

Design Review Board

Official Agenda



AGENDA

DESIGN REVIEW BOARD – URBAN DESIGN PANEL

AGENDA

Regular Meeting

May 5, 2022

4:00 PM

Meeting Location

The City of Greenville Design Review Board – Urban Design Panel will hold an in-person Public Hearing for the following items on **Thursday, May 5, 2022 at 4:00 PM at the Greenville Convention Center at 1 Exposition Drive**. Those wishing to provide comment on an item may either provide written comment to staff or attend the in-person meeting.

Citizens may also view the meeting at the following web address:

[HTTPS://WWW.GREENILLES.COV/1694/ONLINE-MEETINGS](https://www.greenillesc.gov/1694/online-meetings)

1. Call to Order
2. Roll Call
3. Welcome and Opening Remarks from the Chair
4. Approval of Minutes – April 7, 2022 Regular Meeting
5. Call for Public Notice Affidavit from Applicants
6. Acceptance of Agenda

7. Conflict of Interest Statement

8. Old Business

A. NONE

9. New Business (public hearing)

A. CA 22-275

Application by BEN SETLOCK / BRICKTOP'S for a CERTIFICATE OF APPROPRIATENESS for façade upfit at 1 North Main Street (TM# 0001000200205).

Documents:

[22-0275 AGENDA POSTING 1 NORTH MAIN STREET.PDF](#)

"

B. CA 22-276

Application by BRAD ECKLUND for a CERTIFICATE OF APPROPRIATENESS for material change to 90 Payne Street "Merrill Gardens" (TM# 0056000700200).

Documents:

[22-0276 AGENDA POSTING 90 PAYNE STREET.PDF](#)

"

10. Advice and Comment (Not a Public Hearing)

A. NONE

11. Informal Review (Not a Public Hearing)

A. MD-22-283

Application by Parke Lammerts/Arris Greenville, LLC for a MULTI-FAMILY DEVELOPMENT on approximately 15.415 acres located at HAYWOOD ROAD AND TRANSIT DRIVE for 252 units. ("The Abbey") (TM# 0259000100600, 0259000100602, 0259000100603, 0259000100604, 0259000100605)

B. MD-22-124

Application by Graycliff Capital Partners, LLC for a MULTI-FAMILY DEVELOPMENT on approximately 10.31 acre located at N. PLEASANTBURG DRIVE AND LOWNDES HILL ROAD for 206 apartment units. ("Encore Lowndes Hill") (TM# 0282000201300, 0282000201400, 0282000201401)

12. Other Business (Not a Public Hearing)

A. Staff updates on current planning projects

13. Adjournment

You are invited to review documents relating to these applications before the public hearing. Application materials are posted online at <http://www.greenville.gov/dr/plan>. You may contact the Planning Office at (864) 467-4476 for more information. Application materials are subject to change.

You will have the opportunity to voice your comments at the public hearing. Each speaker is limited to 3 minutes. Repetitive statements should be avoided; individuals sharing similar concerns are encouraged to appoint a spokesperson to represent their group. Alternatively, you may submit written comments to: Planning & Development Office, PO Box 2207, Greenville, SC 29602, by fax at (864) 467-4510, or by email at planning@greenville.gov.

Written comments must be received by 2PM Monday before the hearing in order to be given adequate time for consideration by the Board before the hearing. Comments received after 2PM Monday will be provided to the Board at the hearing. Please reference the application number and include your name and address on all correspondence. All comments will be made part of the public record.

In some cases the applicant may be required, as part of the application process, to hold a neighborhood meeting before the application is heard by the Board. Property owners within 500' of the application site would then be notified by mail. A property owner that directly abuts the proposed project or owners of 20% of parcels within 500' may also request a meeting. Contact the Planning and Development Office for further instructions.'

Procedure for Public Comment during Meeting

1. The Design Review Board Chair will read through each agenda item and call for a list of names who wish to speak during public comment. The public shall communicate directly with the Planning Staff Liaison if they wish to speak on the specific agenda item.

2. The Planning Staff Liaison will take a list of names, which will be called in order at the time of the specific agenda item, to provide public comment.
3. The Planning Staff Liaison will communicate directly with the public during the public portion of each item to provide comments on the specific agenda item.
4. Each member of the public shall provide their comments when their name is called by the Planning Staff Liaison.
5. Each member of the public will have 3 minutes to speak on the specific agenda item. When speaking:
 - Begin by clearly stating your name and address for the record. Please spell your name if it is prone to be misspelled. The 3-minute timer will start after you provide this information.
 - Please do not repeat information already presented by someone else and avoid off-topic statements. Those who wish to share similar concerns are encouraged to appoint a spokesperson to speak on behalf of the group.
 - Direct all comments and questions to the chairperson, who will respond or direct the question to the appropriate party for response.
6. The Planning Staff Liaison will continue through the list of names until all members of the public who wished to speak on the specific agenda item have had an opportunity.
7. Once all names are called and public comment provided, the public portion for that specific agenda item will be closed.



**Planning Staff Report to
Design Review Board - Urban
April 27, 2022**
for the May 5, 2022 Public Hearing

Docket Number: CA 22-275
Applicant: Ben Setlock, BrickTop's
Property Owner: Greenville ONE, LLC
Property Location: 1 North Main Street
Tax Map Number: 0001000200205
Acreage: 1.06
Zoning: C-4, Central Business District; Halprin District
Proposal: Addition of outdoor dining space
Staff Recommendation: **Approve with conditions**

Applicable Sections of the City of Greenville Code of Ordinances:

Sec. 19-2.3.8 Certificate of Appropriateness

Project Overview:

The applicant proposes replacing the previous retail space with a full service dine-in restaurant with indoor and outdoor seating. The renovation does not alter the footprint of the building or any entrance locations at the ground level on Main Street, but does incorporate new outdoor dining in the building transition area along Main and West Washington Streets. The proposed interior upfits are limited to interior walls, finishes, and utilities and do not impact the exterior facades.

The project is located in the C-4, Halprin District.

The full scope of work is as follows:

- Remove existing interior walls, millwork and finishes, and utilities
- Construct new interior walls, finishes, utilities, lighting, millwork, and seating areas
- Install new kitchen equipment
- Add new finishes to existing canopies (sized to match existing conditions)
- Add new movable planters along edge of new outdoor dining area
- Install seasonal drop-down patio screens
- Install new egress doors for outdoor dining area
- Add outdoor dining furniture
- Install lighting for outdoor dining area

Staff Analysis:

- PUB 2-5 – Public Pedestrian Realm

- Staff notes that a sidewalk encroachment permit should be secured for the location of tables, chairs, planter, or any furnishings which may intrude on the public right-of-way prior to installation.
- Staff notes that special consideration should be given to the final selection of partial height walls, movable planters, and plant material to maintain a positive appearance from the public realm, and to maintain positive activation of the pedestrian realm.
- PUB 6 – Building Transition Zone
 - Per PUB 6.1, outdoor seating and dining are encouraged in the areas directly adjacent to the building. Staff recommends acceptance of this use but notes that outdoor dining shall not interfere from the pedestrian experience along Main or W. Washington Streets.
- PRI 3 – Entry
 - The incorporation of planters, walls, and defined seating areas serves to clearly identify the primary entrance into the building per section PRI 3.3.
- PRI 4 – Activated Ground Floor
 - The placement of the outdoor dining serves to activate the ground floor of the building and the building transition zone on both facades.
- PRI 6 - Materials
 - Staff finds that the incorporation of the wood composite cladding is consistent with section PRI 6 and will serve to add warmth to the exterior space.
 - Given the adjacency to highly trafficked pedestrian areas, staff would like to emphasize the importance of the durability of the screen product being selected.
- PRI 7 – Architectural Lighting
 - The applicant proposes the addition of linear lighting to illuminate the outdoor seating while avoiding adverse impacts on the adjacent properties and pedestrian areas in compliance with section PRI 7.2.
- PRI 8 – Private Outdoor Spaces
 - Staff finds that the design and organization of the outdoor dining area serves to enhance the design of the building at the street level in accordance with section PRI 8.3.

Conclusion:

Overall, staff finds the request consistent with the character of the district and finds the proposed additions to be improvements to the pedestrian realm along Main and W. Washington Streets. Given the project location within the Halprin District, special consideration should be given to the quality of materials used in the upfit. Staff notes that close attention should be given to the selection of the site furnishings, movable planters, and retractable screen product to ensure appropriate quality and durability.

Staff recommends approval with the following conditions:

1. **Prior to issuance of the encroachment permit the exact property line shall be determined and all items outside of that property line and within the city's r/w shall be subject to the requirements of the encroachment permit as reviewed by the PRT Department. It is understood that the arrangement of the tables, chairs, and planters or any items within the r/w is conceptual in nature and that final details shall be coordinated with the city's PRT Department prior to the issuance of an encroachment permit. This CA approval shall in no way be construed as approval for the encroachment permit.**
2. **Encroachment permits are renewed annually and must be obtained by the owner/tenant on an annual basis.**

3. Final plant material selected for the movable planters shall conform with section PUB 5 of the Downtown Design Guidelines and the height of the partial height walls or combined height of the proposed planters and plant material shall not exceed encroachment conditions. The applicant shall work with staff for approval of final product selection for these items.
4. The removal of the existing artwork on the exterior wall facing Main Street shall be coordinated with the city's Cultural Arts Manager and the Art in Public Places Commission.
5. Any new signage for the tenants will require a separate sign permit and Certificate of Appropriateness and must adhere to the sign regulations and Appendix J.
6. Per the recent Section 19-1.11 LMO Text Amendment, an Affidavit of Substantial Compliance must be signed and notarized by the property owner prior to the issuance of the Certificate of Conformity.
7. This CA is considered a specific site development plan. As such, the CA issued for this project shall be subject to Land Management Ordinance Section 19-2.2.14 *Lapse of approval/vested rights* and the Vested Rights Act, Article 11, of Chapter 29, Title 6, of the Code of Laws of South Carolina, 1976 (S.C. Code §§ 6-29-1510 et seq.). The CA shall be valid for a period of two years from the date of approval by the Board. The Vested Right shall be granted up to five annual extensions upon a written request for an extension that must be received from the applicant at least sixty (60) days before expiration, unless any change or amendment to the land development ordinance or regulations of the City of Greenville's Code of Ordinances were to be amended that would no longer allow execution of the site-specific development plan. At any time during the two-year period or any subsequent Vested Rights extensions, the applicant may be granted a building permit from the City Building Official. Should the CA expire at any time prior to the application for a building permit, such permit shall not be issued until a current CA is provided.

Relevant Design Guidelines:

PUB 2. PEDESTRIAN REALM

- 2.1 The building transition zone should be at least 4 feet and should not encroach upon the minimum sidewalk width. Consult PUB 6. Building Transition Zone for additional guidelines.
- 2.2 The sidewalk zone should accommodate a continuous path of travel of at least 6 feet. In situations where it is not feasible to provide all pedestrian realm zones, prioritize the sidewalk zone. Consult PUB 3. Sidewalk Zone for additional guidelines.

PUB 5. PLANTING ZONE

- 5.1 Hire a licensed professional landscape architect to address the project's plant health and appropriateness.
- 5.5 Encourage selection of species native to the South Carolina Piedmont region that have been proven to thrive in an urban condition.
- 5.7 Prioritize species with rich human interest. The Downtown Streetscape Master Plan provides tree selections for streetscapes in downtown.

PUB 6. BUILDING TRANSITION ZONE

- 6.1 Outdoor seating, café, dining, planting and retail displays are encouraged in the building transition area.
- 6.2 The building transition zone abuts a building's façade and is at grade with the adjacent sidewalk.

- 6.3 Scale the building transition zone so that it does not encroach upon the minimum sidewalk width. Consult PUB 2. Pedestrian Realm for additional guidelines.
- 6.4 When establishing café seating in the building transition zone, consider separating seating areas from the sidewalk zone with movable barriers. For fencing barriers, use free-standing fencing constructed of durable materials like iron or wood. Fencing barriers should be between 30-40 inches high.
- 6.5 Seating area barriers may be composed exclusively of planters, provided that they contain well maintained, living plants. Planters must be between 25-30 inches high, though the plants within may exceed this height.
- 6.6 Select furnishings comprised of durable and lasting materials, including metal and finished wood. Emphasize lightweight and smaller furnishings that can be easily moved to maximize layout flexibility and user customization.
- 6.8 Maintain access to the building entry. The building entry must be kept clear of obstructions.
- 6.9 Outdoor dining space located on corner lots shall not obstruct the sight distance triangle.
- 6.10 Business owner or outdoor dining operator shall maintain the outdoor dining space so that it is clean and tidy when not in use.
- 6.11 Outdoor dining furniture or appliances are not allowed to be stored in the public right of way.

PRI 3. ENTRY

- 3.1 Locate entrances at active locations that enable and promote pedestrian walkability and connectivity.
- 3.2 All public entrances that face the public realm must be designed to accommodate all levels of physical ability.
- 3.3 Enhance the design of entry areas with materials, architectural and landscape features such as outdoor gathering spaces, coverings, lighting and landscape elements so that they are clearly identified and will attract and guide pedestrians.
- 3.4 Entry glass must be highly transparent using non-reflective and minimally tinted glass.
- 3.5 Entries must be designed to pronounce their purpose as a destination while not overwhelming the scale, massing and articulation of the rest of the building.
- 3.7 For buildings on corner lots, locate entrances at the corner to anchor the intersection and create a seamless transition that captures pedestrian activity from both street frontages..

PRI 4. ACTIVATED GROUND FLOOR

- 4.1 Maximize the transparency of the ground floor to the street level to allow views of the use and activity within the building.
- 4.2 Use of darkly tinted and/or reflective glass is prohibited.
- 4.4 Maintain the simplicity of access to commercial and retail areas to avoid unnecessary or circuitous travel.
- 4.5 Provide ground floor design elements that promote pedestrian activity; for example, windows, retail displays, art, landscaping, canopy covering, etc.
- 4.6 Ensure that landscaping does not create a visual barrier between the building's interior and pedestrians.
- 4.8 Corner buildings have at least two façades visibly exposed to the street and should be designed to respond to their more prominent locations.

PRI 6. MATERIALITY

- 6.1 Use high quality materials that are chosen to be compatible with their surrounding context but also to elevate the existing diversity and character of the area.
- 6.2 Materials used within proximity to pedestrian areas must have the durability to withstand heightened activity and wear.

6.4 Use materials that convey a sense of human scale; that is, meant to be experienced by the pedestrian, not vehicular, user.

6.5 Use authentic materials. When this is not possible, ensure that synthetic materials realistically convey the materials that they represent.

6.6 While excessive uniformity and monotony are discouraged, variations in materials and colors must be composed and balanced to create a unified whole.

6.7 Use light colored (high albedo) materials for roofing and landscaping to reflect radiant heat.

PRI 7. ARCHITECTURAL LIGHTING

7.2 Enhance building architecture with lighting. Incorporate accent lighting into the building design to create visual interest, depth and shadows. Ensure lighting does not have an adverse impact on adjacent properties and pedestrian areas.

7.3 Use shielded fixture housings to direct light distribution to pedestrian areas and to prevent trespass onto adjacent properties. For complex projects, lighting specialists should be retained to ensure light pollution will not adversely affect adjacent properties.

7.4 Lighting of building façades is discouraged if the lighting contributes to light pollution and off-site trespass. In-ground up lighting should not shine directly into pedestrian areas.

7.5 Safety and security of the building and surrounding area should be enhanced through lighting design.

7.6 Light source color selection must be considered so that lighting is not harsh and unpleasant or incompatible with other area lighting sources.

PRI 8. PRIVATE OUTDOOR SPACES

8.1 Thoughtfully locate building equipment and utilities. Avoid placing building elements that will be interpreted as clutter, such as utilities, in private outdoor spaces that are within the public view including spaces that are at ground-level as well as rooftop areas.

8.3 Private outdoor spaces must complement and enhance the design of the building(s) to which they are associated.



**APPLICATION FOR
CERTIFICATE OF APPROPRIATENESS
URBAN DESIGN PANEL**

Contact Planning & Development:
(864) 467-4476

Office Use Only:

Application# _____ Fees Paid _____
Date Received _____ Accepted By _____
Date Complete _____ App Deny Conditions _____

APPLICANT/OWNER INFORMATION

*Indicates Required Field

APPLICANT

PROPERTY OWNER

*Name:	Ben Setlock, RA (Representative for BrickTop's)	Greenville ONE, LLC
*Title:	Architectural Project Manager	Robert Hughes, President
*Address:	4031 Aspen Grove Drive	PO Box 2567, Greenville, SC 29602
*Phone:	Office: 615-370-1779 / Direct: 629-203-7361	864-233-2580 x23
*Email:	bsetlock@dandinc.us	rhughes@hughesdevelopment.com

PROPERTY INFORMATION

*STREET ADDRESS 1 North Main Street, Greenville, SC _____

*TAX MAP #(S) _____

*SPECIAL DISTRICT _____

DESCRIPTION OF REQUEST

To include scope of project and justification or response to specific guidelines and special conditions.

We are proposing to replace the existing Brooks Brothers retail store located at 1 North Main Street, Suite H, Greenville, SC 29601 to be converted into a full service dine-in restaurant with indoor and outdoor seating.

The SOW of this project will consist of the following:

Demolition - Of the exiting Brooks Brothers interior walls, millwork and finishes, and utilities.

New Interior Work: New interior walls, finishes, utilities, lighting, millwork, and equipment.

New Exterior Work: New canopy finishes (size to match exiting conditions), new movable planter, seasonal drop down patio screens, egress doors, furniture and lighting.

INSTRUCTIONS

1. Preliminary meeting with staff is required prior to application submittal.
2. All applications and fees (made payable to the City of Greenville) for Certificate of Appropriateness must be received by the Planning & Development office no later than 2:00 p.m. on the date reflected on the attached schedule.

A. URBAN DESIGN PANEL	Site plan review	\$300.00
	Architectural review	\$300.00
B. SIGNS		\$150.00
C. APPLICATION FOR STAFF REVIEW		
Major (all site development activity, roof gardens, decks or accessory structures; or any project that requires consultation with a member of the DRB).		\$100.00
Minor (color change; replacement of windows/doors; additions, deletions or replacement of awnings; re-roofing; and projects that do not involve structural alterations, increase/decrease in window/door area or removal of architectural features).		\$ 50.00
D. INFORMAL REVIEW		
E. MODIFICATION TO AN APPROVED PROJECT		
Major (requires review by DRB)		½ original fee
Minor (requires review by staff)		\$ 50.00
F. REVISIONS (multiple required revisions may be subject to additional fees).		
3. The staff will review the application for “sufficiency” pursuant to Section 19-2.2.6, Determination of Sufficiency and will contact the applicant to correct any deficiencies, which must be corrected prior to placing the application on the Design Review Board agenda.
4. If the application requires review by the Urban Design Panel, public hearing signs must be posted on the subject property at least 15 days (but not more than 18 days) prior to the scheduled hearing date.
5. You must attach one (1) complete set of scaled drawings of the property at an appropriate scale such as 1”=20’ or ¼” = 1’, etc. Although construction drawings are not required, applicants for final approval should be able to provide construction drawings at the Design Review Board’s (DRB) request. The Board may request additional information at any time to fully understand the proposal. Items submitted to the Board become the property of the City and will not be returned.

SITE PLAN REVIEW

- Site Plan Drawings (indicating footprint of existing buildings, proposed building, proposed exterior elements, demolition of existing site features, floor plan, proposed exterior equipment, etc.).
- Massing Studies and Images (images shall be high resolution and should depict adjacent building, proposed building massing from various viewpoints, initial architectural details, photos of surroundings to review context, etc.).
- Model (physical or digital model that includes the surrounding context with massing only, no texture or articulation is required). ***The contextual model for the DRB boundary can be downloaded here: <https://greenvillesc.sharefile.com/d-s4197849a61943358>, and is provided as a .skp file. Data is updated monthly.***

ARCHITECTURAL REVIEW

- Elevation Drawings of all Exterior Sides (indicate proposed materials, existing grade and proposed grade, proposed mechanical equipment, outdoor lighting fixtures, landscape drawings, design and location of signage, removal of existing building elements, addition to existing building, a streetscape elevation of building adjacent to and across the street from the site, including the proposed building).
- Sections (include vertical dimensions in feet, building sections where significant changes occur in building volume, wall section for review of material relationships).
- Detail Drawings (include material and methods of each type of construction affecting the exterior appearance of the structure, samples, brochures and photographs of all exterior finishes, windows, fixtures, lighting and signage).
- Renderings (include perspective drawings, including views from pedestrian and public realm).
- Model (physical or digital model that includes the surrounding context and should include accurate scale, architectural detail to the extent that it describes the design intent, proposed textures and proposed signage).

For more detail on these submittal requirements, please refer to the **Greenville Downtown Design Guidelines**, adopted May 2017.

Please verify that all required information is reflected on the plan(s). Please submit one (1) paper copy and one (1) electronic version of the plan(s).

6. Please read carefully:

The applicant and property owner affirm that all information submitted with this application, including any/all supplemental information, is true and correct to the best of their knowledge and they have provided full disclosure of the relevant facts.

In addition, the applicant affirms that the applicant or someone acting on the applicant's behalf has made a reasonable effort to determine whether a deed or other document places one or more restrictions on the property that preclude or impede the intended use and has found no record of such a restriction.

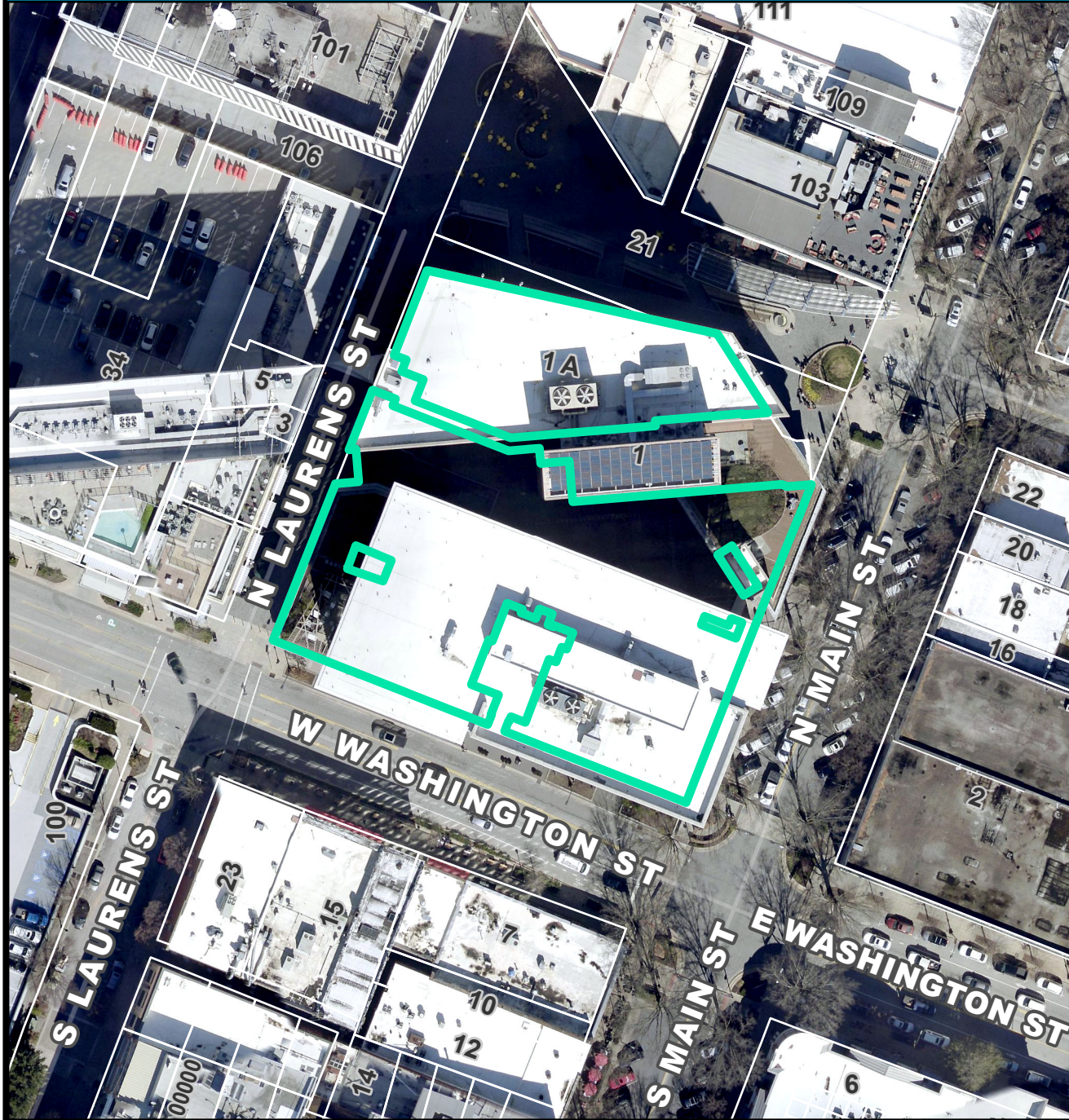
If the Planning & Development office, by separate inquiry, determines that such a restriction exists, it shall notify the applicant. If the applicant does not withdraw or modify the application in a timely manner or act to have the restriction terminated or waived, the Planning & Development office will indicate in its report to the Design Review Board that granting the requested change would not likely result in the benefit the applicant seeks.

7. To that end, the applicant hereby affirms that the tract or parcel of land subject of the attached application is ___ or is not **X** restricted by any recorded covenant that is contrary to, conflicts with or prohibits the requested activity.

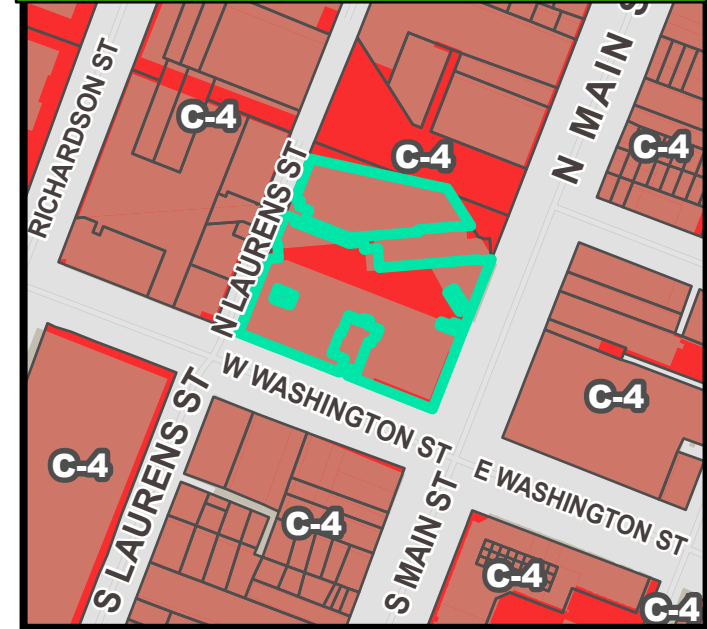
*Signatures	
Applicant	
Date	03-30-2022
Property Owner/Authorized Agent	
Date	3/31/2022
Public Hearing Information	
Public Hearing Signs	

CA 22-275 • 1 NORTH MAIN STREET

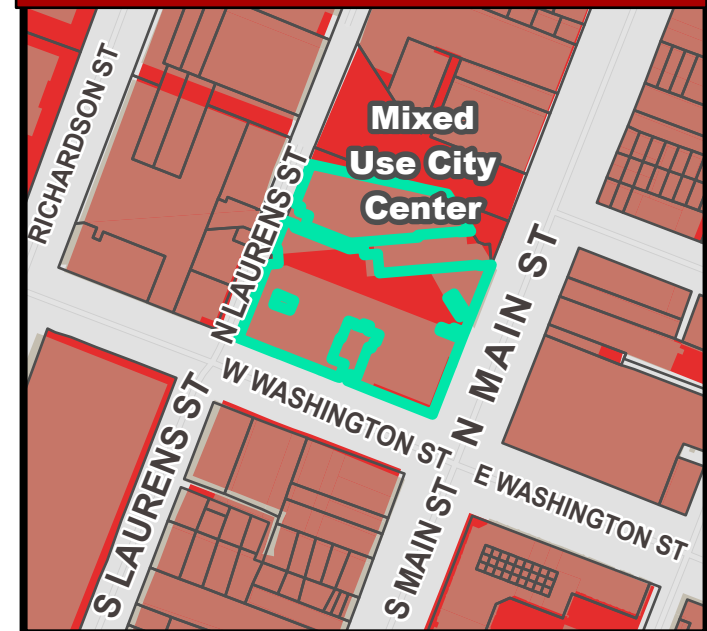
AERIAL VIEW



CURRENT ZONING

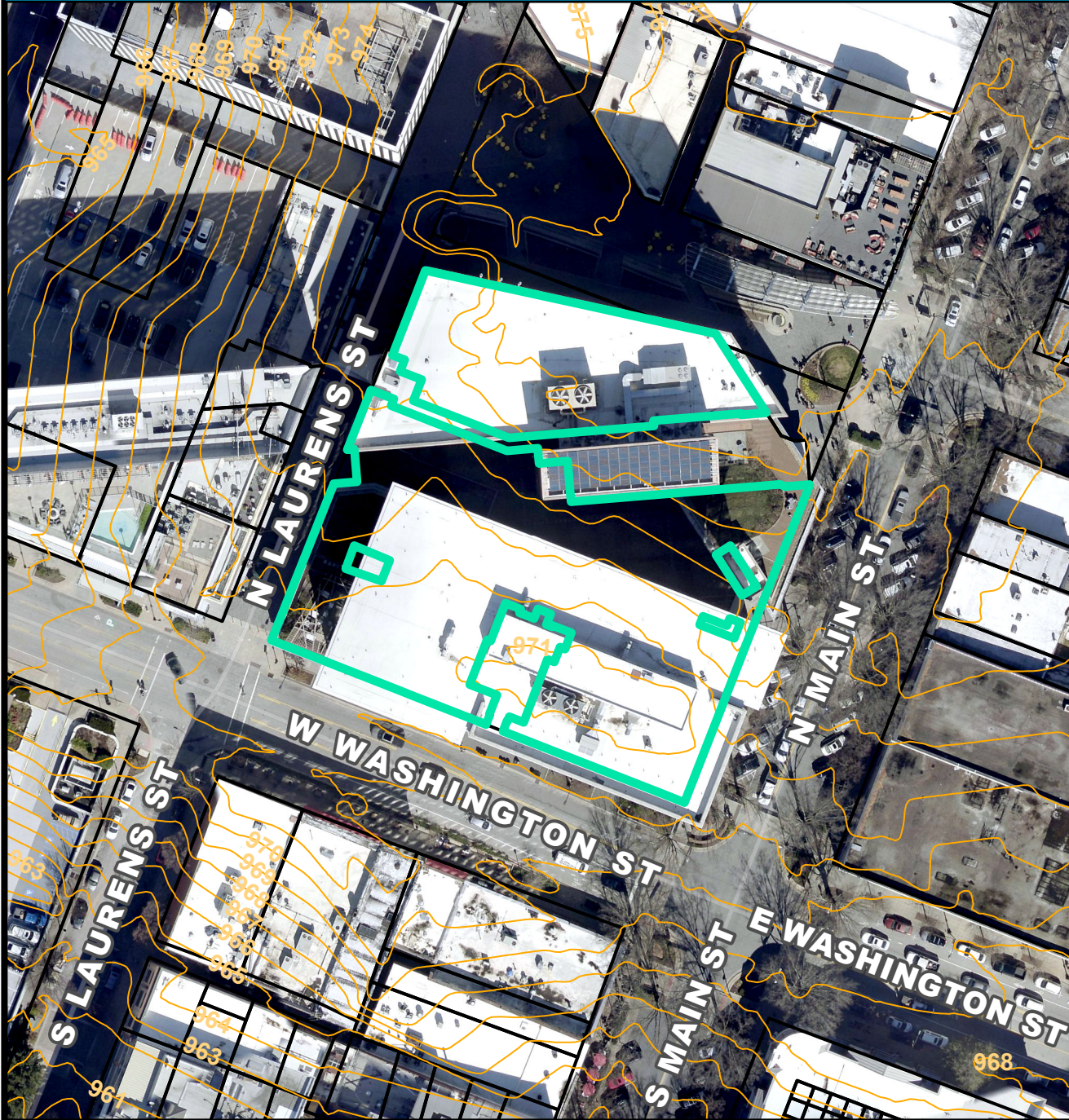


FUTURE LAND USE

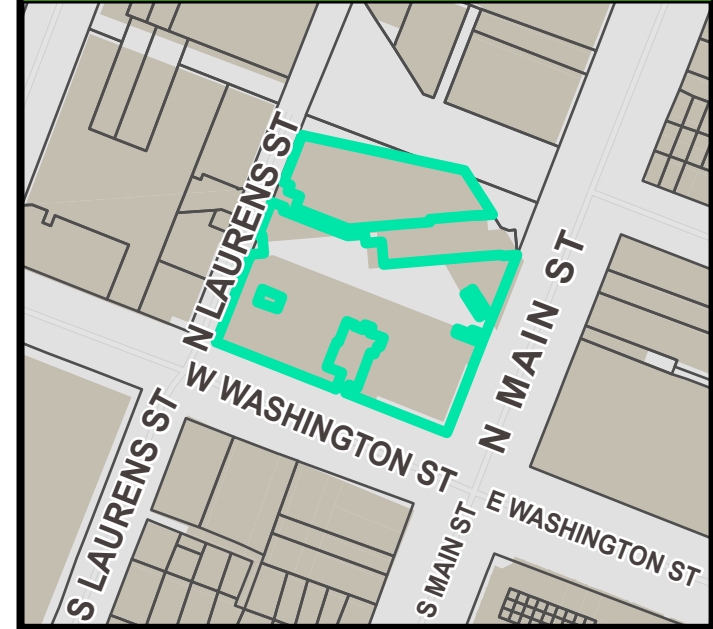


CA 22-275 • 1 NORTH MAIN STREET

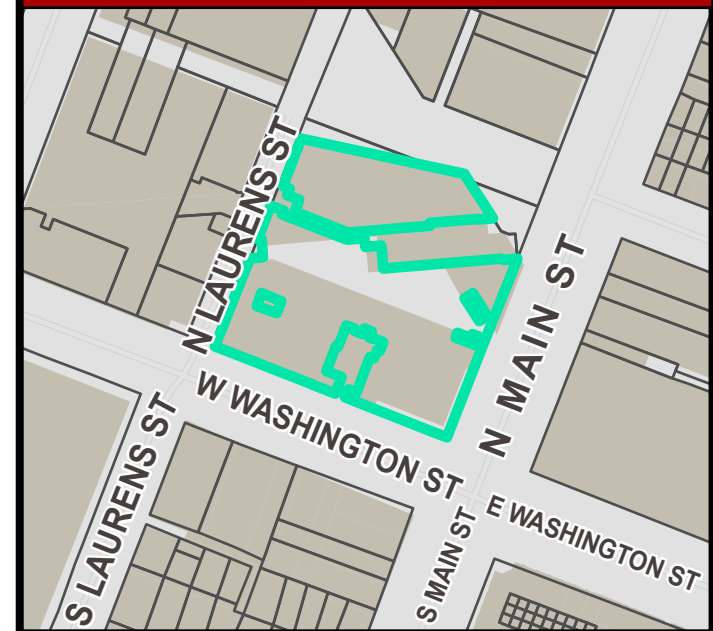
NATURAL / ENVIRONMENTAL FEATURES



SPECIAL EMPHASIS NEIGHBORHOODS



PRESERVATION OVERLAYS



BRICKTOP'S

BRICKTOP'S WEST END RESTAURANT

1 NORTH MAIN STREET, SUITE H
GREENVILLE, SC 29601

SCOPE OF WORK SUMMARY

WE ARE PROPOSING TO REPLACE THE EXISTING BROOKS BROTHERS RETAIL STORE LOCATED AT 1 NORTH MAIN STREET, SUITE H, GREENVILLE, SC 29601 WITH A FULL SERVICE DINE-IN RESTAURANT WITH INDOOR AND OUTDOOR SEATING.

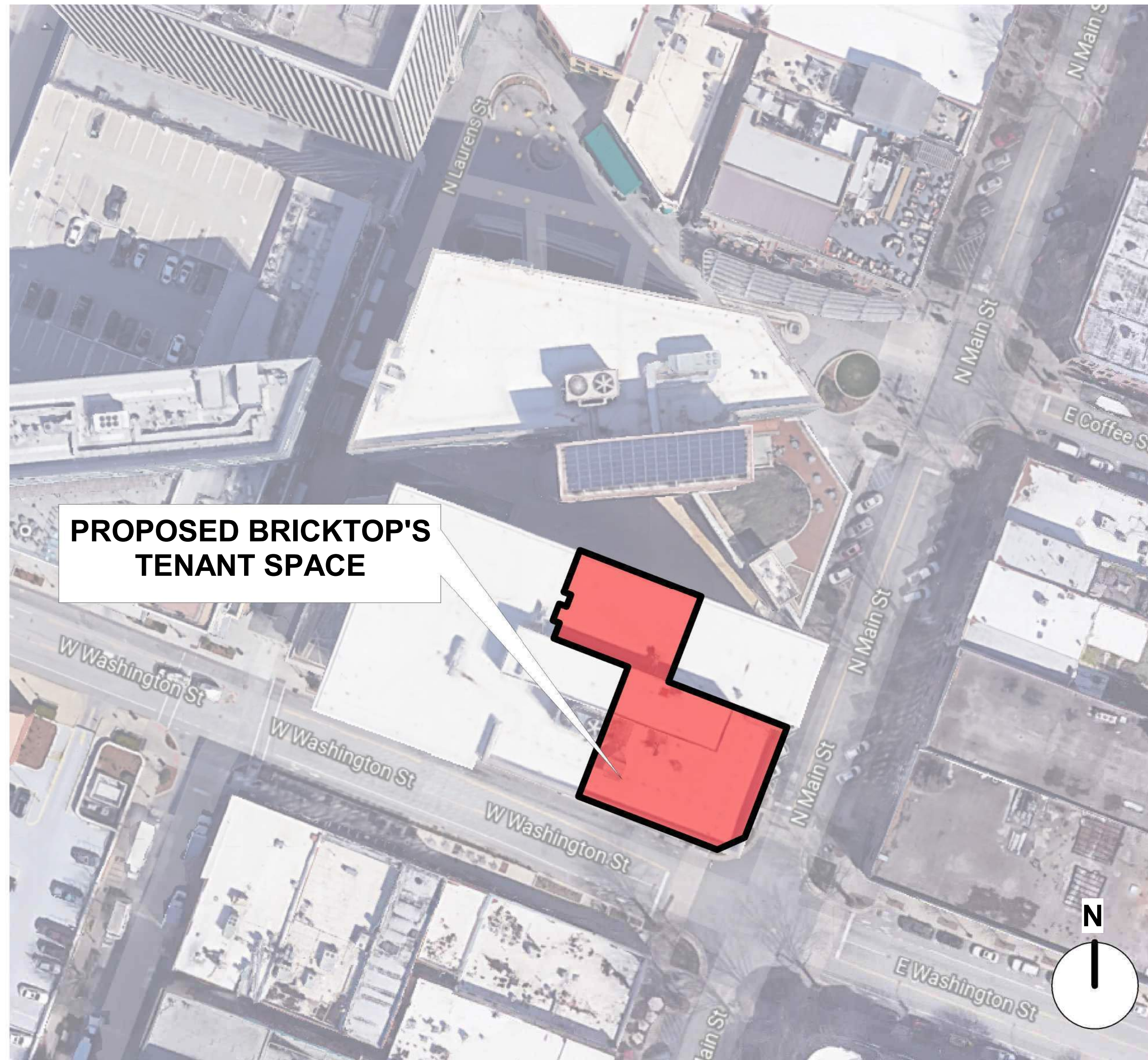
THE SOW OF THIS PROJECT WILL CONSIST OF THE FOLLOWING:

- DEMOLITION - OF THE EXITING BROOKS BROTHERS INTERIOR WALLS, MILLWORK AND FINISHES, AND UTILITIES.
- NEW INTERIOR WORK: NEW INTERIOR WALLS, FINISHES, UTILITIES, LIGHTING, MILLWORK, AND EQUIPMENT.
- NEW EXTERIOR WORK: NEW CANOPY FINISHES (SIZE TO MATCH EXITING CONDITIONS), NEW MOVABLE PLANTER, SEASONAL DROP DOWN PATIO SCREENS, EGRESS DOORS, FURNITURE AND LIGHTING.



VICINITY MAP

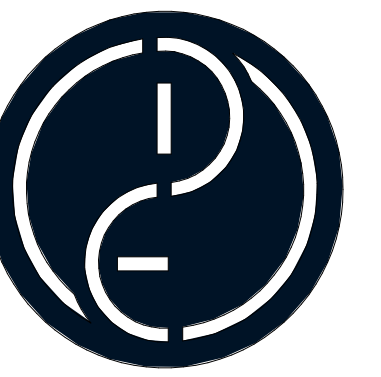
SCALE: 1/2" = 1'-0"



SITE MAP

SCALE: 1/2" = 1'-0"

SHEET INDEX	
SK-1	TITLE SHEET
SK-2	GROUND FLOOR SITE PLAN
SK-3	ELEVATIONS
SK-4	ENLARGED CANOPY & LIGHTING TYPES
SK-5	SITE SECTION
SK-6	DEMOLITION SECTION & DETAILS
SK-7	MASSING STUDY - TENANT SIDEWALK
SK-8	MASSING STUDY - TENANT SIDEWALK
SK-9	MASSING STUDY - ADJACENT SIDEWALK



DESIGN AND
ENGINEERING INC.
ARCHITECTS | CIVIL AND STRUCTURAL ENGINEERS
8405 Westgate Circle Brentwood, TN 37027
Phone: (615) 370-1779 www.dandengr.com

PRELIMINARY
NOT-FOR-CONSTRUCTION

PROJECT NUMBER
670229

BRICKTOP'S
1 NORTH MAIN STREET, SUITE H
GREENVILLE, SC 29601

DRAWING ISSUE		03/30/2022	DATE
DRB SUBMISSION	REVISION DESCRIPTION	NO	

Drawing Title
TITLE SHEET

SK-1



1 SK-2 GROUND FLOOR SITE PLAN
SCALE: 3/16" = 1'-0"

W. WASHINGTON STREET

N. MAIN STREET

KEYNOTES

- A - BUILDING PROPERTY LINE
- B - BUILDING OVERHANG ABOVE
- C - EXISTING MONUMENT & STATUE (SHOWN FOR REFERENCE ONLY)
- D - EXSITING LANDSCAPE
- E - PROPOSED OUTDOOR TENANT DINING AREA
- F - PROPOSED TENANT SIGNAGE (SUSPENDED FROM OVERHANG ABOVE)
- H - EXISTING PUBLIC PARKING (SHOWN FOR REFERENCE ONLY)
- G - PROPOSED (MOVABLE) RAISED PLANTERS WITH LOCAL EVERGREEN VEGETATION TO BE INSTALLED AND MAINTAINED BY BRICKTOPS

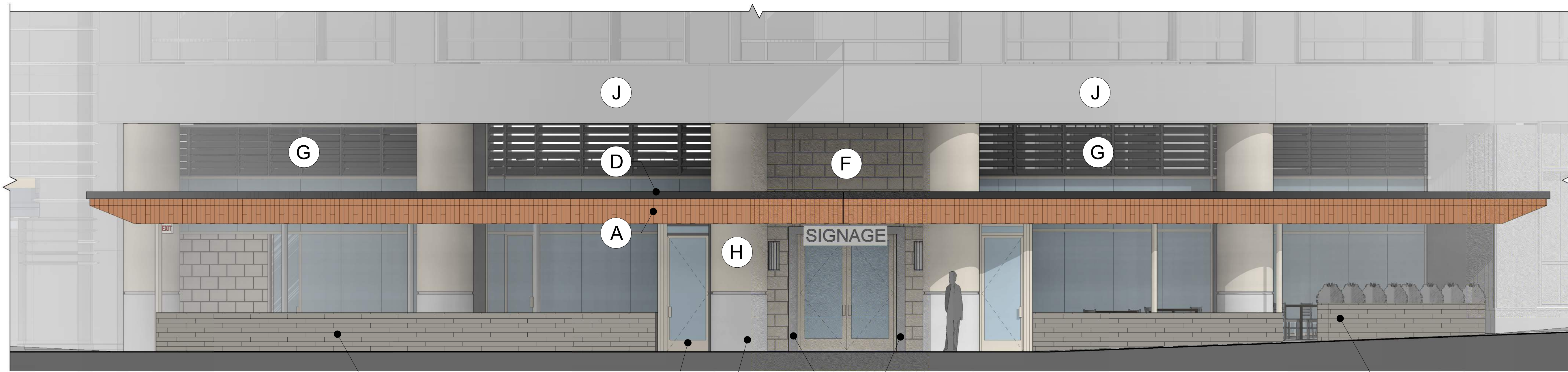
PRELIMINARY
NOT-FOR-CONSTRUCTION

PROJECT NUMBER
670229

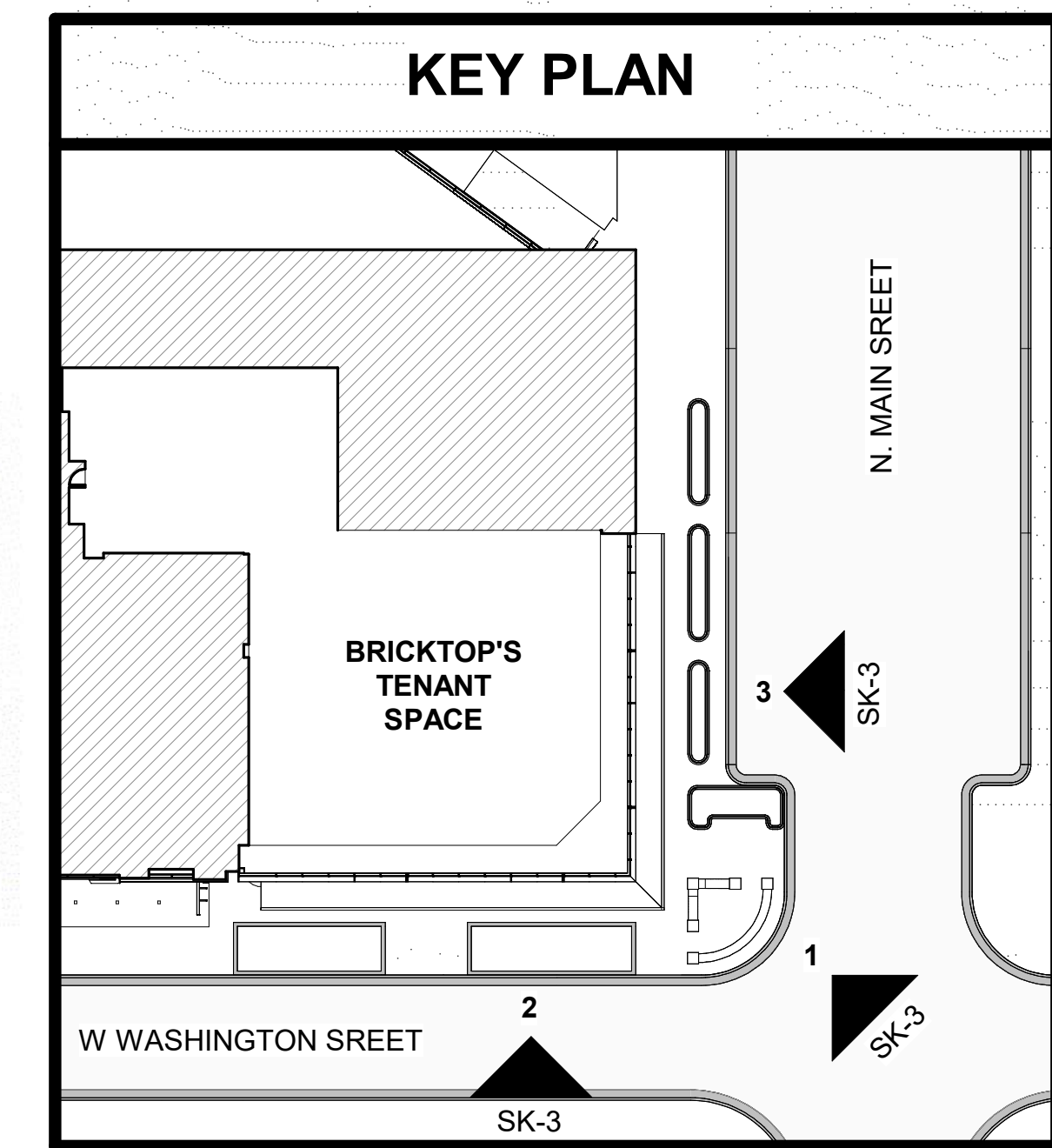
BRICKTOP'S
1 NORTH MAIN STREET, SUITE H
GREENVILLE, SC 29601

DRAWING ISSUE		03/30/2022	DATE
NO	REVISION DESCRIPTION		
1	DRB SUBMISSION		

GROUND FLOOR
SITE PLAN



1 MAIN ENTRANCE
SCALE: 1/4" = 1'-0"



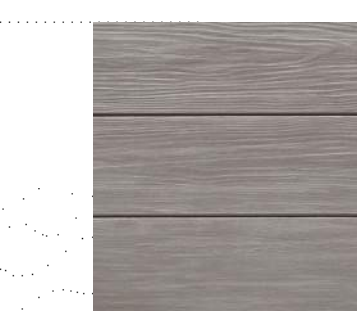
NEW MATERIALS

MATERIAL TAG:

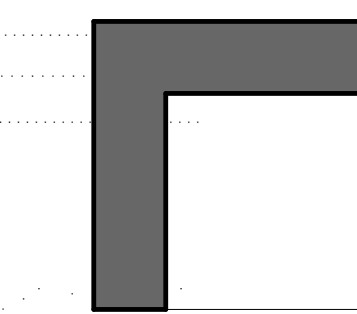
DESCRIPTION:



A: Product: Architectural Cladding and Soffit
Mfg.: Geolam (or equivalent)
Model: Vertigo 5010 (Class A fire rating)
Finish: Teak
Location: Canopy Cladding



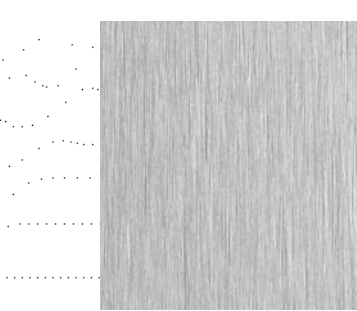
B: Product: Architectural Cladding
Mfg.: Nichiha (or equivalent)
Model: Vintage Wood
Finish: Ash
Location: Movable Planters and partial height walls



C: Product: Seasonal Patio Screens
Mfg.: Maestro Shield (or equivalent)
Model: Roll down exterior seasonal screens
Finish: Charcoal Gray/ Clear Vinyl
Location: Patio Perimeter



D: Product: Coping/ Trim
Finish: Pre-finished Aluminum



E: Product: Storefront Finish
Mfg.: YKK (or equivalent)
Finish: Milled Aluminum

NOTES: The above materials are representative in nature, equivalent materials may be substituted due to material status.

EXISTING MATERIALS

MATERIAL TAG:

DESCRIPTION:

F

Existing shell building block

G

Existing Wall Louvers

H

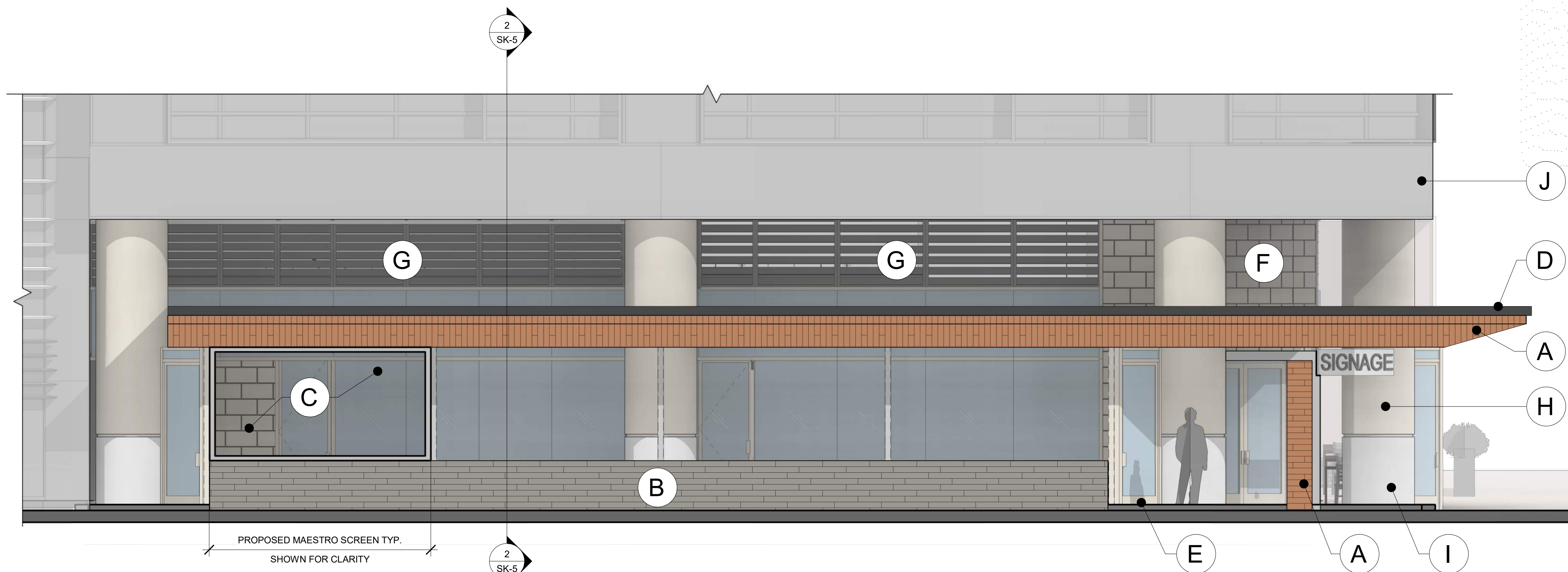
Existing Aluminum Column Wrap - Tan

I

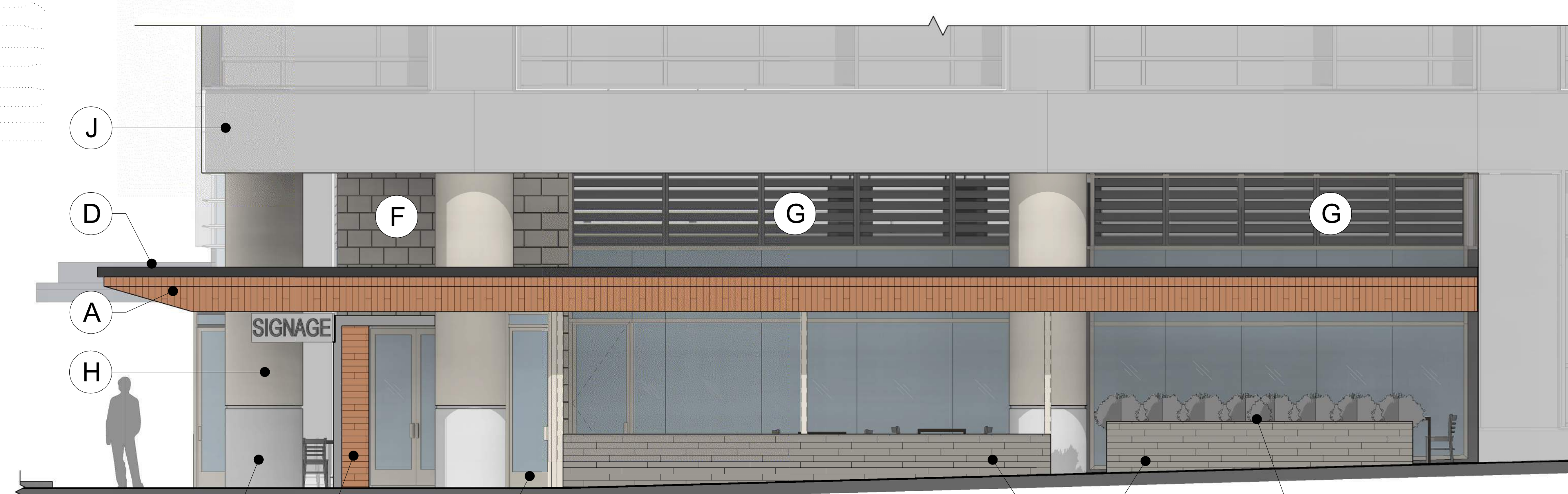
Existing Aluminum Column Wrap - Milled Aluminum

J

Existing Wall Finish - Tan



2 WEST WASHINGTON STREET
SCALE: 1/4" = 1'-0"



3 NORTH MAIN STREET
SCALE: 1/4" = 1'-0"

PROPOSED (MOVABLE) RAISED PLANTERS WITH LOCAL EVERGREEN VEGETATION TO BE INSTALLED AND MAINTAINED BY BRICKTOPS



DESIGN AND
ENGINEERING INC.
ARCHITECTS | CIVIL AND STRUCTURAL ENGINEERS
4645 Westgate Circle Brentwood, TN 37027
Phone: 615.270.1779 | www.designinc.us

PRELIMINARY
NOT-FOR-CONSTRUCTION

PROJECT NUMBER
670229

BRICKTOP'S
1 NORTH MAIN STREET, SUITE H
GREENVILLE, SC 29601

DRAWING ISSUE		DATE
NO	REVISION DESCRIPTION	
1	DRB SUBMISSION	03/30/2022

Drawing Title
EXTERIOR
ELEVATIONS

SK-3

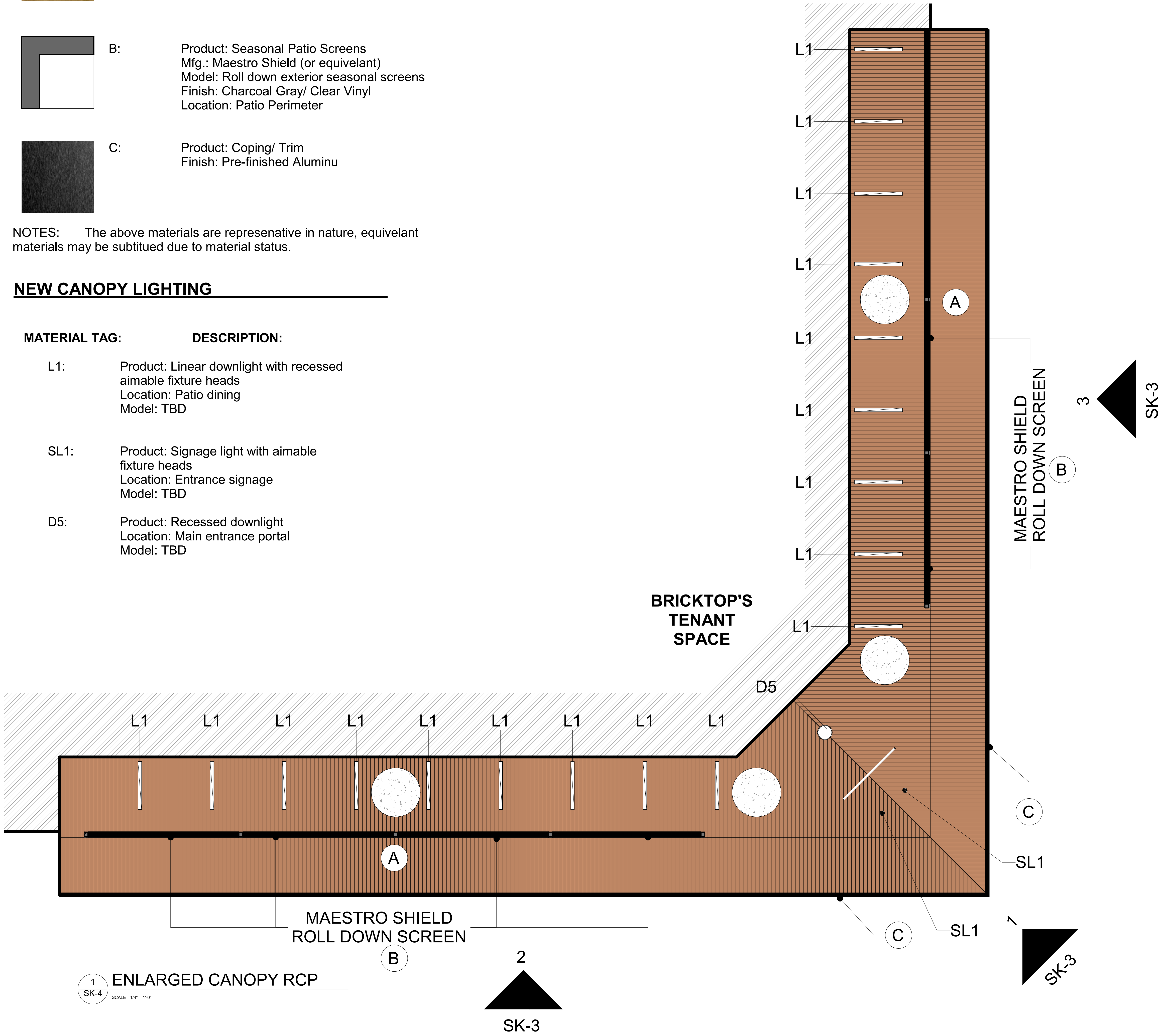
NEW MATERIALS

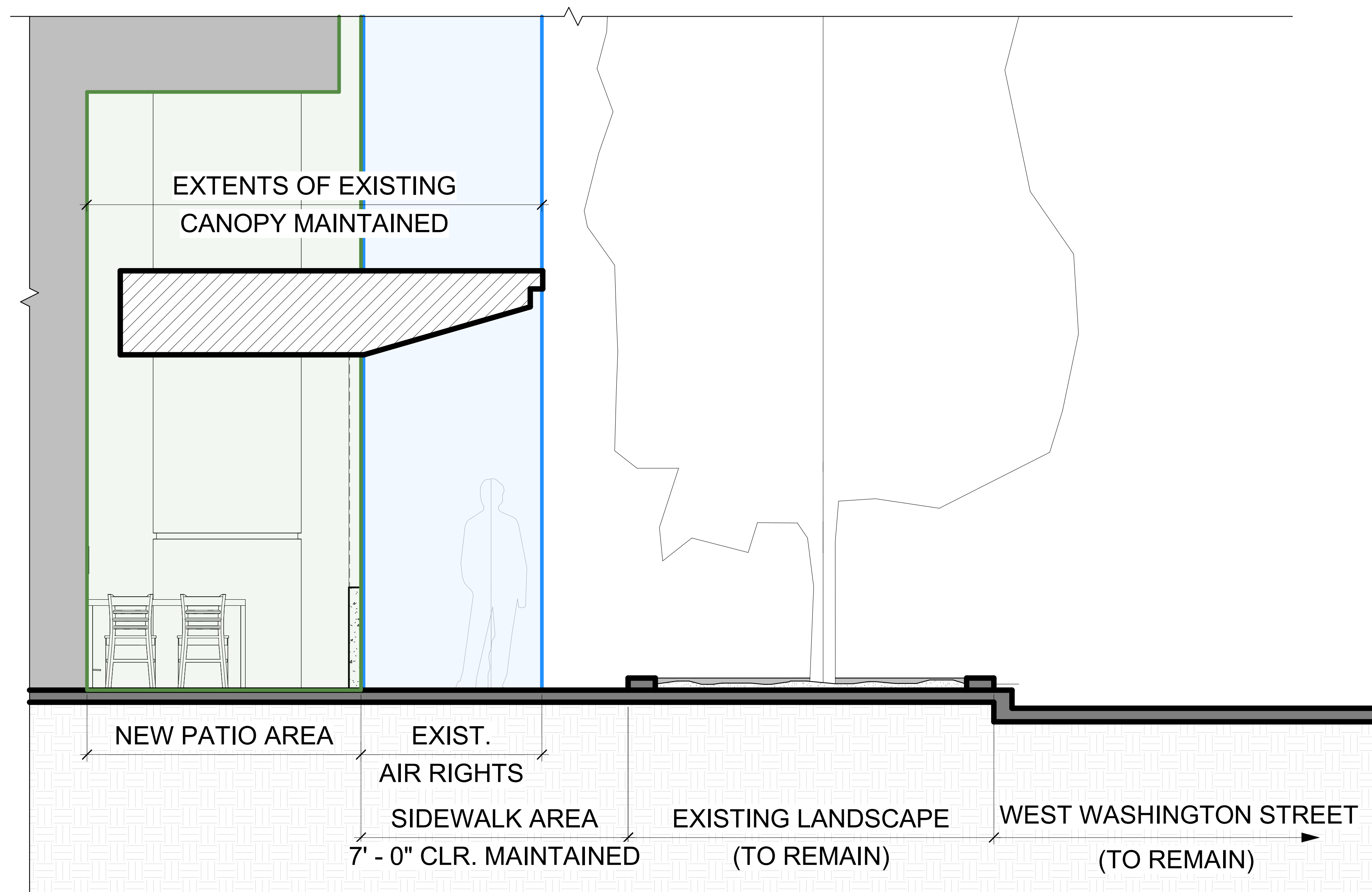
MATERIAL TAG:	DESCRIPTION:
A:	Product: Architectural Cladding and Soffit Mfg.: Geolam (or equivalent) Model: Vertigo 5010 (Class A fire rating) Finish: Teak Location: Canopy Cladding
B:	Product: Seasonal Patio Screens Mfg.: Maestro Shield (or equivalent) Model: Roll down exterior seasonal screens Finish: Charcoal Gray/ Clear Vinyl Location: Patio Perimeter
C:	Product: Coping/ Trim Finish: Pre-finished Aluminu

NOTES: The above materials are representative in nature, equivalent materials may be substituted due to material status.

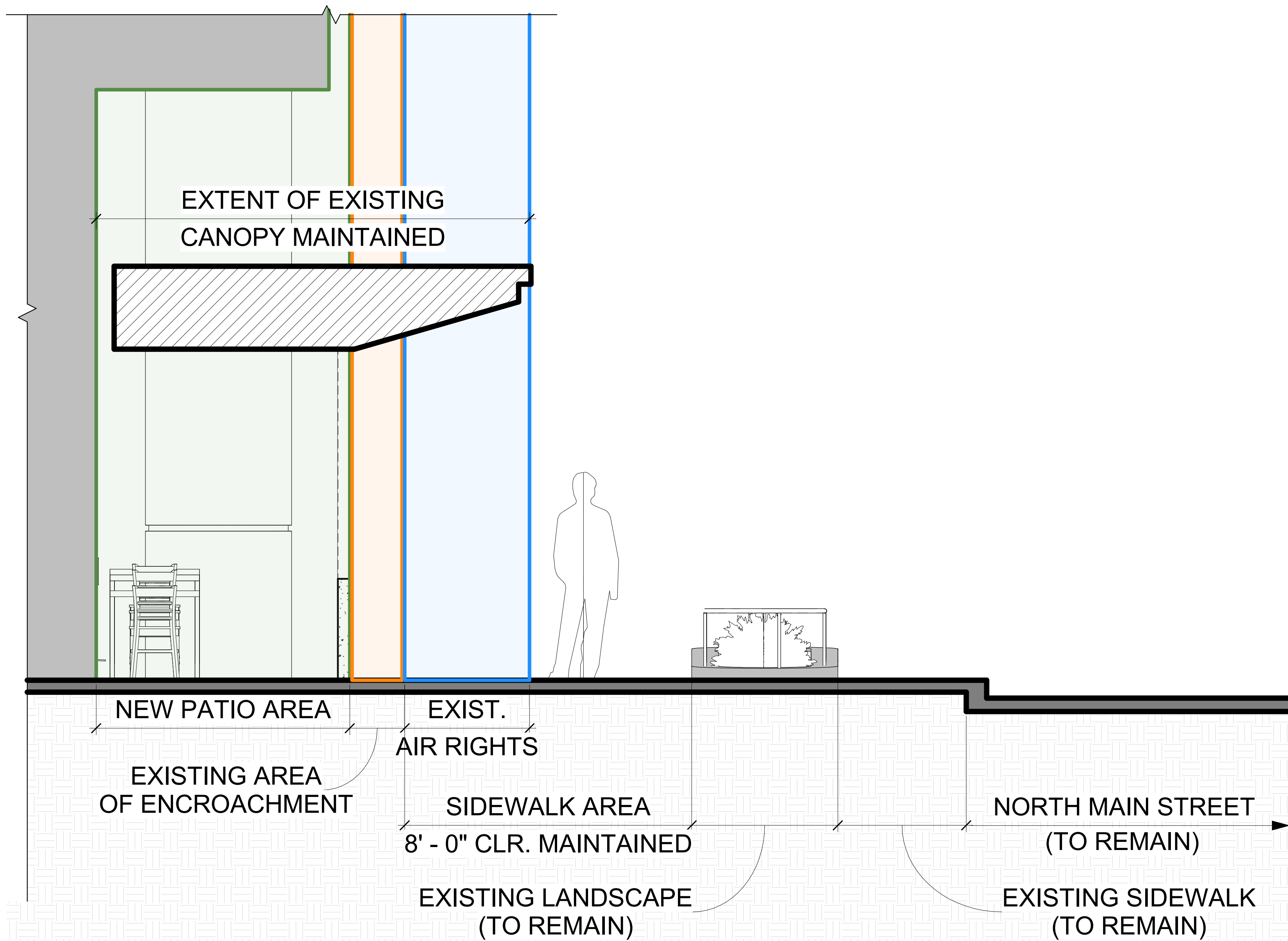
NEW CANOPY LIGHTING

MATERIAL TAG:	DESCRIPTION:
L1:	Product: Linear downlight with recessed aimable fixture heads Location: Patio dining Model: TBD
SL1:	Product: Signage light with aimable fixture heads Location: Entrance signage Model: TBD
D5:	Product: Recessed downlight Location: Main entrance portal Model: TBD

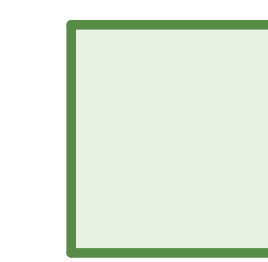




2 SITE SECTION W. WASHINGTON ST.
SK-5 SCALE: 1/2" = 1'-0"

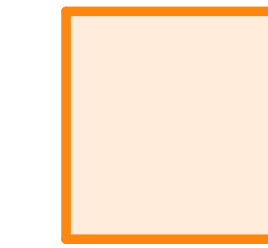


1 SITE SECTION N. MAIN ST.
SK-5 SCALE: 1/2" = 1'-0"



- PATIO AREA:

Patio area inside property line that allows for permanent structures to be built which will include new partial height walls.



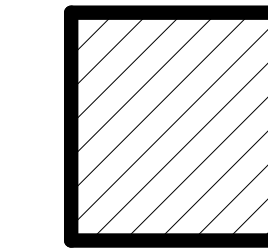
- AREA OF ENCROACHMENT

Area allowed for movable objects to be built such as raised planters, tables, and umbrellas

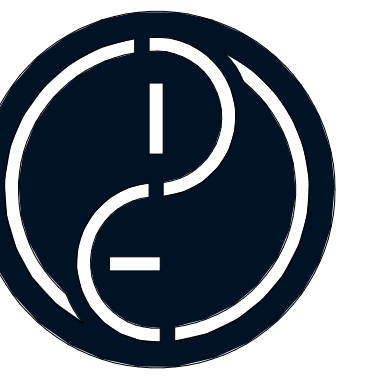


- AIR RIGHTS:

Extents of existing glass canopies, we can build a canopy over the sidewalk in this area that does not touch the ground.



- PROPOSED CANOPY PROFILE



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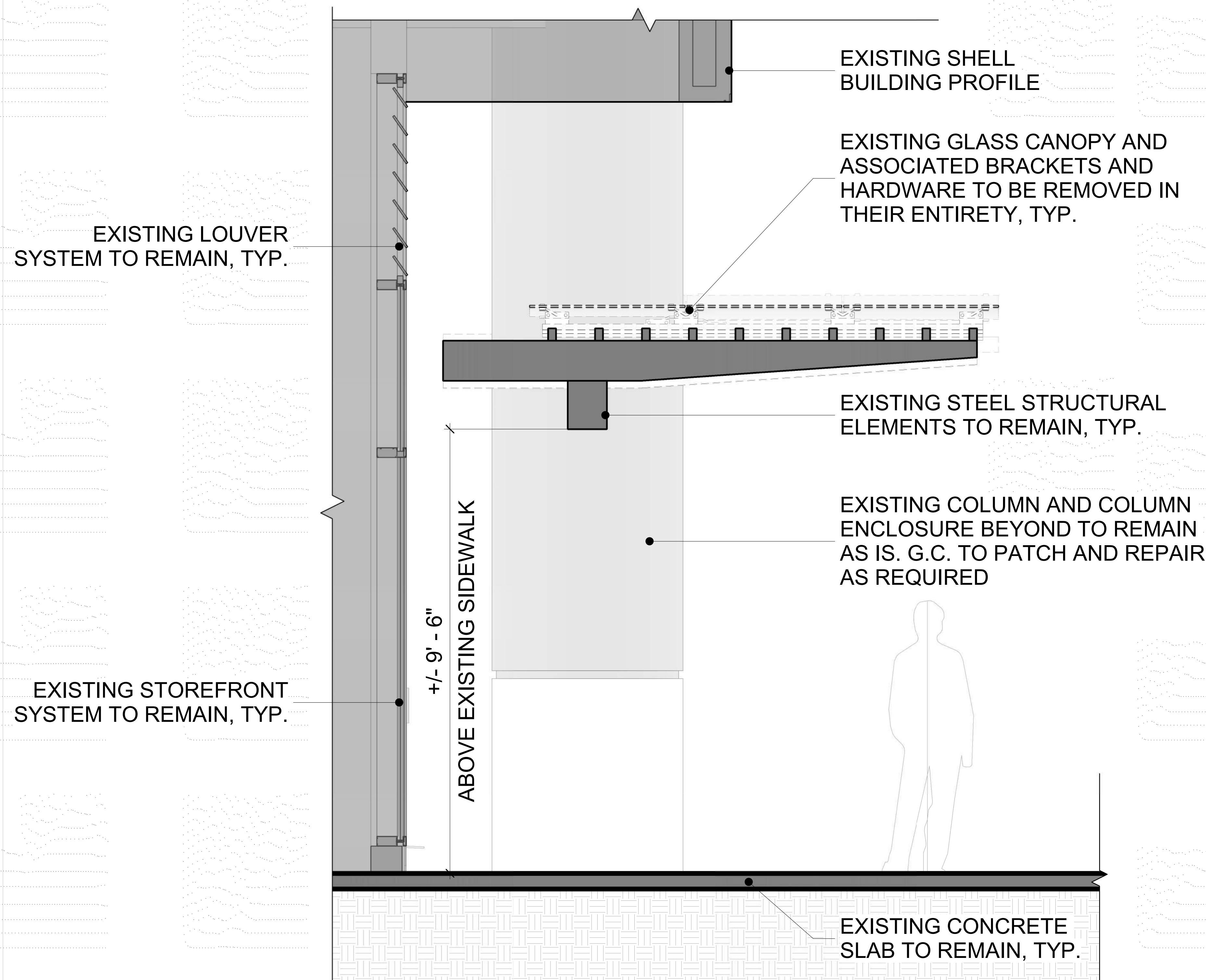
PROJECT NUMBER
670229

BRICKTOP'S
1 NORTH MAIN STREET, SUITE H
GREENVILLE, SC 29601

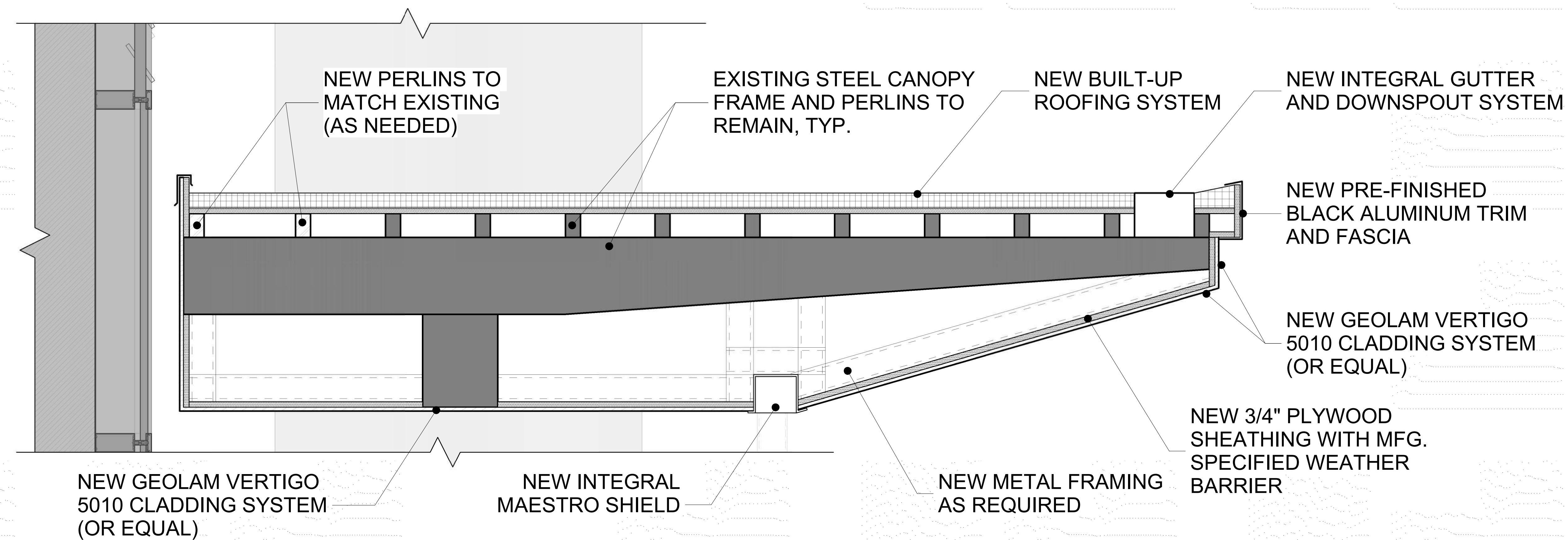
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	DATE	
DRB SUBMISSION		
	REVISION DESCRIPTION	
NO		

Drawing Title
SITE SECTION

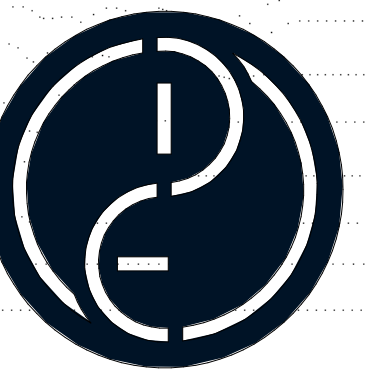
SK-5



1
SK-6
EXISTING CANOPY DEMOLITION SECTION
SCALE: 3/4" = 1'-0"



2
SK-6
PROPOSED CANOPY DETAIL
SCALE: 1/12" = 1'-0"



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BRICKTOP'S
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GREENVILLE, SC 29601

DRAWING ISSUE		03/30/2022	DATE
NO	REVISION DESCRIPTION	DATE	
1	DRB SUBMISSION		

EXISTING
CANOPY
DEMOLITION
SECTION &
PROPOSED
CANOPY DETAIL

SK-6



ENTRANCE PERSPECTIVE (BEFORE)



ENTRANCE PERSPECTIVE (AFTER)



W. WASHINGTON STREET (BEFORE)



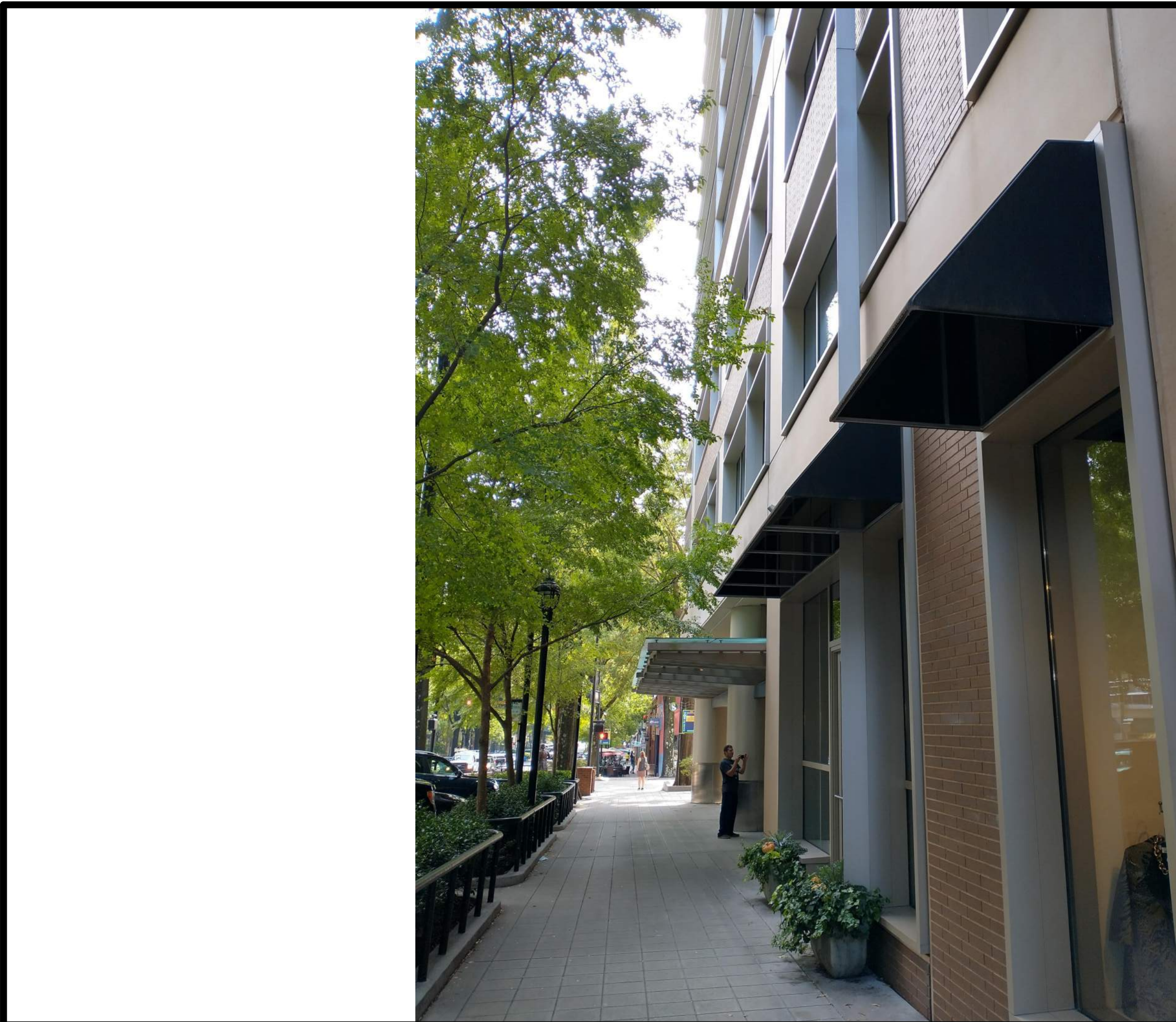
W. WASHINGTON STREET (AFTER)



N. MAIN STREET PERSPECTIVE (BEFORE)



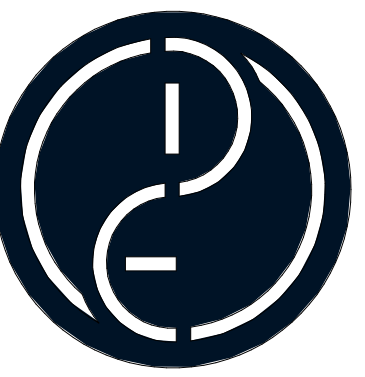
N. MAIN STREET PERSPECTIVE (AFTER)



N. MAIN SIDEWALK (BEFORE)



N. MAIN SIDEWALK (AFTER)



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NOT-FOR-CONSTRUCTION

PROJECT NUMBER
670229

BRICKTOP'S
1 NORTH MAIN STREET, SUITE H
GREENVILLE, SC 29601

DRAWING ISSUE		03/30/2022	DATE
NO	REVISION DESCRIPTION		
1	DRB SUBMISSION		
2			
3			
4			
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7			
8			
9			
10			

Drawing Title
MASSING STUDY
- TENANT
SIDEWALK

SK-8



ENTRANCE PERSPECTIVE



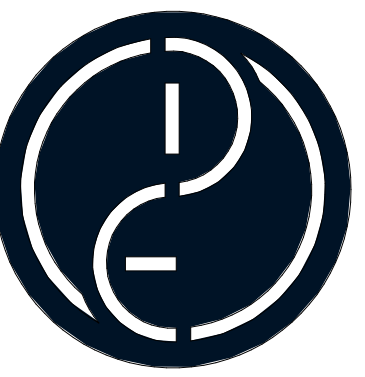
N. MAIN STREET PERSPECTIVE



W. WASHINGTON STREET



W. WASHINGTON STREET



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BRICKTOP'S
1 NORTH MAIN STREET, SUITE H
GREENVILLE, SC 29601

DRAWING ISSUE	NO	REVISION DESCRIPTION	DATE
DRB SUBMISSION			03/30/2022

Drawing Title
MASSING STUDY
- ADJACENT
SIDEWALK

SK-9



PRODUCT CATALOG

ARCHITECTURAL ELEMENTS, CLADDING & DECKING

Geolam®

Architectural Eco-Technology



MARS PETCARE HQ, TN



BLACKBAUD HQ, SC



Geolam products are light, easy to install and exceed the strength and durability of natural wood. Wood's warmth and aesthetic look is perfectly reproduced using our unique, sustainable, patented technology.

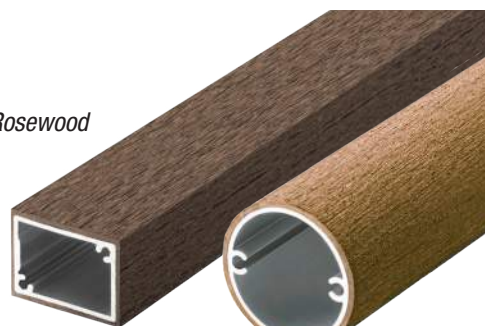
With over 500 installations across North America, Geolam products require very little maintenance, are fade resistant and can withstand extreme climates. They are ideal for façades, sunshades, rainscreens, other architectural accents, cladding, soffits and decking.

Architectural Elements

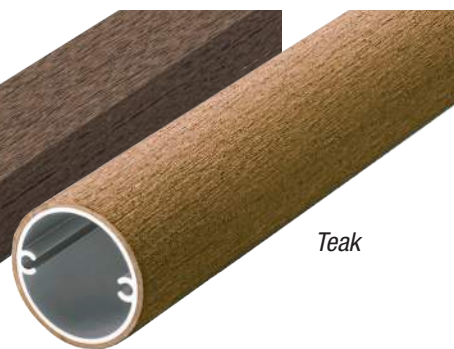
HYBRID ALUMINUM/WPC

Available in Teak, Moleskin, Rosewood and Ebony

Rosewood



Teak



	Dimensions	Weight	End caps		Connectors	
			Plastic	WPC	Straight	Corner
Soleo 6027 <i>Minimum 1,000 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		0.74 kg/lm 0.50 lb/ft	✓			
Soleo 6005 <i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		0.60 kg/lm 0.40 lb/ft				
Soleo 6008 <i>Teak and Rosewood stocked in the US, no minimum. Minimum 1,000 lineal ft for Moleskin and Ebony. Standard Length - 9 ft 10 in.</i>		0.77 kg/lm 0.52 lb/ft		✓	✓	✓
Soleo 6029 <i>Minimum 1,000 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.00 kg/lm 0.67 lb/ft		✓		
Soleo 6026 <i>Minimum 1,000 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.05 kg/lm 0.71 lb/ft	✓			
Soleo 6011 <i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.12 kg/lm 0.75 lb/ft				
Soleo 6030 <i>Minimum 1,000 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.20 kg/lm 0.81 lb/ft		✓	✓	✓
Soleo 6017 <i>Minimum 1,000 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.60 kg/lm 1.08 lb/ft	✓			
Soleo 6036 <i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.00 kg/lm 0.67 lb/ft				
Soleo 6009 <i>Minimum 1,000 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.40 kg/lm 0.94 lb/ft		✓	✓	✓

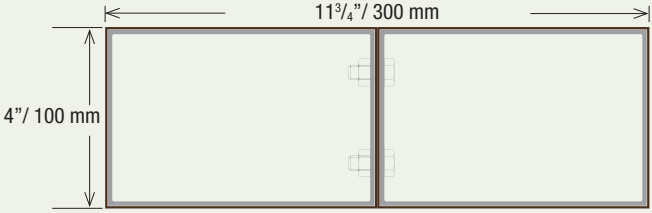
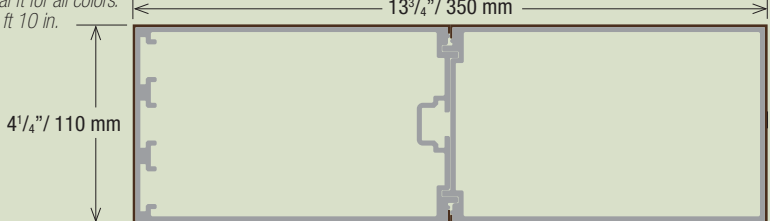
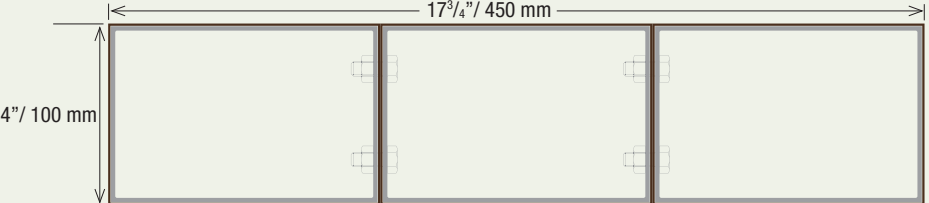
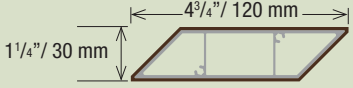
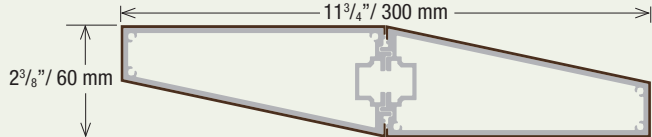
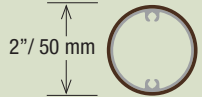
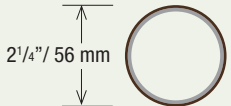
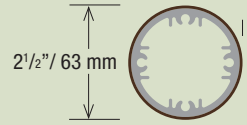
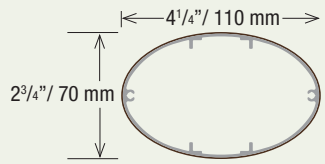


Warehoused in the USA

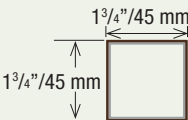
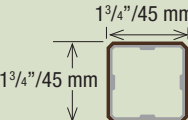
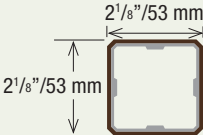
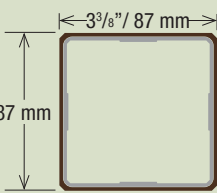
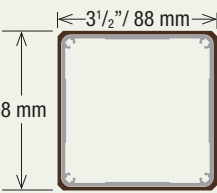
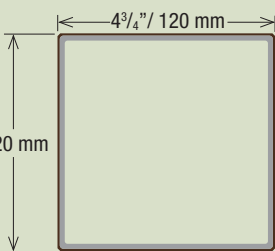
Standard lengths = 3 meters (9' 10"). Max length available = 6 m (19' 8") and for Planeo = 8 m (26'). Minimum order for non-standard lengths = 500 m (1640')

	Dimensions	Weight	End caps		Connectors	
			Plastic	WPC	Straight	Corner
Soleo 6034 Minimum 1,000 lineal ft for all colors. Standard Length - 9 ft 10 in.		1.94 kg/lm 1.30 lb/ft	✓			
Soleo 6031 Teak and Rosewood stocked in the US, no minimum. Minimum 1,000 lineal ft for Moleskin and Ebony. Standard Length - 9 ft 10 in.		1.60 kg/lm 1.08 lb/ft		✓	✓	
Soleo 6010 Teak and Rosewood stocked in the US, no minimum. Minimum 1,000 lineal ft for Moleskin and Ebony. Standard Length - 9 ft 10 in.		2.30 kg/lm 1.55 lb/ft		✓	✓	✓
Soleo 6038 Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.		2.00 kg/lm 1.34 lb/ft				
Soleo 6024 Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.		2.06 kg/lm 1.38 lb/ft				
Soleo 6040 Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.		2.40 kg/lm 1.61 lb/ft				
Soleo 6050 Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.		3.90 kg/lm 2.62 lb/ft				
Soleo 6033 Teak and Rosewood stocked in the US, no minimum. Minimum 1,000 lineal ft for Moleskin and Ebony. Standard Length - 9 ft 10 in.		3.30 kg/lm 2.22 lb/ft	✓		✓	
Planeo 4010 Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.		2.21 kg/lm 1.49 lb/ft				
Planeo 4044 Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.		4.52 kg/lm 3.04 lb/ft				
Planeo 4123 Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.		3.74 kg/lm 2.51 lb/ft				
Planeo 4048 Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.		4.80 kg/lm 3.23 lb/ft				



		Dimensions	Weight	End caps		Connectors	
				Plastic	WPC	Straight	Corner
Planeo 4061	<i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		9.50 kg/lm 6.38 lb/ft				
Planeo 4046	<i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		9.90 kg/lm 6.65 lb/ft				
Planeo 4062	<i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		14.25 kg/lm 9.58 lb/ft				
Diameo 2018	<i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.42 kg/lm 0.95 lb/ft	✓		✓	
Diameo 2023	<i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		7.43 kg/lm 4.99 lb/ft				
Rondo 3002	<i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		0.95 kg/lm 0.64 lb/ft				
Rondo 3003	<i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.14 kg/lm 0.77 lb/ft				
Rondo 3004	<i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		2.47 kg/lm 1.66 lb/ft				
Rondo 3006	<i>Minimum 1,600 lineal ft for all colors. Standard Length - 9 ft 10 in.</i>		1.72 kg/lm 1.16 lb/ft				



		Dimensions	Weight	End caps		Connectors	
				Plastic	WPC	Straight	Corner
Careo 7015	Minimum 1,000 lineal ft. for all colors. Standard Length - 9 ft 10 in.		0.82 kg/lm 0.55 lb/ft				
Careo 7031	Minimum 1,600 lineal ft. for all colors. Standard Length - 9 ft 10 in.		0.82 kg/lm 0.55 lb/ft				
Careo 7011	Minimum 1,000 lineal ft. for all colors. Standard Length - 9 ft 10 in.		1.34 kg/lm 0.90 lb/ft			✓	
Careo 7035	Minimum 1,000 lineal ft. for all colors. Standard Length - 9 ft 10 in.		2.28 kg/lm 1.53 lb/ft				
Careo 7014	Minimum 1,000 lineal ft. for all colors. Standard Length - 9 ft 10 in.		2.80 kg/lm 1.88 lb/ft		✓		
Careo 7016	Minimum 1,600 lineal ft. for all colors. Standard Length - 9 ft 10 in.		4.00 kg/lm 2.69 lb/ft				

End Caps

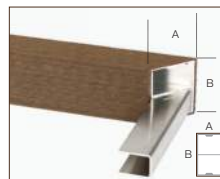
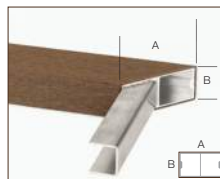


Non standard End Caps
& Splicers/Connectors
available on request.

Splicers/Connectors

Corners

Française (Lying Down) Belge (Standing Up)



Straight

Note: bumps to prevent sliding during installation



Warehoused in the USA

Standard lengths = 3 meters (9' 10"). Max length available = 6 m (19' 8") and for Planeo = 8 m (26"). Minimum order for non-standard lengths = 500 m (1640')

Cladding & Soffit

HYBRID ALUMINUM/WPC

Available in Teak, Moleskin, Rosewood and Ebony



		Dimensions	Weight
Vertigo 5011	Minimum 5000 lineal ft or 1800 sq ft for all colors. Standard Length - 12 ft.		0.77 kg/lm 0.52 lb/ft
Vertigo 5010	Minimum 5000 lineal ft or 2500 sq ft for all colors. Standard Length - 12 ft.		1.19 kg/lm 0.80 lb/ft
Vertigo 5010	All colors stocked in the US, no minimum. Standard Length - 12 ft.		1.19 kg/lm 0.80 lb/ft

Commercial Decking

CO-EXTRUDED WOOD PLASTIC COMPOSITE

Available in Teak, Moleskin, Rosewood and Ebony



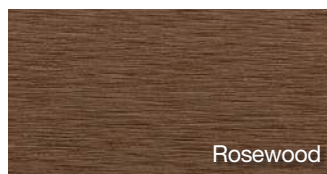
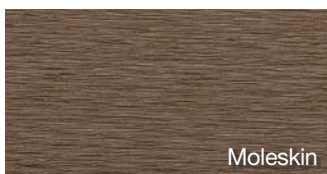
		Dimensions	Weight	Clips and screws	End caps and screws
Qualita 020C	All colors stocked in the US, no minimum. Standard Length - 12 ft.		3.30 kg/lm 2.21 lb/ft	✓	✓
Qualita 020E	All colors stocked in the US, no minimum. Standard Length - 12 ft.		3.30 kg/lm 2.21 lb/ft		✓



Standard lengths = 3 meters (9' 10"). Max length available = 6 m (19' 8") and for Planeo = 8 m (26"). Minimum order for non-standard lengths = 500 m (1640')

Standard colors

Custom colors available upon request. (Minimum order quantities required.)



To learn more about the advantages of Geolam, our complete product line, or for any other information, please visit our website or contact us at any time.

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Geolam[®]
Architectural Eco-Technology



PROTECTION
Like No Other™

Product Catalog



Aluminum Hurricane & Security Shutters:

- > Hoods (Extruded, Rolled Form)
- > Side (End) Caps
- > Side Rails (Tracks)
- > Bottom Bars
- > Weight Bars
- > Motor Tubes
- > Miscellaneous Extrusions

Exterior Screens: (MaestroScreens)

- > Motorized Retractable Screens
- > Wire & Free-Hanging Screens

Motors: Tubular Motor Control Systems

- > AC / DC
- > 120v / 220v / 230v / 12v
- > Interior Shades Motors

Parts & Accessories & Manual Operators

Options & Electronics:

- > Controllers (remote) / Switches / Receivers
- > LED Lighting
- > Smart Wi-Fi Controllers
- > Wind-Sun Sensor
- > Smart Home Automation Interface





MaestroShield®

Protection Like No Other

MISSION STATEMENT

To design, engineer, manufacture and deliver the highest quality and most innovative solutions for the hurricane shutter, security shutter, exterior screening and interior shading markets around the World.

2141 Flint Drive, Fort Myers, Florida 33916 USA

Corporate Offices +1 (239) 596-8883
Toll Free (866) 549-0269
Fax +1 (239) 596-8823
Technical Support/Customer Service +1 (239) 206-9115
E-mail orders to order@maestrosshield.com
Visit us on the web at www.MaestroShield.net



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Mounting Plates	
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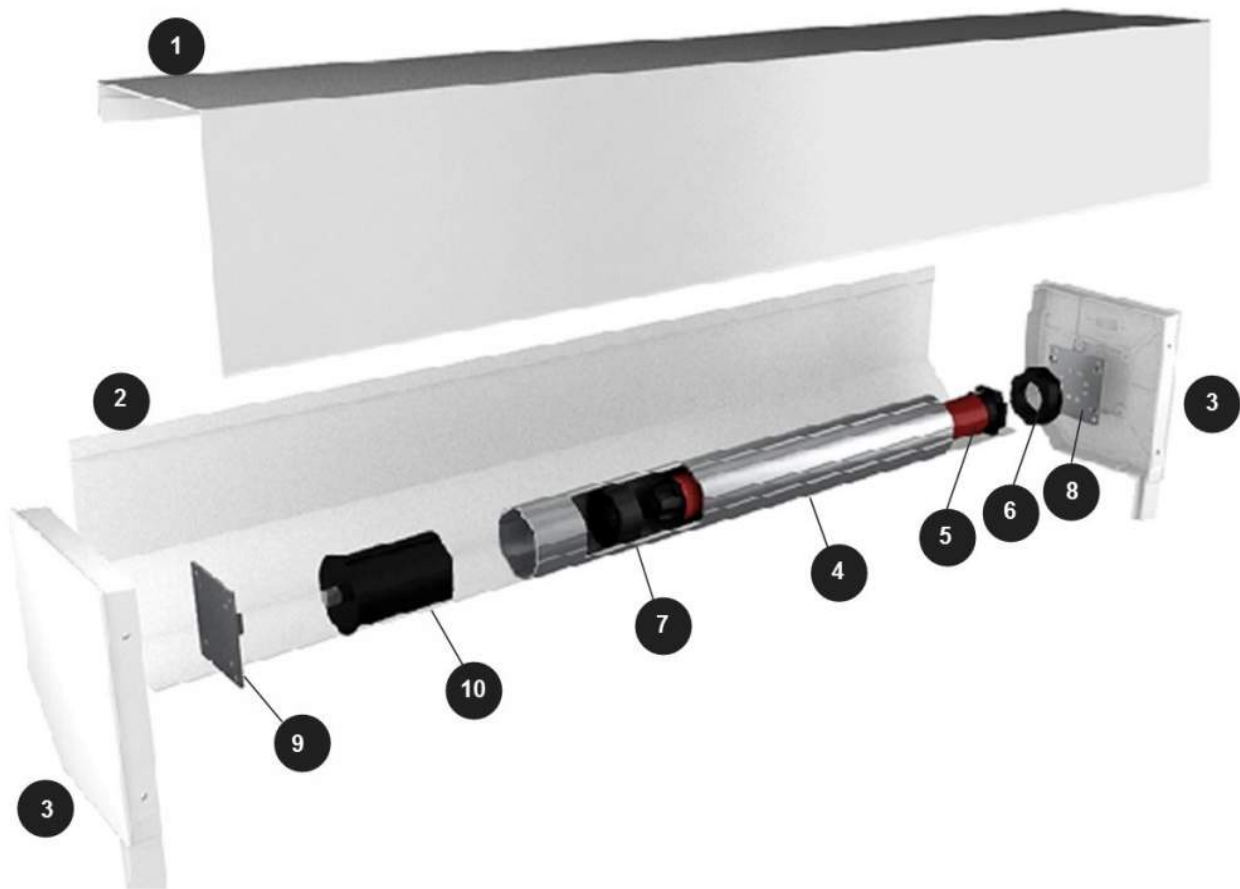
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Hood Assembly



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Hood Assembly | Extruded 5-Sided 45° Hoods



Hood Front "A"

Hood Back "B"



5-sided, 45° hoods available in white, ivory, beige, and bronze



Extruded 45° Hoods		
Size	(A) Front Section Item #	(B) Back Section Item #
5 1/2" / 140mm	SM02F-5.5	SM02B-5.5

Roll Formed 45° Hoods	
Size	Item # (Back & Front)
5.5" / 139mm	SM04-05.5 (Screens)
6 1/2" / 165mm	SM01-06.5 (Shutters)
6 1/2" / 165mm	SM05-06.5 (Screens)
7" / 178mm	SM01-07 (Shutters)
7" / 178mm	SM04-07 (Screens)
8" / 203mm	SM01-08 (Shutters)
10" / 254mm	SM01-10 (Shutters)
12" / 305mm	SM01-12 (Shutters)

Hoods are sold in two sections (front and back), available in a length of 26' (7.93m), and feature either an extruded or rounded design style.

Note: Mill available on custom orders. Minimum quantities and lead times will apply.

	MaestroShield Extruded Hood	MaestroShield Rounded Hood
Wall Thickness	1.5mm (.050") (66% thicker than bent)	0.9mm (.035")
Powder Coat Warranty	10-year warranty on powder coating (1-year in coastal regions within 1 mile of saltwater coastline)	1-year

Hood Assembly | Extruded Rounded and Square Hoods

Rounded



Extruded, Rounded Hood with Brush Seal		
Size	(A) Front Section Item #	(B) Back Section Item #
5 1/2" / 140mm	SM10F-5.5-XX/24A	SM02B-5.5-XX/24A
1" / 3/4"	AC05-06/Black (1") Brush Seal	AC05-07/Black (.75") Brush Seal

Extruded, Rounded Hood (No Brush Seal) Custom Order Only		
Size	(A) Front Section Item #	(B) Back Section Item #
5 1/2" / 140mm	SM10F-5.5	SM02B-5.5



Square(4")



Square hoods available in white, bronze.
Other customs available through custom order.



- Compact size.
- Modern design.
- Great for sizes up to 16' wide x 10' height

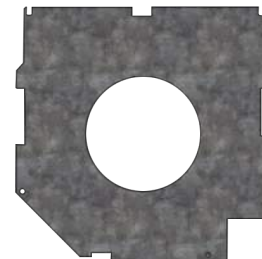
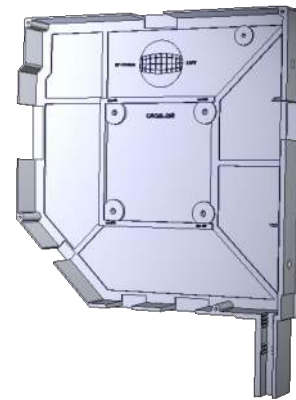
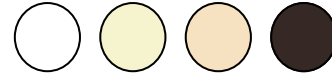
Extruded, Square Hood		
Size	(A) Front Section Item #	(B) Back Section Item #
4" / 102mm	SM06F-4.0	SM06B-4.0

Hood Assembly

| Side Caps 45° and Safety Plates
(See Next Page for Rounded / Square)

Impact-Rated Side Caps		
Size	Weight	Item #
5 1/2" (139mm)	0.75 lbs	CA02-139
6 1/2" (165mm) with No Leg	0.95 lbs	CA05-165
7" (178mm)w/ Small Leg	1.08 lbs	CA04-180
8" (203mm)w/ Small Leg	1.43 lbs	CA04-205
8" (203mm)w/ Lg. Leg	2.05 lbs	CA03-205
8" (203mm) with No Leg)	1.3 lbs	CA05-205
10" (254mm)w/ Lg. Leg	2.78 lbs	CA03-250
10" (254mm) with No Leg)	1.95 lbs	CA05-250
12" (304mm)w/ Lg. Leg	3.86 lbs	CA03-300

Side Caps available in white, ivory, beige, and bronze



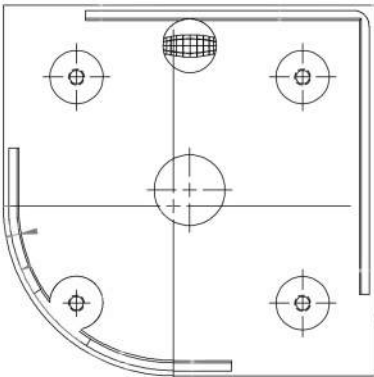
	MaestroShield Heavy Duty Side Cap	Universal Side Cap
Thickness of Casting	6mm (.23")	3.2mm (.12")
Threaded Inserts for Motor Plates	Threaded Galvanized Steel Insert - 6.85mm (.26") deep	Threaded Aluminum - 3mm (.12") deep or drill through
Threaded Inserts for mini Receiver	Yes	No
Powder Coat Warranty	10-year	1-year
Openings for Manual Crank	Yes - In all four positions	Not in all positions (requires drilling)
Adjustable Hood for flush appearance	Yes	No

Safety Plate fits all side caps with 60mm (2.36"), 70mm (2.75") & 86mm (3.38") tube

Guides		
Item	Item #	
Entry Guide for 44mm Non End Retention system, with small leg side cap	AC01-12SLM	
Entry Guide for 44mm End Retention system, with small leg side cap	AC01-12SM	
Entry Guide with 56mm system, with large leg side caps	AC01-12A	

Safety Plate for Side Cap	
Size	Item #
6.5" (165mm)	AC02-PL065
7" (177mm)	AC02-PL07
8" (203mm)	AC02-PL08
10" (254mm)	AC02-PL10S
12" (304mm)	AC02-PL12

Hood Assembly | Side Caps - Rounded and Square



Impact-Rated Rounded Side Caps		
Size	Weight	Item #
5 1/2" (139mm)	0.75 lbs	CA10-139

Note: Mill available on custom order. Minimum quantities /lead times apply.

Side Caps available in white, ivory, beige, and bronze

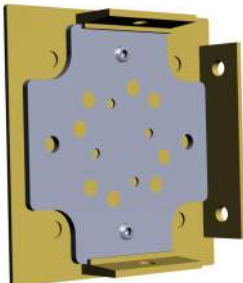
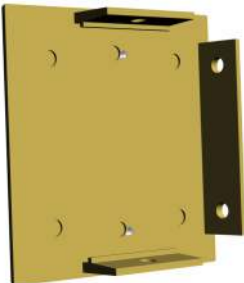
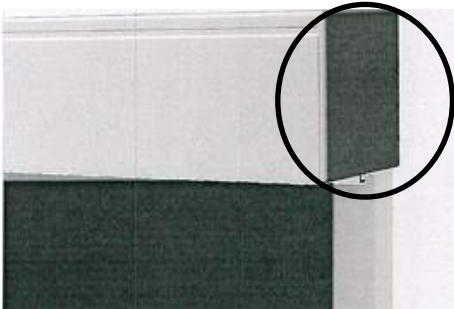
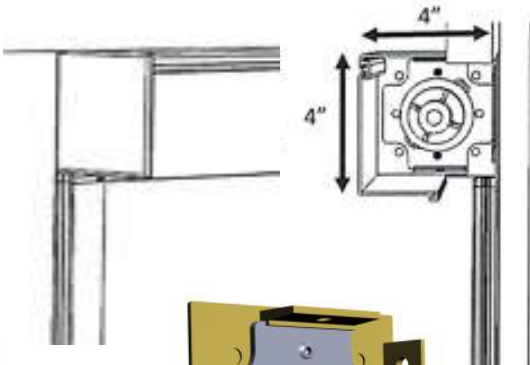


Internal galvanized steel inserts for easy installation of motor plates for a clean appearance

	MaestroShield Heavy Duty Side Cap	Competitors Universal Side Cap
Thickness of Casting	6mm (.23")	3.2mm (.12")
Threaded Inserts for Motor Plates	Threaded Galvanized Steel Insert - 6.85mm (.26") deep	Threaded Aluminum - 3mm (.12") deep (Some not threaded)
Powder Coat Warranty	10-year	1-year
Openings for Manual Crank	Yes - In all three positions	Not in all positions (requires drilling)
Adjustable Hood for flush appearance	Yes	No

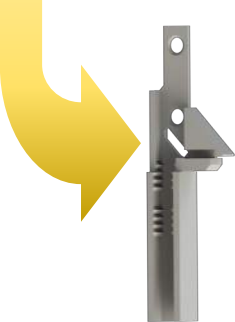


Square Side Caps pairs with 4" Extruded Hood		
Size	Weight	Item #
4" (106mm)	0.25 lbs	CA06-102

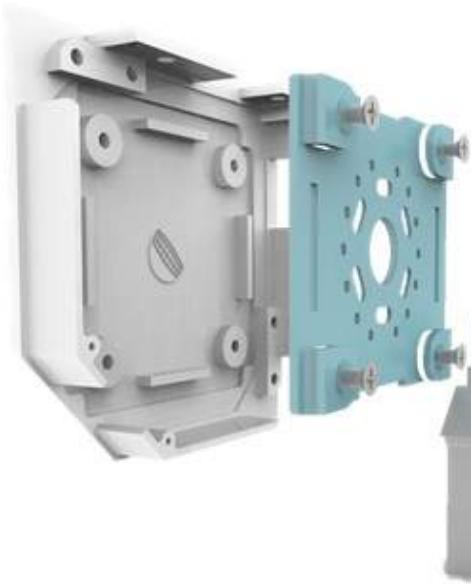
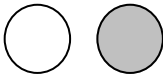


Hood Assembly | Side Caps - Detachable Leg

	Item #	Compatible Side Caps
Detachable Leg used with “no” leg side caps	CA05-SM (mill)	CA05-165
	CA05-SM-WH(white)	CA05-205



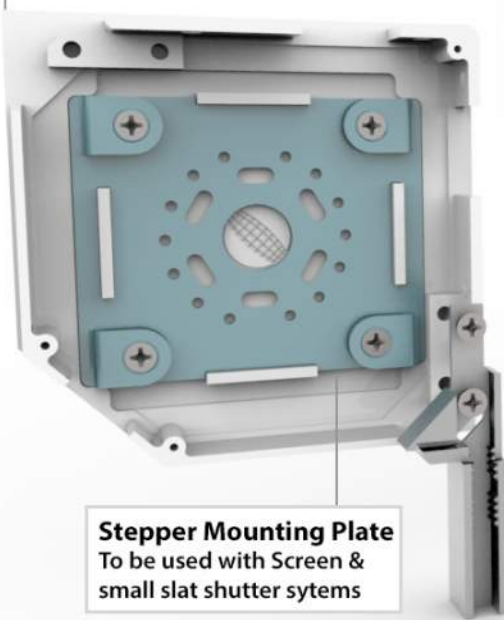
Side Cap Legs available in mill or white



Modular 6.5" Sidecap
To be used with Screen & small slat shutter sytems

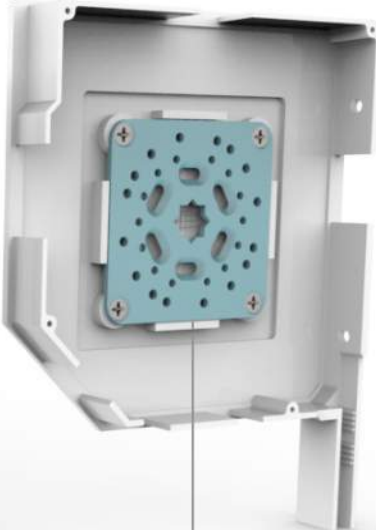
7" Sidecap
To be used with small slat shutter sytems

8" Sidecap
To be used with small slat shutter sytems



Stepper Mounting Plate
To be used with Screen & small slat shutter sytems

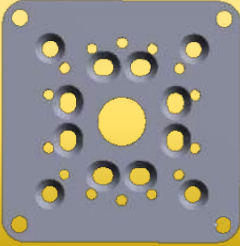
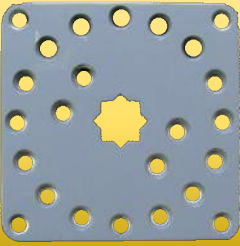
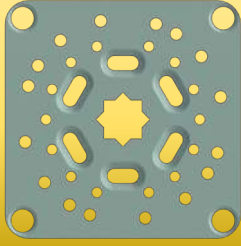
AC03-13



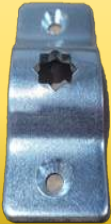
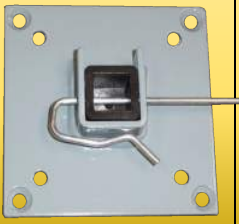
802 Mounting Plate
To be used with Screen & shutter sytems

AC03-0802

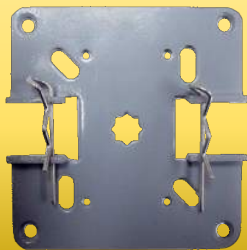
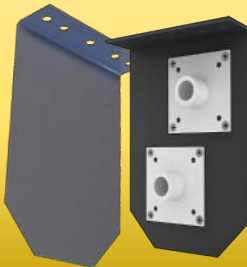
Hood Assembly | Mounting Plates

				
Item Name and Item Number:	Universal Mounting Plate Item #AC03-03A	45° Mounting Plate Item #AC03-0801	Motor Mounting Plate for Screens Item #AC03-0802	Motor Mounting Plate with Large Side Caps Item #AC03-0802
Motor Compatibility:	- Positions: Front, Back, Down 20-120 Nm with manual override	- Position: All 20-120Nm with manual override	- Position: All 20-50Nm Hybrid without manual override	- Position: All 20-120Nm with manual override.
Motor Shaft Length Compatibility (for non-manual override motor):	Not Applicable	Short	Not Applicable	Not Applicable
Manual Gear Compatibility:	1/8, 1/11, 1/18, 1/25, 1/50 and 1/59 Gear Box	1/25, 1/50 and 1/59 Gear Box	n/a	1/8, 1/11, 1/18, 1/25, 1/50, 1/59 manual gear
Idler Compatibility:	None	60mm Idler with Spring 70mm Idler with Spring	60mm, 70mm Idler Bearing w/ Spring	60mm, 70mm Idler Bearing w/ Spring
Bracket/Side Cap Compatibility:	MaestroShield Heavy Duty and Universal Side Cap	MaestroShield Heavy Duty and Universal Side Cap	5.5" Cap	MaestroShield Heavy Duty and Universal Side Cap 8", 10", 12" with Large Leg
Component Specs:	100mm X 100mm; (3.93"x3.93") Polyurethane powder-coated steel	100mm X 100mm; (3.93"x3.93") Polyurethane powder-coated steel	100mm X 100mm; (3.93"x3.93") Polyurethane powder-coated steel	100mm X 100mm; (3.93"x3.93") Polyurethane powder-coated steel

Hood Assembly | Mounting Plates

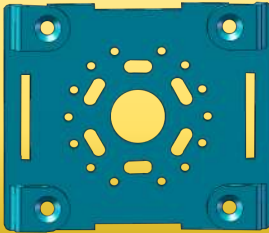
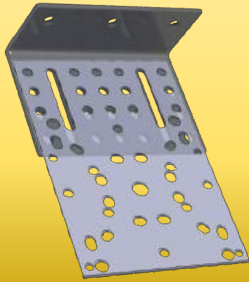
					
Item Name and Item Number:	Motor Star Bracket Item #AC03-06	Motor Star Bracket Item #AC03-16	Motor Star Bracket Item #AC03-26	Idler Bearing Cradle Item #AC03-40	Idler Bearing Cradle Item #AC02-11
Motor Compatibility:	6-50Nm smart motor	100Nm motor without manual override	• Square Shaft motors • Smart motors 3-50Nm • Standard motors 3-50Nm without manual override • Interior Shade motors	None	None
Motor Shaft Length. Compatibility (without manual override motor):	Small/SQ	Big/SQ	Small/SQ	Not Applicable	Not Applicable
Manual Gear Compatibility:	None	None	None	None	None
Idler Compatibility:	None	60mm/70mm Idler with Spring	None	60mm, 70mm and 86mm Idler Bearing	100mm Idler Bearing
Bracket/Side Cap Compatibility:	No	AC03-0801, AC03-0802, AC03-50A, AC03-03A, AC04-50	AC03-0801, AC03-0802, AC03-50A, AC03-03A, AC04-50	MaestroShield and Universal Side Cap	MaestroShield and Universal Side Cap
Component Specs:	Zinc-plated, countersunk, threaded	Zinc-plated, countersunk, threaded	Zinc-plated, countersunk, threaded	100mm X 100mm; (3.93"x3.93") Polyurethane powder-coated steel (includes plastic cap/setting pin)	100mm X 100mm; (3.93"x3.93") Polyurethane powder-coated steel (threaded holes for setting idler)

Hood Assembly | Mounting Plates

				
Item Name and Item Number:	Universal Bracket Plate Item #AC03-1201	Mounting Plate for Torque Spring Item #AC03-30	Heavy Duty Universal Bracket Item #AC03-20	Mounting Plate for 4" Side Cap Item #AC03-102
Motor Compatibility:	20-50Nm non-manual override	100Nm motor without override and spring assist.	All 140Nm - 300Nm Assemblies requiring 100mm Motor Tube	None
Motor Shaft Length Compatibility (for non-manual override motor):	Short	Spring assist, 100Nm motors without manual override	Not Applicable	None
Manual Gear Compatibility:	None	None	1/8, 1/11, 1/18, 1/25, 1/50 and 1/59 Gear Box	None
Idler Compatibility:	None	60mm, 70mm and 86mm Idler Bearing	Idler side for all 140Nm - 300Nm Assemblies requiring 100mm Motor Tube	None
Bracket/Side Cap Compatibility:	MaestroShield Heavy Duty and Universal Side Cap	MaestroShield Heavy Duty and Universal Side Cap	MaestroShield and Universal Side Cap	MaestroShield (Square) 4" Side Cap
Component Specs:	100mm X 100mm, (3.93"x3.93") pre-drilled, Polyurethane powder-coated steel includes pin(s)	100mm X 100mm, (3.93"x3.93") pre-drilled, Polyurethane powder-coated steel, includes bolt to secure spring and metal insert.	Powder-coated steel	100mm X 100mm, (3.93"x3.93") pre-drilled, Powder-coated steel

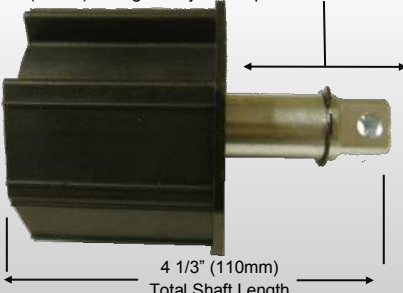
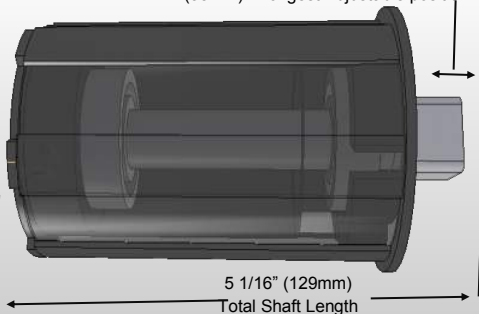
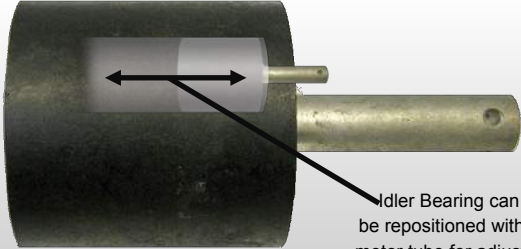
Hood Assembly

I Mounting Plates

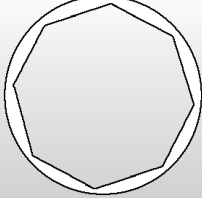
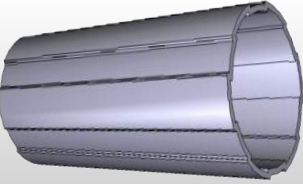
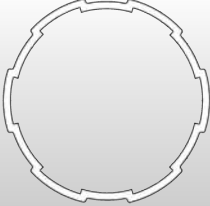
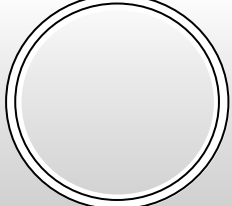
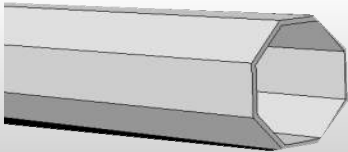
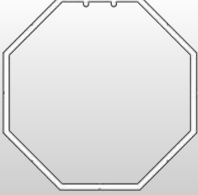
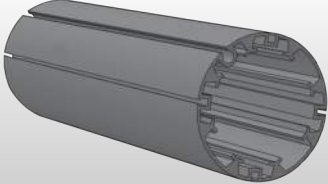
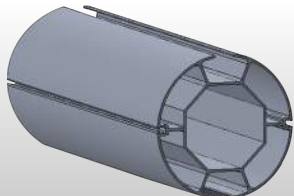
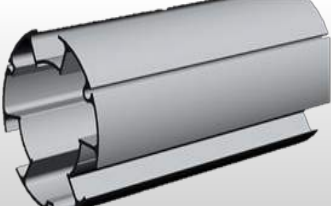
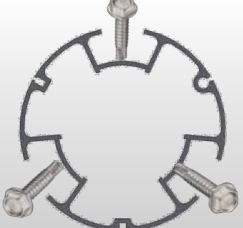
			
Item Name and Item Number:	Universal Angled Bracket Plate Item #AC04-50	Small Leg Side Cap Motor Mounting Bracket Item # AC03-13	Universal Bracket Plate Item #AC03-50A Small Angle Bracket Item #AC03-10
Motor Compatibility:	20-100Nm with manual override	20-50Nm motors w/manual override Hybrid 20—50Nm with and without manual override	20-120Nm with manual override
Universal Position	Not Applicable	All positions	Not Applicable
Motor Shaft Length Compatibility (for non-manual override motor):	None	Not Applicable	None
Manual Gear Compatibility:	1/8, 1/11, 1/18, 1/25, 1/50, 1/59 manual gear	1/8, 1/11, 1/18 manual gear	None
Idler Compatibility:	N/A	None	No
Bracket/Side Cap Compatibility:	Universal Angled Bracket Plate: 6" X 4", (152.4mmx101.6mm); Polyurethane powder-coated steel; used with Small Angle Bracket 4" (101.6mm)Angle Bracket: for Bracket System Mounting; Polyurethane powder-coated steel (Threaded to accept all 100x100mm mounting plates)	6.5" (165mm), 8" (203mm), 10" (254mm) Side Caps removable leg, 7" (178mm), and 8"(203mm) Side Caps with small leg	Universal Bracket Plate: 6" X 4", (152.4mmx101.6mm); Polyurethane powder-coated steel; used with Small Angle Bracket 4" (101.6mm)Angle Bracket: for Bracket System Mounting; Polyurethane powder-coated steel (Threaded to accept all 100x100mm mounting plates)
Component Specs:	Powder-coated steel	Powder-coated steel	Powder-coated steel

Hood Assembly

I Idler Bearings

	Item # and Name	Compatibility	Specifications
	60mm Idler Bearing w/ Spring Item #AC02-12-SL	Compatible with 60mm octangular motor tube For use with Maestro Screen	Dual stainless steel, motor-cross ball bearings. Polycarbonate composite housing. Spring loaded for easier and quicker installation
 3/4" (19mm) - Shortest Adjustable position 2 1/4" (58mm) - Longest Adjustable position 4 1/3" (110mm) Total Shaft Length	60mm Idler Bearing Item #AC02-12	Compatible with 60mm octangular motor tube	Dual stainless steel, motor-cross ball bearings Polycarbonate composite housing. Adjustable shaft
 3/4" (19mm) - Shortest Adjustable position 2 1/4" (58mm) - Longest Adjustable position 4 1/3" (110mm) Total Shaft Length	70mm Idler Bearing Item #AC02-05-110 (110mm shaft) Item # AC02-05-110SPR (110mm shaft) (with Spring) Item #AC02-05-135SPR (with 128mm shaft) (with Spring)	Compatible with 70mm octangular motor tube	Dual stainless steel, motor-cross ball bearings. Polycarbonate composite housing. Adjustable Shaft
 3/4" (19mm) - Shortest Adjustable position 1 1/2" (38mm) - Longest Adjustable position 5 1/16" (129mm) Total Shaft Length	86mm Idler Bearing with End Cap Item #AC02-03 Or AC02-03RSL for XL 5.5 Motor Tube 	Compatible with 86mm Maestro-Shield® profile motor tube Or 5.5" XL System Motor Tube	Dual stainless steel, motor-cross ball bearings. Polycarbonate composite housing. Adjustable Shaft
 Idler Bearing can be repositioned within motor tube for adjustable positioning	100mm Motor Tube Idler Bearing Item #AC02-04	Compatible with 100mm round motor tube with 94mm inside Diameter. Can be modified for compatibility with 100mm round tube with 97mm inside diameter	Dual stainless steel, motor-cross ball bearings. Self-lubricating. Polycarbonate composite housing

Extrusions | Motor Tubes

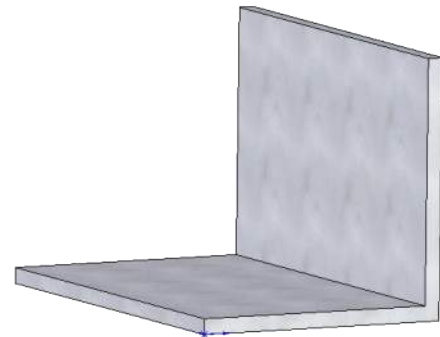
	Profile	Item # and Name	Compatibility	Specifications
		Motor Tube 70mm Octagonal Inside, Round Outside Item #EX01-07/21 Item #EX01-07/24	Aluminum Shutter	Aluminum; Sold in 21' (6.4m) and 24' (7.3m) lengths
		Motor Tube MS 86mm Item #EX01-08/24	Aluminum Shutter Or Exterior Screen Inner Tube for XL System	Aluminum; Sold in 24' (7.3m) lengths
		Motor Tube 100mm Round Triple Coat Protection Galvanized Steel Item #EX01-09/24	Aluminum Shutter	Triple Coated Protection Galvanized Steel; Sold in 21' (6.4m), and 24' (7.3m) lengths
		Motor Tube 60mm Inner Octagonal Item #EX01-16/24A	Exterior Screening Or Aluminum Shutter	Aluminum; Sold in 24' (7.3m) lengths
		3 1/2" (89mm) Screen Outer Tube Item #EX01-14/24A	Exterior Screening	Aluminum; Sold in 24' (7.3m) lengths
		4.0" Motor Tube Outer Tube Item #EX01-18/24A	Exterior Screening	Aluminum; Sold in 24' (6.4m)
		5 1/2" (139.7mm) Screen Outer XL Tube Item #EX01-19/26 or #EX01-19/30	Exterior XL Screening	Aluminum; Sold in 26' (7.92m) and 30' (9.14m) lengths

Extrusions | Build Out



Tubes for Build Out			
Size	Colors	Length	Item #
1" X 2" X .125" (2.54 x 5.08 x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B11
1" X 3" X .125" (2.54 x 7.62 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B13
1" X 4" X .125" (2.54 x 10.16 x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B14
2" X 2" X .125" (5.08 x 5.08 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B22
2" X 3" X .125" (5.08 x 7.62 x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B23
2" X 4" X .125" (5.08 x 10.16 x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B24
3" X 3" X .125" (7.62 x 7.62 x .32 cm)	White	24' / 7.3m	EX01-B33
4" X 4" X .125" (10.16 x 10.16x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B44
4" X 6" X .125" (10.16 x 15.24 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B46

Angles for Build Out			
Size	Colors	Length	Item #
1" X 1" X 0.062" (2.54 x 2.54 x .16cm)	White, Beige, Ivory, Bronze	20' / 6.1m	EX01-A11
1" X 2" X 0.125" (2.54 x 5.08 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-A12
2" X 2" X 0.125" (5.08 x 5.08 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-A22
2" X 3" X 0.125" (5.08 x 7.62 x .32cm)	White, Beige, Ivory, Bronze	20' / 6.1m	EX01-A23
2" X 4" X 0.125" (5.08 x 10.16 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-A24

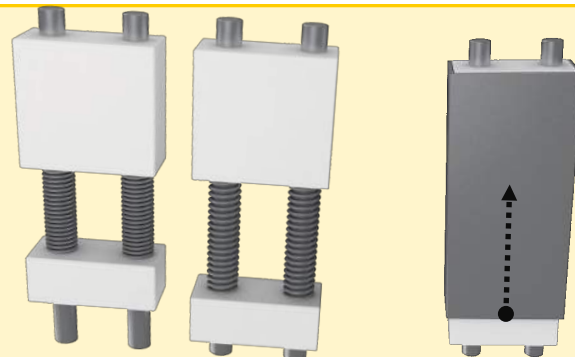


Spring Block

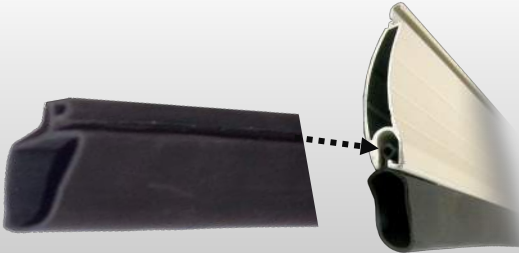
2" x 3" - Item# AC07-01
(5.08 x 7.62cm)

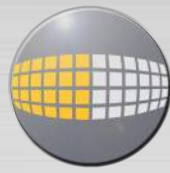
2" x 4" - Item# AC07-02
(5.08 x 10.16cm)

Securely locks storm bar or mullion into position while allowing for easy removal; available in white



Accessories | Gaskets & Brush Seals

	Item # and Name	Compatibility	Specifications
	Slat Gasket Item #AC01-17	Aluminum Roll Down Shutters (standard)	Black Rubber sold in 500' rolls (152.4m)
	Water Seal Gasket Item #AC09-01	Aluminum Roll Down Shutters	Black Rubber Width - 8mm sold in 400' rolls (121.92m)
	Brush Seal (Bottom Bar) 3/4" (1.9cm) Item #AC05-01/BLK 1-1/4" (3.2cm) Item#AC05-03/BLK 1.9" (4.83cm) Item#AC05-04/BLK	MaestroScreens Exterior Screening	Black Felt 3/4" (1.9cm) trim height 1-1/4" (3.2cm) trim height 1.9" (4.83cm) trim height Channel Width - 4.8mm (.19") Sold in 500' rolls (152.4m)
	Brush Seal (for Hood) .75" Item#AC05-07/Black (Hood Back) 1.0" Item#AC05-06/Black (Hood Front)	MaestroScreens Exterior Screening	Black Felt .75" (1.9cm) trim height 1" (2.54cm) trim height Channel Width - 2.9mm (.115") Sold in 500' rolls (152.4m)
	Rubber Seal 3.75" (9.5cm) Item #WS1010	MaestroScreens Exterior Screening	Black Vinyl 3.75" (9.5cm) trim height Channel Width - 4.8mm (.19") Sold in 164' rolls (50m)



MaestroShield®

PROTECTION
Like No Other™

Aluminum Roll Down Shutters

2022



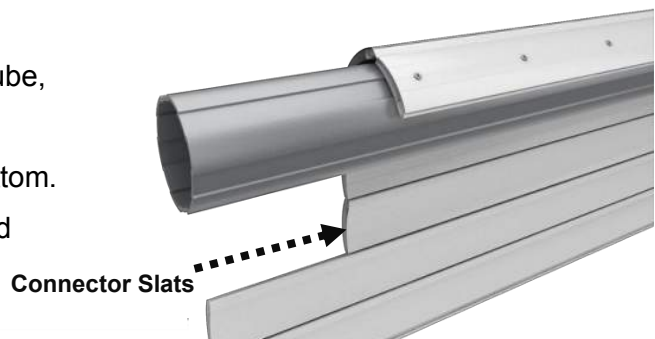
- Security Shutters
- Hurricane Shutters
- Storm and Weather Protection
- Loss Prevention
- Property Protection

Roll Down Shutters | Security Barriers

Engineered to be the best, MaestroShield® End Retention Roll Down Shutters are designed for strength and beauty. Our strength has been rigorously tested and certified and span industry leading widths up to 262" (6.6m) and heights up to 252" (6.4m). Our beauty is in the versatility of our system which offers the choice of slat venting, multiple colors, and a wide array of motors and electronics that will seamlessly integrate your

Security Features of MaestroShield® Aluminum Roll Down Shutters:

- MaestroShield's End Retention system, with riveted end retention slat locks, provides superior security and protection against intrusion, high speed winds, wind-born debris and Ultra-Violet solar radiation.
- MaestroShield's Aluminum Roll-Down shutters have some of the industries highest design pressure capacities and have been issued a notice of acceptance with Miami Dade County, Florida Building Code and Texas Department of Insurance. With a test pressure load exceeding 120 psf, a 10 ft. (3.05m) wide by 10 ft. (3.05m) high span of MaestroShield's end retention can withstand over 15,000 lbs (6,803 kgs) of pressure.
- With connector slats all the way up to the motor tube, a MaestroShield aluminum curtain does not allow for any give if an intruder tries to lift it from the bottom.
- Optional locking bottom bar for added security and a greater design load.



Locking Bottom Bar

- MaestroShield® offers the first impact rated hood assembly on the market.
- Recommended for doors, windows, porches, lanais, balconies, porticos and store fronts with available sizes up to 262" (6.6m) in width and 252" (6.4m) in height.
- Available colors: White, Beige, Ivory and Bronze which include a 10 year warranty on powder coating (with 1 year warranty at coastal areas within 1 mile of salt water).
- Vented and Non-Vented slats are available.
- Manual operated versions lifting capacity is up to 350 lbs (159 kgs) without spring assistance.
- Motorization available with MaestroShield® tubular motors from 3 Nm - 300 Nm and wireless electronics which accommodate a wide range of applications.

Roll Down Shutters | Security Barriers

56mm End Retention Aluminum Roll Down Shutters

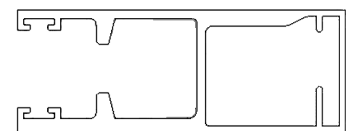
- 262.75" (6.67m) maximum width
- 252" (6.4m) maximum height

WITH END RETENTION NO STORM BARS

SLAT SPAN	ALLOWABLE DESIGN PRESSURE
116.7"	+/- 80.0 PSF
120.0"	+/- 78.2 PSF
130.0"	+/- 73.6 PSF
140.0"	+/- 70.0 PSF
150.0"	+/- 66.9 PSF
160.0"	+/- 64.3 PSF
170.0"	+/- 62.1 PSF
180.0"	+/- 60.1 PSF
190.0"	+/- 58.3 PSF
200.0"	+/- 56.8 PSF
210.0"	+/- 55.3 PSF
220.0"	+/- 54.0 PSF
230.0"	+/- 52.8 PSF
240.0"	+/- 51.7 PSF
250.0"	+/- 50.6 PSF
256.5"	+/- 50.0 PSF

Metric Design Load Table (based on 9.144m (360") height)

DESIGN LOAD "W" (P.S.F.)	MAXIMUM SLAT SPAN	kgs of pressure Shutters can withstand
50	6.4m - 25.4cm	14,855
55	6.4m - 15.24cm	16,091
60	6.4m - 5.08cm	17,281
65	6.4m - 10.16cm	17,985
70	15.8m - 17.78cm	18,654
75	5.5m - 27.94cm	19,305
80	5.5m - 10.16cm	19,958
85	5.2m - 22.86cm	20,530
90	5.2m - 7.62cm	21,126
95	4.9m - 22.86cm	21,653
100	4.9m - 0cm	21,727
105	4.6m - 7.62cm	21,789
110	4.6m - 15.24cm	21,704
115	4.0m - 27.94cm	21,777
120	4.0m - 10.16cm	21,772



Profile of :
56mm End Retention

Roll Down Shutters | Hurricane / Weather Barriers



Miami Dade,
FBC and TDI
Approved



Roll Down Shutters | Hurricane / Weather Barriers

Engineered to be the best, MaestroShield® End Retention and Non-End Retention Roll Down Shutters are designed for strength and beauty. Our strength has been rigorously tested and certified and span industry leading widths up to 262" (6.6m) and heights up to 252" (6.4m). Our beauty is in the versatility of our system, which offers the choice of slat venting, multiple colors, and a wide array of motors and electronics that seamlessly integrate your system while providing comfort, convenience and unparalleled security and protection against intrusion, high speed winds, wind-born debris and Ultra-Violet solar radiation for your home or business.

Aluminum Roll Down Shutters as Hurricane Protection:

- Both MaestroShield® end retention and non-end retention shutters have approval from Miami Dade County, Florida Building Code, and Texas Department of Insurance. With some of the highest design pressure ratings in the industry, a 21' (6.4m) width end retention shutter can withstand sustained wind speeds of over 145 mph (233 kph) without a storm bar, while a 10' (3m) width end retention shutter can withstand wind speeds of over 220 mph (354 kph) without a storm bar.
- Locking bottom slat available for extra security and design load
- Connector slats attach slats to motor tube for greater stability and added security

End Retention Benefits:

- 56mm (2.20") Shutters: approved up to 262" (6.3m) wide and 252" (6.4m) high
- 44mm (1.73") Shutters: approved up to 146.5" (3.7m) wide and 252" (6.4m) high
- Reinforced aluminum Side Rails
- End Retention Slat Locks engineered from high-strength Nylon 6/6
- Rivets attach End Retention Slat Locks to Slat
- Tested and Certified by:



TEXAS DEPARTMENT OF INSURANCE

Other Aluminum Roll Down Shutter Features:

- End Retention and Non-End Retention Versions
- Vented and Non-Vented 44mm (1.73") and 56mm (2.20") Slats
- Idlers with Stainless Steel Idler Bearings
- Mounting Plates are Polyurethane Powder-Coated to Resist Corrosion
- Available in White, Beige, Ivory and Bronze with a 10-Year Warranty on Powder Coating
- Manual Operated Versions have a lifting capacity of up to 350 lbs (159 kgs) without Spring Assistance
- Motorization available with MaestroShield® tubular motors up to 1011 lbs (499 kgs) and wireless electronics which accommodate a wide range of applications.
- Impact-rated Hood Components

Certifications:

Miami Dade County: NOA# 17-0206

Florida Building Code:
FL7873-R10 / FL14235 / FL13757

Texas Department of Insurance: SHU150

Roll Down Shutters | Hurricane / Weather Barriers

Non-End Retention

56mm (2.20") Non-End Retention Aluminum Roll Down Shutters

- 88.375" (2.24m) maximum width w/o storm bars
- 252" (6.4m) maximum height

HVHZ

Non-HVHZ

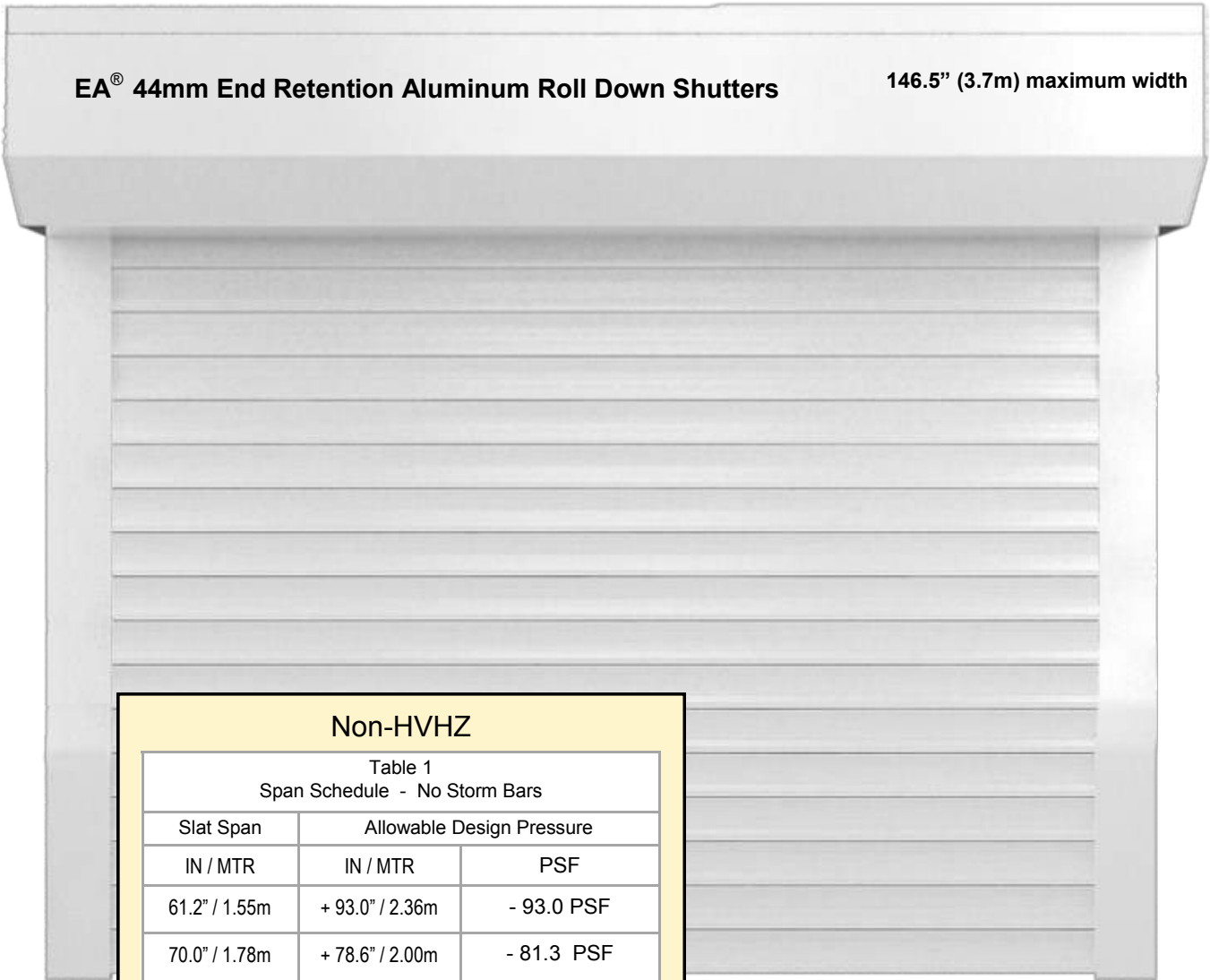
TABLE 1		
W/O END RETENTION - NO STORMBARS		
DESIGN LOAD "W" (P.S.F.)	MAXIMUM SLAT SPAN	MINIMUM SEPARATION TO GLASS
30	5' - 11"	3"
35	5' - 8"	3"
40	5' - 6"	3"
45	5' - 4"	3"
50	5' - 3"	3"
55	5' - 1"	3"
60	5' - 0"	3"
65	4' - 11"	3"
70	4' - 10"	3"
75	4' - 9"	3"
80	4' - 8"	3"
85	4' - 7"	3"
90	4' - 6"	3"
95	4' - 5"	3"
100	4' - 5"	3"
105	4' - 4"	3"
110	4' - 3"	3"
115	4' - 3"	3"
120	4' - 2"	3"
125	4' - 2"	3"
130	4' - 1"	3"
135	4' - 1"	3"
140	4' - 0"	3"
145	4' - 0"	3"
150	3' - 11"	3"
155	3' - 11"	3"
160	3' - 11"	3"
165	3' - 10"	3"
170	3' - 10"	3"
175	3' - 10"	3"
180	3' - 9"	3"

TABLE 1	
W/O END RETENTION - NO STORMBARS	
DESIGN LOAD "W" (P.S.F.)	MAXIMUM SLAT SPAN
30	7' - 4"
35	7' - 4"
40	7' - 4"
45	7' - 3"
50	6' - 10"
55	6' - 6"
60	6' - 3"
65	6' - 0"
70	5' - 9"
75	5' - 7"
80	5' - 5"
85	5' - 3"
90	5' - 1"
95	4' - 11"
100	4' - 10"
105	4' - 9"
110	4' - 7"
115	4' - 6"
120	4' - 5"
125	4' - 4"
130	4' - 3"
135	4' - 2"
140	4' - 1"
145	4' - 0"
150	3' - 11"
155	3' - 10"
160	3' - 10"
165	3' - 9"
170	3' - 8"
175	3' - 8"
180	3' - 7"



**Profile of 56mm (2.20")
Non-End Retention
Side Rail**

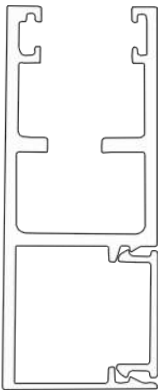
Roll Down Shutters | Assembly Specifications



Non-HVHZ

Table 1
Span Schedule - No Storm Bars

Slat Span IN / MTR	Allowable Design Pressure	
	IN / MTR	PSF
61.2" / 1.55m	+ 93.0" / 2.36m	- 93.0 PSF
70.0" / 1.78m	+ 78.6" / 2.00m	- 81.3 PSF
80.0" / 2.03m	+ 69.2" / 1.76m	- 73.8 PSF
90.0" / 2.29m	+ 63.4" / 1.61m	- 69.3 PSF
98.3" / 2.50m	+ 60.0" / 1.52m	- 66.7 PSF
100.0" / 2.54m	+ 58.8" / 1.49m	- 65.0 PSF
110.0" / 2.79m	+ 52.8" / 1.04m	- 57.1 PSF
120.0" / 3.05m	+ 48.3" / 1.23m	- 51.0 PSF
130.0" / 3.30m	+ 44.6" / 1.13m	- 46.1 PSF
140.0" / 3.56m	+ 41.7" / 1.06m	- 42.2 PSF
146.5" / 3.72m	+ 40.0" / 1.02m	- 40.0 PSF



Profile of EA® 44mm (1.73")
End Retention Side Rail

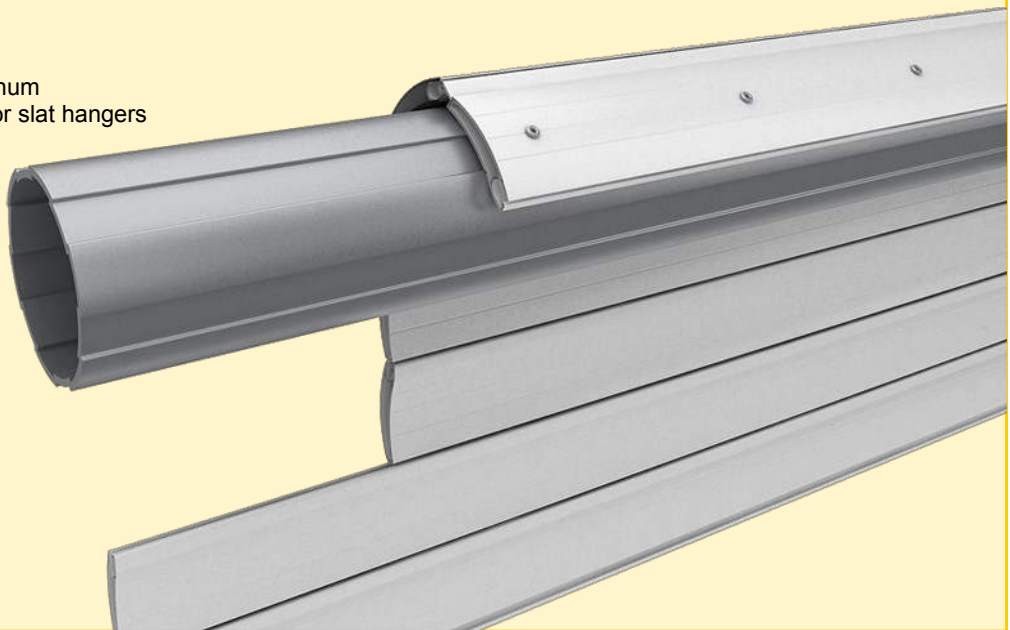
Roll Down Shutters | Assembly Specifications

Connector Slats

MaestroShield Roll Down Aluminum Shutters utilize connector slats or slat hangers to connect slat curtain to motor tube.

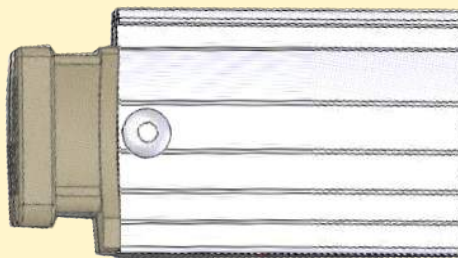
Advantages of Connector Slats:

- **For greater stability:**
less movement
of the slat curtain
- **For added security:**
does not allow for any give
if an intruder tries to lift
it from the bottom



End Retention

- MaestroShield end retention shutters can span up to a maximum width of 262" (6.6m) without storm bars.
- Because of its malleable properties, MaestroShield's nylon end retention slat locks have greater resistant to breakage than the plastic slat locks used by most of our competitors. Nylon also has a longer lifespan and does not crack as easily as plastic.
- MaestroShield Roll Down Shutters use aluminum rivets to attach end retention slat locks. The rivets are attached at 90° through the slat, making a much stronger connection than screws fastened through the end of slat lock. Also, aluminum rivets through aluminum slats are subject to less corrosion than steel screws into aluminum slats.



Riveted for superior strength



Nylon Entry Guide

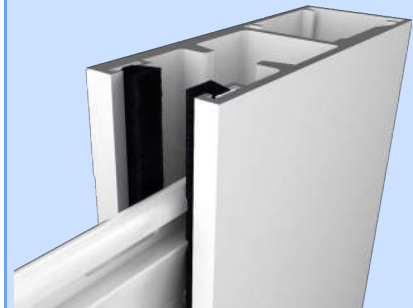
AC01-12SLM:



AC01-12SM:



AC01-12A:



With MaestroShield's nylon entry guide, there is no need to cut and "butterfly" the side rail to allow for slat entry.

Extrusions | Aluminum Roll Down Shutters

Non-Vented

56mm (2.20") Slat

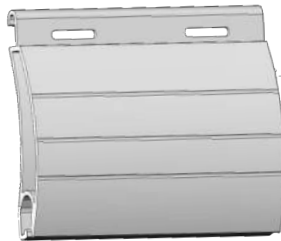
Item # EX01-01S



Vented

56mm (2.20") Slat

Item # EX01-01V



Slats available in
white, ivory, beige, and bronze

Vented 44mm (1.73") Slat



Non-Vented 44mm (1.73") Slat



Slat Dimensions - Vented and Non-Vented 56mm

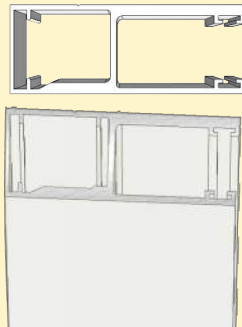
Width	Height	Wall Thickness	Length
2 1/5" / 56mm	1/2" / 14mm	0.52" / 1.3mm	24' / 7.3m

Slat Dimensions - Vented and Non-Vented 44mm

Width	Height	Wall Thickness	Length
1 3/4" / 44mm	3/8" / 10mm	0.043" / 1mm	24' / 7.3m

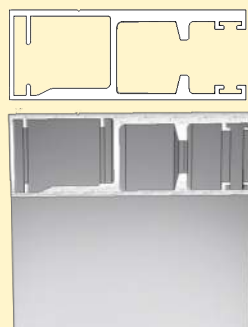
Non-End Retention Side Rail for 56mm (2.20") Slat

Item # EX01-02



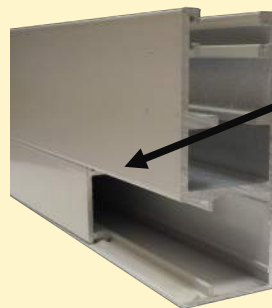
End Retention Side Rail for 56mm (2.20") Slat

Item # EX01-05



End Retention Side Rail for 44mm (1.73") Slat

Item # EX01-05



44mm (1.73") Track features
Snap-On removable front plate
that conceals screws for a clean
external appearance.



All side rails available in
white, ivory, beige, and bronze



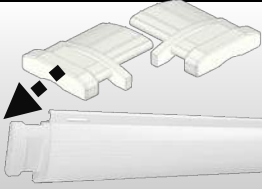
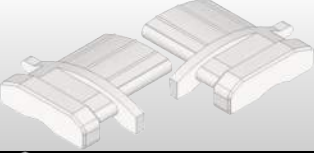
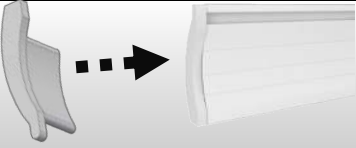
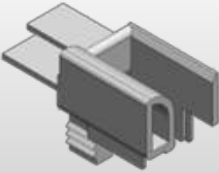
Side Rail Dimensions End Retention or Non-End Retention 56mm

Width	Height	Wall Thickness	Length
3 1/4" / 80mm	1 1/6" / 30mm	0.083" / 3.8mm	21' / 6.4m

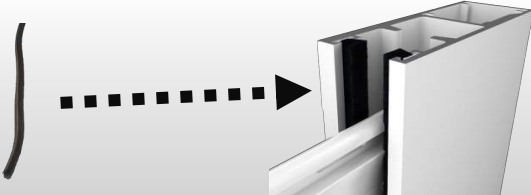
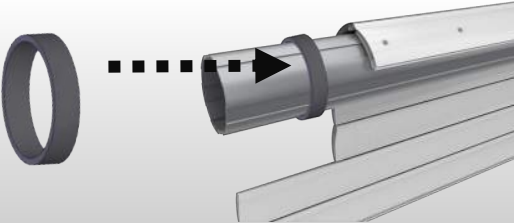
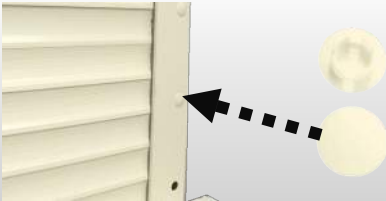
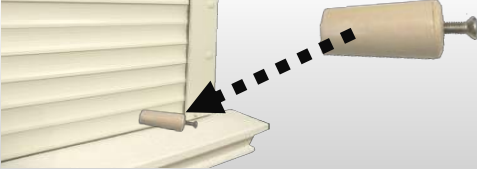
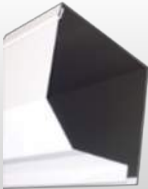
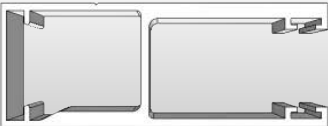
Side Rail Dimensions End Retention or Non-End Retention 44mm

Width	Height	Wall Thickness	Length
2 3/4" / 70mm	1.1" / 28mm	3/32" / 2.2mm	21' / 6.4m

Roll Down Shutters | Accessories

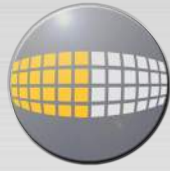
	Item # and Name	Specifications
	1 Wing End Retention Slat Lock Item #AC06-01/1B	1 wing Nylon Available in White Sold in pairs, one right, one left
	2 Wing End Retention Slat Lock Item #AC06-02/1B	2 wings. Nylon Available in White Sold in pairs, one right, one left
	Slat Cap Item #AC01-08	Nylon Available in Black Sold in pairs, one right, one left
	44mm (1.73") Slat Cap	Nylon. Available in White Sold in pairs. One right, one left
	MS® 56mm (2.20") Rivets (White) Item #AC01-25/1000-WH (Bronze) Item #AC01-25/1000-BZ (Ivory/Beige) Item #AC01-25/1000-IV/BG EA® 44mm (1.73") Rivets Item # AC01-425/500	56mm (2.20") Rivets available in White, Bronze, Ivory/Beige. 44mm (1.73") Rivets (Mill).
	Motor Tube Rivet—3/6" Aluminum Dome Head X.375 x 500 grip Item # AC01-21/1000	(4.8mm) Aluminum Dome Head
	Slat Cap Rivet—1/8" 0.063 x x .125 GRIP Item # AC01-23 / 1000	(3.2mm) Slat Cap Rivet
	Entry Guide for 56mm System Item # AC01-12A Entry Guide for 44mm System Small Leg Side Cap: Item # AC01-12SM No Leg Side Cap: Item # AC01-12SLM	Nylon Entry Guide(s) 56mm (2.20"), 44mm (1.73") Sold in pairs One right, one left
	56mm Slat hanger Item #AC10-01 44mm Slat hanger Item #AC10-02	56mm (2.20"), 44mm (1.73")

Roll Down Shutters | Accessories

	Item Name and Number	Specifications
	Felt Item #AC01-10	Available in Grey Adhesive backing Sold in 500' rolls (152.4m)
	Rubber Ring Item #AC01-05	3-25/32" / 96mm Wall: 3/8" / 10mm Reduces noise and impact of slats against motor tube. Fits 86mm tube
	5/8" (16mm) Hole Caps Item #AC01-11	Plastic 5/8" (16mm) diameter Available in White, Ivory, Beige, and Bronze
	Conic Stopper Item #AC07-03 Ivory/Beige Item #AC07-04 White Item #AC07-05 Bronze	PVC Restricts curtain from retracting too far into hood. Available in White, Ivory/Beige, and Bronze
	5-Sided Rolled Hood Available sizes: 5 1/2"(139mm), 6.5" (165mm), 7"(178mm), 8"(203mm), 10"(254mm) and 12"(305mm) Item #SM02B (Back) Item #SM02F (Front)	Available sizes: 5 1/2" (139mm), 7"(178mm), 8"(203mm), 10"(254mm) and 12"(305mm) Available in White, Ivory, Beige, and Bronze
	End Retention Side Rail For MS® 56mm (2.20") Slat Item # EX01-05	Width - 3 1/4" (80mm); Height - 1.18" (30mm); Wall Thickness - 5/32" (3.8mm); Sold in 21' (6.4m)
	Non-End Retention Side Rail for MS® 56mm (2.20") Slat Item # EX01-02	Width - 3 1/4" (80mm); Height - 30mm; Wall Thickness - 3.8mm; Sold in 21' (6.4m)
	End Retention Side Rail for EA® 44mm (1.73") lat Item # EX01-405B (Track) Item # EX01-405C (Cover)	Width - 2 3/4" (70mm); Height - 1,1" (28mm); Wall Thickness - 0.90mm; Sold in 24' (7.3m)

Motor Lift Capacity | Motor Options (120v, 220v)

REBOUND / REBOUND BIDIRECTIONAL / SMART Motors 20—50 Nm with Built-In Receiver (see index for motor section) - With / Without Manual Override 5 year 100% replacement Warranty coverage - Easy-to-Set Electronic Limit Switch - Electronic limit setting - Universal Accessories, Crown and Drive Gears for 60mm motor tubes and others available.	Motor Torque	Max Lift Capacity per Tube Size			
		60mm Motor Tube	70mm Motor Tube	86mm Motor Tube	100mm Motor Tube
	20 Nm	110 lbs (49 kg)	94 lbs (42.6 kg)	77 lbs (34.9 kg)	66 lbs (29.9 kg)
	50 Nm	275 lbs (124 kg)	236 lbs (107 kg)	192 lbs (87 kg)	165 lbs (74.8 kg)
HYBRID / HYBRID BIDIRECTIONAL* Motors 20—120 Nm with Built-In Receiver (see index for motor section) - With and without Manual Override 5 year 100% replacement Warranty coverage - Easy-to-Set Electronic Limit Switch - Mechanically set limits with dual sided limit access - Universal Accessories, Crown and Drive Gears for 60mm motor tubes and others available. *Bidirectional also available in 50Nm and 120Nm with override only	Motor Torque	Max Lift Capacity per Tube Size			
		60mm Motor Tube	70mm Motor Tube	86mm Motor Tube	100mm Motor Tube
	20 Nm	110 lbs (49 kg)	94 lbs (42.6 kg)	77 lbs (34.9 kg)	66 lbs (29.9 kg)
	50 Nm	275 lbs (124 kg)	236 lbs (107 kg)	192 lbs (87 kg)	165 lbs (74.8 kg)
	100 Nm	n/a	471 lbs (213.6 kg)	384 lbs (174.1 kg)	330 lbs (149.6 kg)
	120 Nm	n/a	566 lbs (256.7 kg)	460 lbs (208.6 kg)	396 lbs (179.6 kg)
STANDARD Motors 20-120 Nm (no Built-in Receiver) (see index for motor section) - With and without Manual Override 5 year 100% replacement Warranty coverage - Mechanically set limits with dual sided limit access - Mini-Receiver available separately - Universal Accessories for 20Nm to 50NM: Crown, Drive for 60mm motor tubes and more - Universal Accessories for 60Nm to 120Nm: Crown, Drive for 70mm motor tubes and more	Motor Torque	Max Lift Capacity per Tube Size			
		60mm Motor Tube	70mm Motor Tube	86mm Motor Tube	100mm Motor Tube
	20 Nm (19 rpm)	110 lbs (49 kg)	94 lbs (42.6 kg)	77 lbs (34.9 kg)	66 lbs (29.9 kg)
	30 Nm	165 lbs (74 kg)	141 lbs (63.9 kg)	115 lbs (52.1 kg)	99 lbs (44.9 kg)
	40 Nm	220 lbs (99 kg)	189 lbs (85.7 kg)	153 lbs (69.4 kg)	132 lbs (59.8 kg)
	50 Nm	275 lbs (124 kg)	236 lbs (107 kg)	192 lbs (87 kg)	165 lbs (74.8 kg)
	60 Nm	n/a	283 lbs (128.3 kg)	230 lbs (104.3 kg)	198 lbs (89.8 kg)
	80 Nm	n/a	377 lbs (171 kg)	307 lbs (139.2 kg)	264 lbs (119.7 kg)
	100 Nm	n/a	471 lbs (213.6 kg)	384 lbs (174.1 kg)	330 lbs (149.6 kg)
	120 Nm	n/a	566 lbs (256.7 kg)	460 lbs (208.6 kg)	396 lbs (179.6 kg)
STANDARD Motors 140—300 Nm (no Built-in Receiver) (see index for motor section) - Manual Override 5-year 100% replacement Warranty coverage - No 3-phase power needed - Single sided access to mechanical, set-lever limits - Built-in Crown and Drive Gear for 100mm motor tube - Without Manual Override available special order	Motor Torque	Max Lift Capacity per Tube Size			
		100mm Motor Tube			
	140 Nm	462 lbs (209.5 kg)			
	180 Nm	594 lbs (269.4 kg)			
	230 Nm	755 lbs (344.2 kg)			
	300 Nm	990 lbs (449 kg)			



MaestroShield®

PROTECTION
Like No Other™

MaestroScreens

2022



- Windows
- Doors
- Lanais
- Balconies



- Patios
- Porches
- Porticos
- Entries



- Garages
- Retail Stores
- Restaurants
- Hotels



- Office Buildings
- Factories
- Warehouses
- Schools

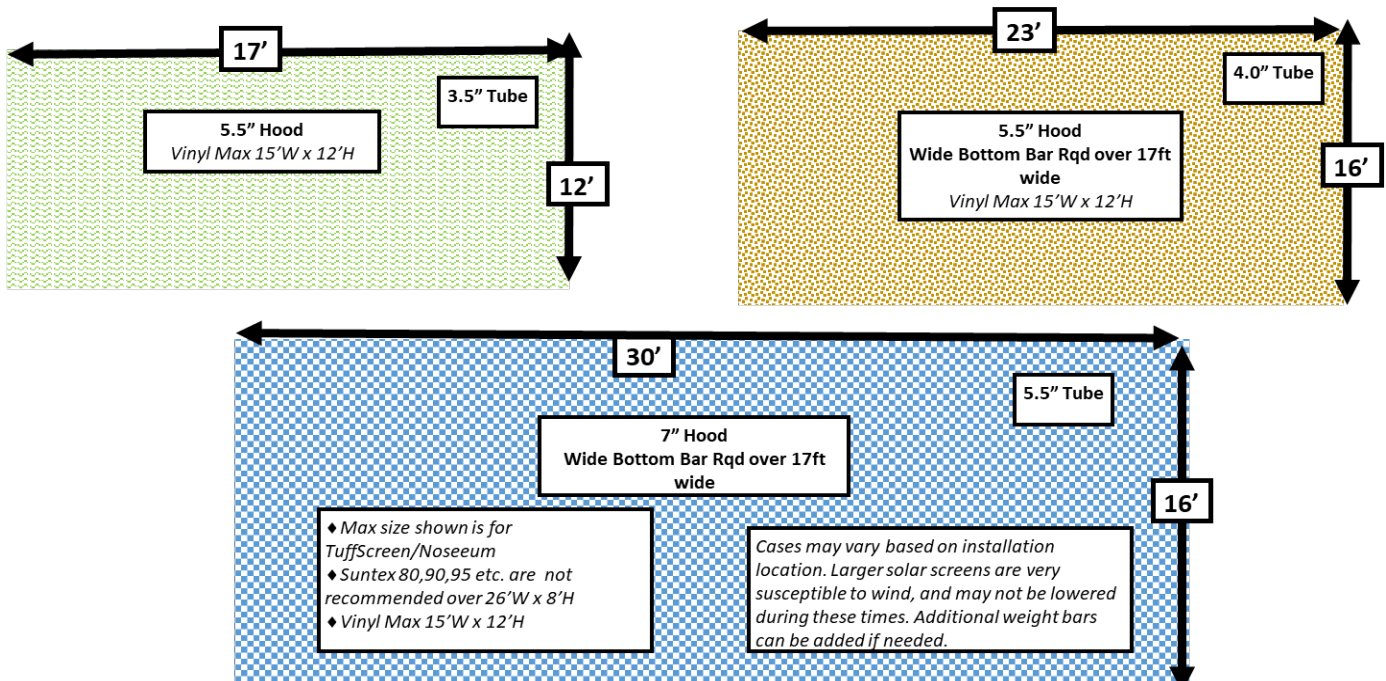
MaestroScreens

Exterior Screening features

(your Sales Team needs to know by heart!)



1. The strength of MaestroScreen's motor tube, coupled with the extruded hood, allows for installations of up to 30' (9.1m) wide without sagging. The 5 1/2" (139mm) hood assembly and small profile side rails are light weight and allow for quick and easy installation.
2. There are two track options to choose from: slim and adjustable. Slim side tracks are only 2" (5.08cm) wide and 5/8" (.16cm) thick, allowing the frame freedom to blend unobtrusively with the building's façade. The adjustable track allows for adjustability up to 1/4" per side (1/2" overall). The 3-piece side track design enables you to hide the mounting screws for a cleaner, more attractive appearance.
3. MaestroShield has the only extruded hood on the market. Our extruded hood is 32% thicker than sheet metal hoods, making it resistant to denting in shipping and handling, and impact resistant when installed. Our side caps, featuring deep galvanized steel threaded inserts for attaching the mounting plates, are 87% thicker than standard universal side caps.
4. Our bottom bars accommodate a weighted steel bar insert, which assists in keeping the screen taut and operating smoothly. The slim bar option's sleek profile allows it to retract further into the hood assembly.
5. The zipper system allows the screen to be tensioned and still run smoothly without needing adjustment.
6. Nylon entry guides provide for clean entry of zipper into side rails, assuring smooth operation for the lifetime of the assembly. **PLUS**, the guide allows for the bottom bar to retract almost entirely into hood.
7. The heavy duty idler system allows for smooth and quiet operation. Spring-loaded idler allows for simple installation of motor tube assembly and, for a quick and easy removal of assembly, if needed.
8. The receiving channel add-on makes installations on uneven surfaces stress-free.
9. The continuous end retention system offers a clean and functional finish, with lengths spanning up to 30ft.
10. Industry-leading warranties featured with our wide variety of motors and electronics!:
 - 10-year warranty on powder coating (1-year in coastal regions within 1 mile of saltwater coastline)
 - 5-year full replacement warranty on tubular motors (DC motors carry a 2-year full replacement warranty)
 - 2-year full replacement warranty on electronics and components



MaestroScreens

Adjustable Installation



Surface Mount Installation



MaestroScreens

Trapped mount Installation



Clear Vinyl Retractable Screens



MaestroScreens



Stucco Column



Decorative Column



Wood Clad Column



Stone-Face Column



Surface Mount



Adjustable

MaestroScreens | Adjustable Track

Adjustable Track Installations



MaestroScreens | Wire & Free-Hanging System(s)

Wire & Free-Hanging Installations



MaestroScreens | Slim (Surface) Track

Ultra Slim (Surface) Track Assembly

(B) Side Caps

5 1/2" (139mm)

#CA02-139 (45°)

#CA10-139 (rounded)

6 1/2" (165mm)

#CA05-165(45°)

7" (180mm)

#CA04-180(45°)

Note:

45° sizes with leg: 5.5",
7", 8", 10", 12" **45°** sizes
no leg: 6.5", 8", 10"

Rounded sizes 5.5",
7"(use removable leg)

(C) MaestroScreens Motor Tubes

Inner Tube

#EX01-16/24A(60mm)

#EX01-08/24(86mm)

Outer Tube

#EX01-14/24A(3.5")

#EX01-18/24A(4")

#EX01-19/26 or /30
(5.5")

(F) Side Rail

#WSA9002B

#WSA9002F

(E) Bottom Bar End Retention

#WS9004C

Fabric:

A variety of styles
& colors to choose
from.

(A) Hood System

5-1/2" (139mm) 45° Hood

Front Section #SM02F-5.5

Back Section #SM02B-5.5

Hood System

5-1/2" (139mm) Rounded*

Front Section #SM10F-5.5

Back Section #SM02B-5.5

5 1/2" (165mm) 45° Hood

#SM02-05.5

6 1/2" (165mm) 45° Hood

#SM04-06.5

7" (180mm) 45° Hood

#SM04-07

Hood Brush Seal*

AC05-06/Black (1")

AC05-07/Black (0.75")

(D) Entry Guide

#WS9004C

#WS9008 (for
bracket or no leg
side cap)

(G) Slim Bottom Bar

#WSA9001F

#WSA9001B

Wide "Heavy Duty" Bottom Bar

#WSA9001HD

(H) Brush Seal

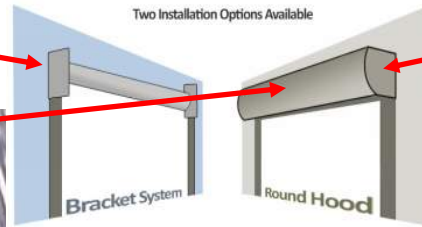
#AC05-01

#AC05-03

#AC05-04

MaestroScreens | Adjustable Track

Adjustable Track Assembly



(A) Bracket System
2-PC: #AC03-10 & #AC03-50A
1-PC: #AC04-50

(A1) Hood System
5-1/2" (139mm) Rounded*
 Front Section #SM10F-5.5
 Back Section #SM02B-5.5
5 1/2" (165mm) 45° Hood

#SM04-05.5

6 1/2" (165mm) 45° Hood

#SM04-06.5

7" (180mm) 45° Hood

#SM04-07

Hood Brush Seal*

AC05-06/Black (1")
 AC05-07/Black (0.75")

(B) Side Caps

5 1/2" (139mm)

#CA10-139 (rounded)

7" (180mm)

#CA04-180(45°)

Note:

45° sizes with leg: 5.5", 7", 8", 10", 12" **45°** sizes no leg: 6.5", 8", 10"

Rounded sizes 5.5", 7"(use removable leg)

(D) Entry Guide

#WS9045

(C) MaestroScreens Motor Tubes

Inner Tube

#EX01-16/24A(60mm)

#EX01-08/24(86mm)

Outer Tube

#EX01-14/24A(3.5")

#EX01-18/24A(4")

#EX01-19/26 or /30 (5.5")

Fabric

A variety of styles & colors to choose from.

(G) Slim Bottom Bar

#WSA9001F

#WSA9001B

Wide "Heavy Duty" Bottom Bar

#WSA9001HD

(F) Side Rail

#WSA9040B

#WSA9040C

#WSA9040F

(adjustable)

Side Rail

Foam

#WS1005

(H) Brush Seal

#AC05-01

#AC05-03

#AC05-04

Rubber Bottom Seal

#WS1010

(E) Bottom Bar End Retention

#WS9043

#WS9049HD

MaestroScreens | Reinforced Track System

Adjustable Track System

Outer Track

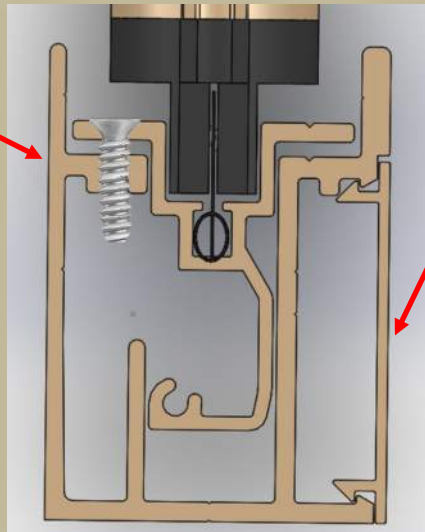
- ◇ Reinforced walls prevents screws from loosening
- ◇ Compatible with self-drilling screws

#WSA9040B

Track Cover

- ◇ Protects integrity of hardware and inner track
- ◇ Provides a clean, finished and professional look

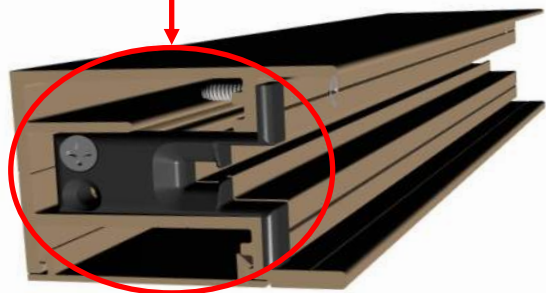
#WSA9040C



Inner Track

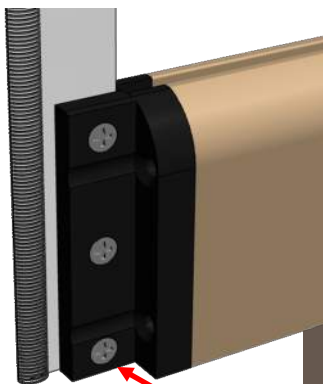
- ◇ Easily and firmly secured with a single screw
- ◇ Features easy installation entry guide

#WSA9040F

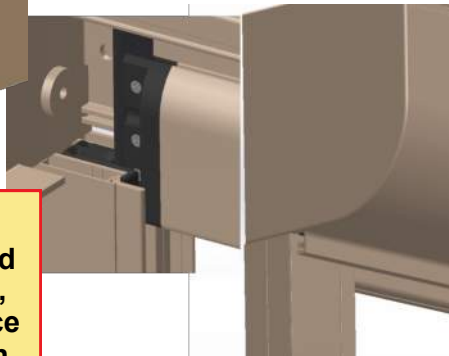


End Retention System

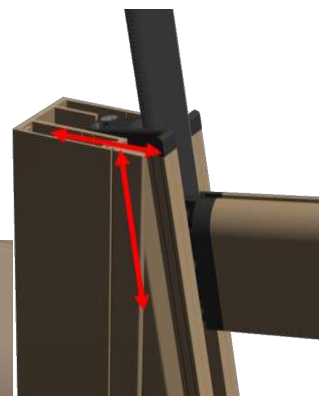
Tracks can be installed without needing to lift the bottom bar above the end retention



The zipper is secured to the end retention, which helps to reduce stress on the screen



The full-length zipper creates a clean, flush look by concealing the bottom bar in the hood



MaestroScreens | Wire System(s)

Wire & Free-Hanging Systems

Bracket System

#AC04-50

Hood System

5-1/2" (139mm) Rounded

Front Section #SM10F-5.5

Back Section #SM02B-5.5

5-1/2" (139mm) 45° Hood

#SM02-05.5

6 1/2" (165mm) 45° Hood

#SM04-06.5

7" (180mm) 45° Hood

#SM04-07

Hood Brush Seal

AC05-06/Black (1")

AC05-07/Black (0.75")

Motor Tube(s)

Inner Tube

#EX01-16/24A

XL System: #EX01-08/24

Outer Tube

#EX01-14/24A

#EX01-18/24A

XL System: #EX01-19/26

Wire

#AC01-W90/1

(H) Bottom Brush Seal

#AC05-01/Black: .75"

#AC05-03: 1.25"

#AC05-04: 1.90"

(E) Bottom Bar End Retention(s)

#WR8001

Side Cap(s)

5 1/2" (139mm)

#CA10-139
(rounded)

6.5" (165mm)

#CA05-165(45°)

7" (180mm)

#CA04-180(45°)

Wire Hood Bracket

#WR1055 (5.5")

#WR1065 (6.5")

Fabric

A variety of styles & colors to choose from.

Weight Bar & Bottom Bar

#WSA9001

XL #WSA9001HD

Bottom Secured

Base Plate #WR1001

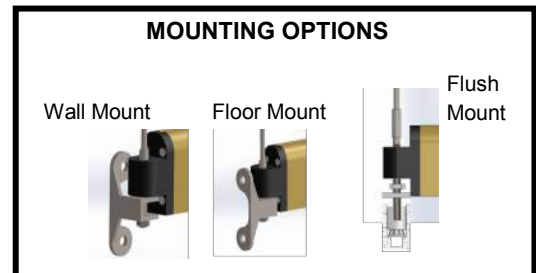
Swage #AC01-W92

Bungee #WR7001

MaestroScreens | Wire System(s)

Styles, Choices, Options

Options	Free-Hanging	Wire System
5.5" 45 Degree Side Cap	✗	✗
5.5" Rounded Side Cap	✓	✓
7" 45 Degree Side Cap	✓	✓
Bracket System	✓	✓
Wide Bottom Bar	✓	✓
Slim Bottom Bar	✗	✗
Bottom Bar Brush Seal (.75", 1.25", 1.9")	✓	✓
Bottom Bar Rubber Seal	✓	✓
Control Options:		
Motor (Hybrid, Smart, Rebound)	✓	✓
Manual Gear	✓	✓
Mounting Options:		
Side Mounted	✓	✓
Floor Mounted	✓	✓
Back Mounted	✓	✓



ITEM	Free-Hanging
Base Plate	WR1001
Custom Wire Assemblies	WR7001

ITEM	Up to 8'	Up to 12'	Up to 16'
Wall Mount	WRSM-08	WRSM-12	WRSM-16
Floor Mount	WRFM-08	WRFM-12	WRFM-16

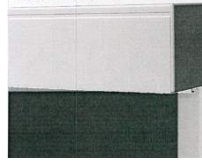
Add-Ons:

- Crank Handle (5', 6.4', 10')
- Multi-Channel Remote Controllers (1, 6, 15)
- LED (White & Blue)
- Smart Wifi Controller
- Home Automation Interface
- Wind Sun Sensor

MaestroScreens | Hoods

MaestroShield Hoods	
Wall Thickness	1.5mm (.06') (66% thicker than bent)
Packing	Stacks for ease and secure packing
Shipping	Less expensive, or shipping damages
Inventory	Less needed—common pieces
Powder Coat Warranty	10-year warranty on powder coating (1-year in coastal regions within 1 mile of saltwater coastline)

Square Hood



45° 5-Sided Hood



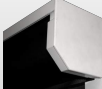
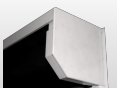
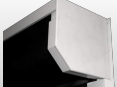
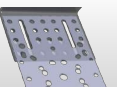
Rounded Hood



Hoods available in white, ivory, beige, and bronze

Extruded Hoods

- Approx. 20% less expensive than bent hoods
- 10-year warranty on powder coat
- At 1.5mm (.06") thick, 66% thicker walls than bent hoods; more resistant to denting during shipping and handling.

Hood Sizes and Installations Restrictions		Hood Part Number	Side Cap	Compatibility	Hood Type
	4" (102mm)	Front SM06F-4.0 Back SM06B-4.0	Square Side Cap (CA06-102)	Compatible with Square Hoods	Extruded 6063-T6 Powder coated Aluminum; Front and Back Sold separately;
	5.5 " (139mm) For up to 17' (5.18m) Wide x 17' (5.18m) Tall w/ 3.5" (8.89cm) tube & 23' (7.0m) x 12' (3.65m) w/ 4"(10.16cm) tube	Hood back (SM02B-5.5)	5.5" (139mm) 45° Side Cap or 5.5" (139mm) Rounded side Cap	Compatible with both Rounded and 45° Hoods	
		45° Hood Front (SM02F-5.5)	Impact-Rated 5.5" (139mm) 45° Side cap w/ leg (CA02-139) Different Left and Right	Compatible with Slim Surface Mount Track	
		Rounded Hood Front (SM10F-5.5)	Impact-Rated 5.5" (139mm) Rounded Side Cap (CA10-139) Works on Left or Right	Compatible with the Slim Surface Mount Track as well as the Adjustable Track	
	5½ (139mm) for up to 30'(7.9m) Wide	Front & Back (SM04-05.5)	5.5" (139mm) 45° Side Cap (CA03-139)		Roll Formed Aluminum; Sold by Foot
	6½ (165mm) for up to 30'(7.9m) Wide	Front & Back (SM05-06.5)	6.5" (165mm) 45° Side Cap (CA05-165) Works on Left or Right		Roll Formed Aluminum; Sold by Foot
	7" (180mm) for up to 30'(7.9m) Wide	Front & Back (SM04-07)	7" (180mm) 45° Side Cap (CA04-180)		Roll Formed Aluminum; Sold by Foot
	Bracket For up to 30' (7.9m) Wide	N/A	Small Angled Bracket (AC03-10 & AC03-50A)		No Hood
		N/A	Universal Bracket Plate (AC04-50)		

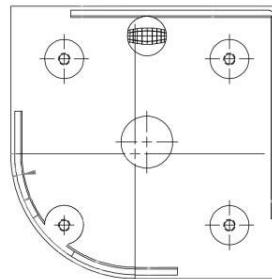
MaestroScreens | Side Cap Comparisons

Rounded Side Cap

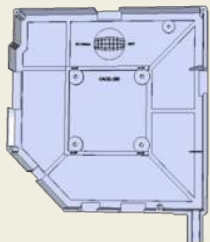
	MaestroShield Side Cap	Universal Side Cap
Thickness of Casting	6mm (.24")	3.2mm (.125")
Threaded Inserts for Motor Plates	Threaded Galvanized Steel Insert - 6.85mm (.27") deep	Threaded Aluminum - 3mm (.125") deep (Some not threaded)
Powder Coat Warranty	10-year	1-year
Openings - for Manual Crank	Yes - In all three positions	Not in all positions (requires drilling)
Adjustable Hood for flush appearance	Yes	No

Impact-Rated Rounded Side Caps		
Size	Weight	Item #
5-1/2"	0.75 lbs (.34 kgs)	CA10-139

Internal galvanized steel inserts for easy installation of motor plates for a clean appearance



45° Side Cap

	Component Name	Item #	Specifications
	Impact-Rated 5 1/2"(139mm) Side Cap	CA02-139	Weight - 0.75 lbs (.34kgs); 10-year powder coating warranty; thread inserts with galvanized steel so there is no need to drill holes; fits universal 45° hood



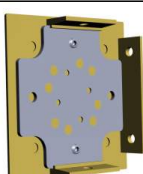
5 1/2" Impact Rated (139mm)

- At 6mm (.24") thick, twice as thick as universal standard side cap
- Threaded galvanized steel inserts for mounting fastener plates
- Greater depth of threaded inserts for stronger connection
- Threaded inserts for mounting mini receiver
- Openings in casting for mounting manual crank without drilling
- Hood is adjustable into side cap for flush appearance

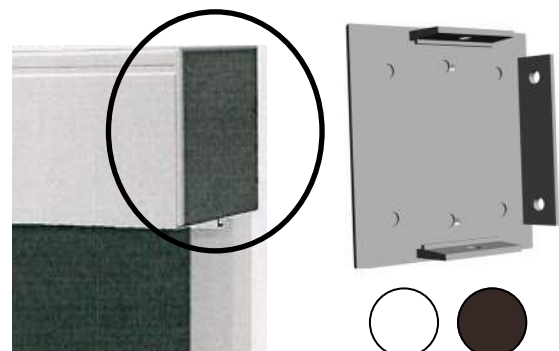


Side Caps available in white, ivory, beige, and bronze

Square Side Cap

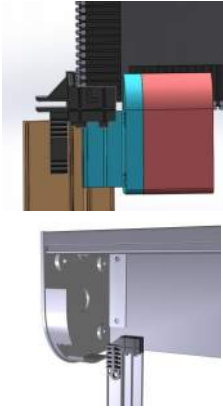
Square Side Caps pairs with 4" Extruded Hood			
	Size	Weight	Item #
	4" (106mm)	0.25 lbs	CA06-102

- Compact size.
- Modern design.
- Great for sizes up to 16' wide x 10' height



Square hoods available in white, bronze. Other customs available through custom order.

MaestroScreens | Guides & Bottom Bar



Entry Guide — Slim Track

	Component Name	Item #	Specifications
		WS9004C	Black nylon; seamlessly guides screen into side rails; sold in pairs
	Slim Track Nylon Entry Guide	WS9008	Black nylon heavy duty; seamlessly guides screen into side rails; sold in pairs. <i>(Use with Bracket System, 5.5" Rounded Hood, 6.5" 45 degree Hood)</i>

Entry Guide — Adjustable Track

	Component Name	Item #	Specifications
	Adjustable Track Nylon Entry Guide	WS9045	Black nylon; seamlessly guides screen into side rails; sold in pairs



Bottom Bar End Retention (s)

	Component Name	Item #	Specifications
	SLIM Bottom Bar—End Retention for Slim Track	WS9003A	Nylon; sold in pairs
	SLIM Bottom Bar—End Retention for Adjustable Track	WS9043	Nylon; sold in pairs
	XL System Bottom Bar—End Retention for Adjustable Track	WS9049HD	Nylon; sold in pairs

MaestroScreen Bottom Bar(s)

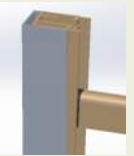
Choice of 2 piece bottom bar, or our 1-piece Heavy duty bottom bar. Retains a taut screen; weighted down with marine grade stainless steel to avoid corrosion

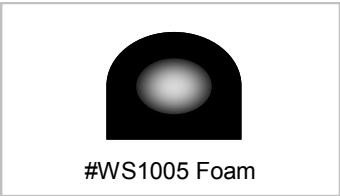
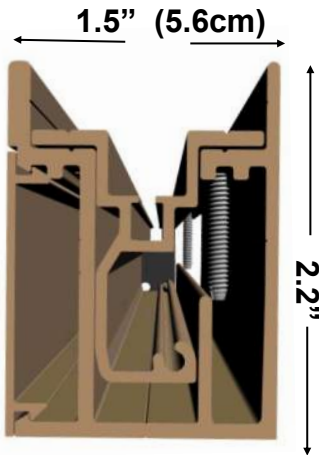


	Component Name	Item #	Specifications
	Maestro Screen Bottom Bar	WSA9001F (Front) WSA9001B (Back)	2-piece sold in 21' (6.4m) lengths. (Weighted down with corrosion resistant stainless steel bar)
	Maestro Screen XL SYSTEM Bottom Bar	WSA900HD (1 piece)	1-Piece Heavy Duty Bottom Bar for wider widths, up to 30' (9.14m)
	Maestro Weight Bar	WSA9001	1/2" Square Stainless Steel

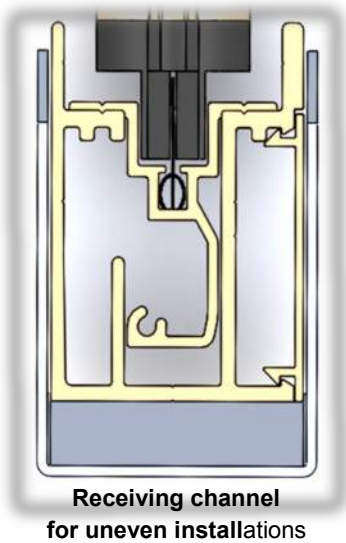
MaestroScreens | Side Tracks

MaestroScreens Adjustable Track System with Foam Inserts and Receiving Channel

 	Component Name	Item #	Specifications
	MaestroScreen Adjustable Track	Inner Track WSA9040F Side Rail Cover WSA9040C Outer Track WSA9040B	Three piece track system. Sold in 24' (7.3m) lengths. 1.5" x 2.2" (5.6cm x 3.8cm) Available in White, Ivory, Bronze and Beige.
	Receiving Channel	WSA9050U	1.5" wide x 2" tall. Sold in 24' Optional used for uneven mounting surfaces. Available in White, Ivory, Bronze and Beige.



This MaestroShield track design allows for flexible installation of tracks on uneven mounting surfaces. The simplified installation procedure creates a clean and professional finish; Simply install and lower the screen, push the inner tracks until they are tight, and then screw the two parts together.



MaestroScreens Slim (surface) Track

Two piece side rail snaps together with no visible screws for a clean elegant appearance

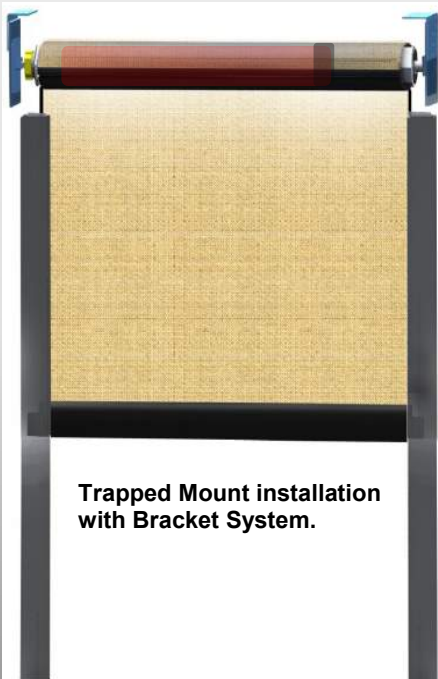
	Component Name	Item #	Specifications
	MaestroScreen (surface) Slim Track	WSA9002F (Front) WSA9002B (Back)	2.0" (5.08cm) W X 0.6" (.15cm) D; 2-piece front and back snap together for clean, finished look with no visible screws; sold in 21' (6.4m) and 24' (7.3m) lengths

MaestroScreens | Adjustable Track

Adjustable Track Bracket System

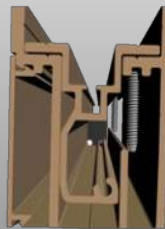
Features our adjustable mounting bracket system.
“Perfect for trapped or surface mount installations.”

- Two piece track allows for forgiveness with great adjust ability.
- Two installation options available: **Bracket System** or **(Surface Mount with Rounded Hood)**.
- Features MaestrosShield' zipper track retention for superior tension all the way across.
- **Super easy to install seamless bracket system hides the screen almost entirely when in use.**



Trapped Mount installation
with Bracket System.

- Features our new innovative dual track system.
- Features our adjustable mounting bracket system. Perfect for trapped or face mount installations
- Hood assembly option. Not required.
- Features MaestroShield's zipper track retention



Surface Mount with hood or
bracket installation option.
(Hole caps in all colors available
to create seamless look.)



#WS1005
Foam

Adjustable Track System Foam

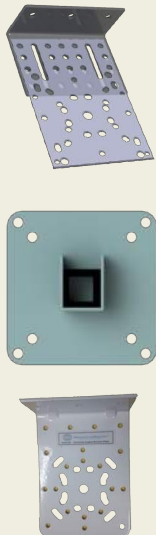
Adjustable system with inner and outer track, makes difficult installations easier. Foam tubing placed between inner & outer tracks allow flexibility & adjustability. “D” Shaped Foam with sticky taped service.



MaestroScreens | Adjustable Track

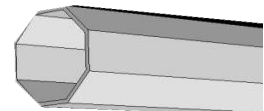
Adjustable Track Bracket System

- This universal bracket system is adjustable for your choice of installation between a trapped install and a face mounted install.
- No hood assembly required

	Component Name	Item #	Specifications
	Small Angle Bracket	AC03-10	Polyurethane Powder-Coated Steel; for use with Small Angle Bracket (AC0310), 6"x4" (15.24cm x 10.16cm)
	Universal Bracket Plate	AC03-50	
	Idle Bearing Cradle	AC03-40	Polyurethane Powder-Coated Steel; includes Plastic Cap and Setting Pin; pre-drilled, 100mm X 100mm (3.937" x 3.937")
	Universal Angled Bracket Plate	AC04-50	Polyurethane Powder-Coated Steel; 4" (10.16cm) Angle for bracket mounting system

MaestroScreens Inner Tubes

	Component Name	Item #	Specifications
	60mm Tube	EX01-16/24A	60mm Octagonal; ID57mm, OD62mm; Sold in Lengths of 24' (7.31m). Used with 3.5" and 4" outer tube.
	86mm Tube	EX01-08/24	86mm Inner Tube Sold in Lengths of 24' (7.31m). Used with 5.5" outer tube.

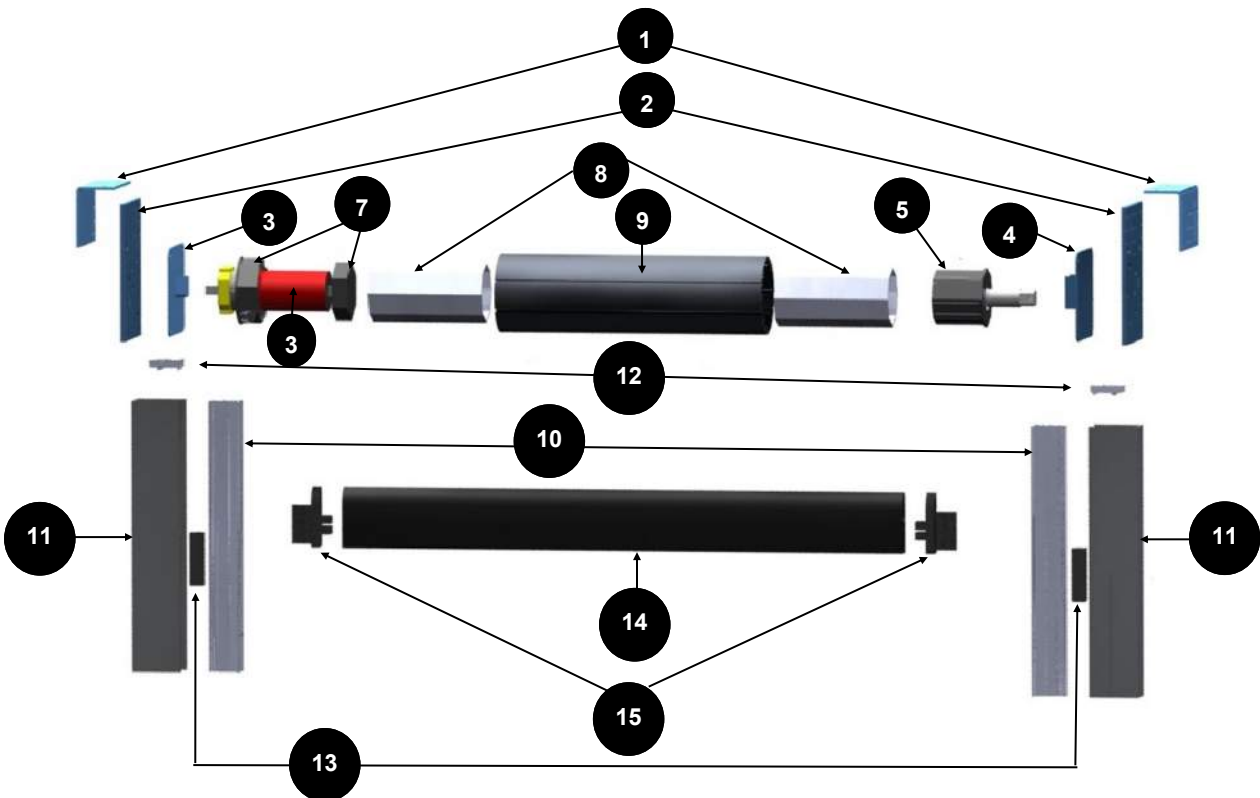


MaestroScreens Outer Motor Tube(s)

	Component Name	Item #	Specifications
	3 1/2" (8.9cm) Outer Tube	EX01-14/24A	88mm Round; ID—63mm, OD—88mm; sold in 24' (7.3m) lengths. For installations up to 12' (3.65m) tall x 17' (7.31m) wide.
	4" (10cm) Outer Tube	EX01-18/24A	108mm Round; ID—63mm, OD—108mm; sold in 24' (6.4m) lengths & 24' (7.3m) lengths. For installations up to 23' (6.4m) tall x 17' (7.31m) wide.
	5 1/2" (13.9cm) Outer Tube	EX01-19/26 or 19/30	XL System Outer Tube. Outer Dimension 5.5" (13.9cm) sold in 26' (7.92m) lengths & 30' (9.14m) lengths.

MaestroScreens

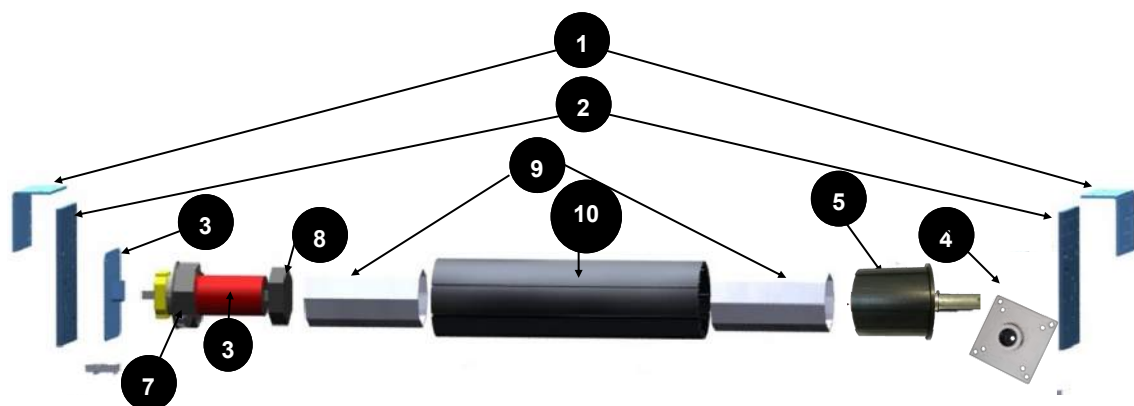
| Adjustable Track Components



Adjustable Track System Assembly Components

#	Component	Item #	#	Component	Item #
1	Angled Mounting Bracket	AC03-10	10	Inner Track	WSA9040F
2	Mounting Bracket	AC03-50A	11	Track Cover	WSA9040C
3	Motor Bracket	AC03-04	12	Outer Track	WSA9040B
4	Idler Bracket	AC03-40	13	Entry Guide	WS9045
5	Idler Bearing	AC02-12 AC02-12-SL (w/Spring)	14	Track Foam	WS1005
			15	Bottom Bar	WSA9001F WSA9001B
6	Motor	Variable	16	End Retention	WS9043 or WS9049HD
7	Crown & Drive Gear	TMUS-600C3 TMUS-600G3	17	3/4", 1-1/4", 1.9" Brush Seal Black	AC05-01 (3/4) AC05-03 (1-1/4) AC05-04 (1.9")
				3.75" Rubber Seal	WS1010
8	Inner Tube (60mm)	EX01-16/24A	18	Weight Bar	WSA9001
9	Outer Tube " (10cm)	EX01-18/24A	19	Spline	WS1003

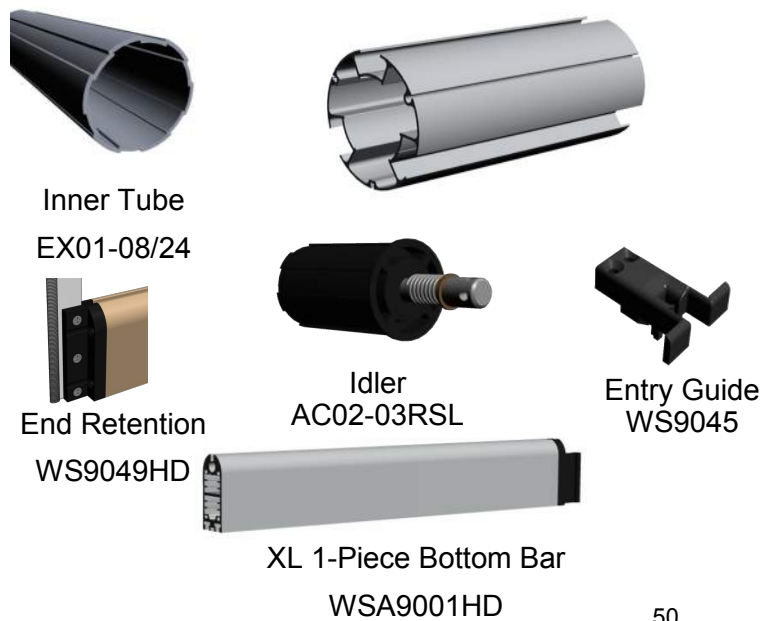
MaestroScreens | XL Adjustable Track Components



Adjustable Track XL System Assembly Components					
#	Component	Item #	#	Component	Item #
1	Angled mounting bracket	AC03-10	6	Motor	20 & 50 Nm
2	Mounting bracket	AC03-50	7	Crown	TMUS-45UC
3	Motor bracket	AC03-04 AC03-13 AC03-1201	8	Drive gear	TMUS-45G
4	Idler cradle	AC02-11	9	Inner tube (86mm)	EX01-08/24
5	Idler Bearing	AC02-03RSL	10	Outer tube (5.5)	EX01-19/26 EX01-19/30

XL SYSTEM: Designed optional components to work within our superior exterior screen systems for wider widths up to 30' (9.1m).

NOTE: Bracket type varies depending on motor



Finish Options:

Brush or Rubber Seal			
#	Component	Item #	Color
1	3/4" Brush Seal	AC05-01	Black
2	1-1/4" Brush Seal	AC05-03	Black
3	1.9" Brush Seal	AC05-04	Black
4	3.75" Rubber Seal	WS1010	Black
5	.75" Hood Brush Seal	AC05-07	Black
6	1" Hood Brush Seal	AC05-06	Black

MaestroScreens | Product Detail — Fabric Options

Fabrics



Available Colors/Types:

- > Brown (#80 & #90)
 - > Black (#80/#90/#95/#97/#99)
 - > Grey (#80/#90)
 - > Stucco (#80/#90/#95)
 - > Beige (#80/#90)
 - > Dark Bronze (#80/#90/#95)
 - > White (#80/#95/#97/Blackout)
 - > Carbon (#95 only)
 - > Mocha (#95 only)
 - > White/Grey (#95 only)
 - > Alpaca (#95 only)
 - > Sand (#95 only)
 - > Chestnut (#95 only)
 - > Charcoal (#97/#99)
 - > Tobacco (#97/#99)
 - > Tuff Super *(black or white)
 - > NoSee'Um (black Insect Screen)
 - > NoSee'Um (17x20 Insect Screen)
 - > NoSee'Um (23x21 Insect Screen)
 - > Granite(#97/#99)
 - > EspressoTexture (#97/#99)
 - > Vinyl (clear) / Weblon
- Custom fabrics available. Many manufacturers to choose from.

10* YEAR SCREEN FABRIC WARRANTY: *Most fabric manufacturer's offer 10 year warranty on fabric(s). All fabric warranty claims are a pass-through warranty and are administered by the fabric manufacturer. Please contact fabric manufacturer for details on any warranty coverage information. MaestroShield assumes no responsibility for claims made on defective and/or malfunctioning fabrics either separately or as a component of screen assembly.

NOTE: MaestroScreens is not rated for wind abatement. Some "sailing" will occur in windy conditions and it is recommended that the screen is only raised or lowered when the wind subsides.

Motor Lift Capacity | Motor Options (5v, 12v, 120v, 220v)

REBOUND / REBOUND BIDIRECTIONAL / SMART Motors 20—50 Nm with Built-In Receiver (see index for motor section) - Without Manual Override 5 year 100% replacement Warranty coverage - Easy-to-Set Electronic Limit Switch - Electronic limit setting - Universal Accessories, Crown and Drive Gears for 60mm motor tubes and others available.	Motor Torque	Max Lift Capacity per Tube Size		
		3.5" Motor Tube	4" Motor Tube	5.5" Motor Tube
	20 Nm	77 lbs (34 kg)	66 lbs (29 kg)	48 lbs (22 kg)
	50 Nm	192 lbs (87 kg)	164 lbs (74 kg)	120 lbs (59 kg)

HYBRID / HYBRID BIDIRECTIONAL* Motors 20—50 Nm with Built-In Receiver (see index for motor section) - With and without Manual Override 5 year 100% replacement Warranty coverage - Mechanically set limits with dual sided limit access - Universal Accessories, Crown and Drive Gears for 60mm motor tubes and others available. *Bidirectional also available in 50Nm	Motor Torque	Max Lift Capacity per Tube Size		
		3.5" Motor Tube	4" Motor Tube	5.5" Motor Tube
	20 Nm	77 lbs (34 kg)	66 lbs (29 kg)	48 lbs (22 kg)
	50 Nm	192 lbs (87 kg)	164 lbs (74 kg)	120 lbs (59 kg)

Battery/DC (Lithium) Motors Motors 1.1Nm—13 Nm with Built-In Receiver (see index for motor section) - Without Manual Override 2 year 100% replacement Warranty coverage - Electronic set limits - Universal Accessories, Crown and Drive Gears for 60mm motor tubes and others available.	Motor Torque	Max Lift Capacity per Tube Size		
		3.125" (78mm) Motor Tube	3.5" Motor Tube	4" Motor Tube
	6 Nm	25 lbs (11 kg)	23 lbs (10 kg)	20 lbs (9 kg)
	13 Nm	42 lbs (19 kg)	38 lbs (17 kg)	33 lbs (15 kg)

STANDARD Motors 20-50 Nm (no Built-in Receiver) (see index for motor section) - With and without Manual Override 5 year 100% replacement Warranty coverage - Easy-to-Set Electronic Limit Switch - Mechanically set limits - Mini-Receiver available separately - Universal Accessories for 20Nm to 50Nm: Crown, Drive for 60mm motor tubes and more - Universal Accessories for 60Nm to 120Nm: Crown, Drive for 70mm motor tubes and more	Motor Torque	Max Lift Capacity per Tube Size		
		3.5" Motor Tube	4" Motor Tube	5.5" Motor Tube
	20 Nm (19 rpm)	77 lbs (34 kg)	66 lbs (29 kg)	48 lbs (22 kg)
	30 Nm	115 lbs (52 kg)	99 lbs (44 kg)	78 lbs (33 kg)
	35 Nm	134 lbs (60 kg)	116 lbs (52 kg)	89 lbs (30kg)
DC (12v): (no Built-in Receiver) Motors 20Nm, 35Nm, 50Nm - With and without Manual Override 2 year 100% replacement Warranty coverage	40 Nm	153 lbs (69 kg)	132 lbs (59 kg)	95 lbs (43 kg)
	50 Nm	192 lbs (87 kg)	164 lbs (74 kg)	120 lbs (59 kg)

Quick Zip | Assembled Units with 3" Housing

Product Information Quick Zip Screen System

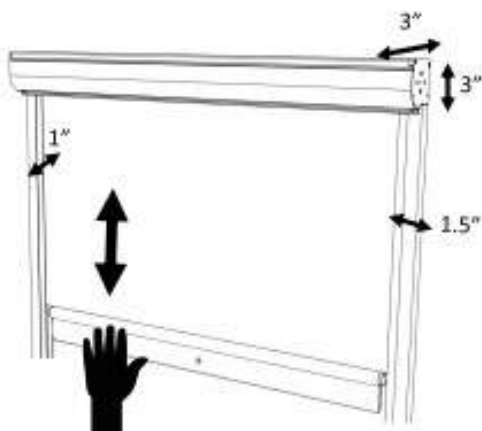
MaestroShield's Compact Hood System offers the benefits of our custom screen systems, but with a simple manual operation and a compact size. Like all MaestroShield products, this unit is designed for easy installation and maintenance-free operation for years to come.

Unlike competitors the screens are secure to both tracks, blocking all insects while also preventing the wind from hampering operation.

Choose from any of our popular insect and solar screen option, which will be sure to add comfort and enjoyment to your home or business!

FEATURES

- Quick and easy installation
- Easy Spring Loaded operation
- Screens up to 10ftw x 8fth
- Compact 3" Hood
- 2 year 100% replacement warranty coverage
- Includes a pole for easy reach and adjustment of the screen, while maintaining a clean product finish
- Available in white, custom colors are possible for an upcharge.



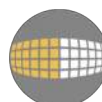
239-596-8883



order@maestroshield.com

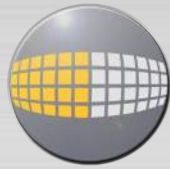


maestroscreens.com



MaestroShield®
Protection Like No Other

MaestroShield products are innovation at its best. We strive to develop the best products in the industry, and at the most competitive prices. Treat yourself to the service you deserve, with the quality and value you expect.



MaestroShield®

PROTECTION
Like No Other™

Tubular Motors

2022



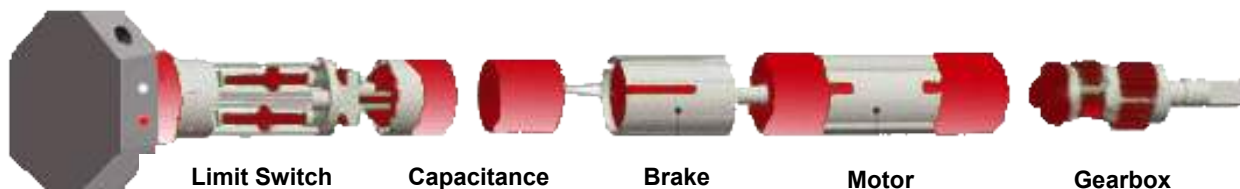
Motors for:

- Roll Down Shutters
- Motorized Interior Shading
- Projection Screens
- Roll Down Exterior Screen
- Rolling Awnings
- Rolling Doors and Grilles

Tubular Motors | Product Specifications

MaestroShield® motors are innovation at its best. Designed in-house by Swedish and American engineers, these industry leading components are the perfect marriage of power, precision and price. With multiple configurations available, the agility of our motors puts them in a class of their own. Designed and tested with quality in mind, MaestroShield® motors will greatly enhance your shutter, door, screen, awning and shading applications. These are only some of the reasons why MaestroShield® is superior to the competition.

Tubular Motor Anatomy



Features & Benefits:

- More than 50 sizes available to suit most applications and configurations
- More than 250 crown and drive gear combinations to fit virtually any motor tube size and shape.
- Durable universal mounting plates to fit tubular motors into a wide range of products.
- Easily programmed with a full suite of electronics
- Produced under ISO 9001 quality guidelines
- IP44 Rated
- **Limits:** Mechanically set and adjusted by hand with 8" (2.03cm) hex-shaped adjuster tool enclosed with each motor. Motor limits can be accessed on two facing sides of the motor head. The signature MaestroShield limits have a self-feeding spring on the limit adjuster to allow automatic re-feeding of the limit screw onto the adjustment shaft in case of over-setting the limits.
- **Internal Gearing:** done with Nylon and Metal components; no plastic is integrated into this portion of the MaestroShield motor.



Most Tubular Motors carry
a Full 5-Year 100% Re-
placement Warranty
(except DC motors (2 yr)
and Lithium Battery motors



MaestroShield®
Protection Like No Other



Tubular Motors | Index

Our AC motors come in standard, hybrid, hybrid with bidirectional technology, smart, rebound, rebound with bidirectional technology. Additionally we have a line of DC motors that include standard, and rebound bidirectional motors which work well with our solar panel. We have added motor packages that come bundled with associated crowns, drives, brackets that make buying simple. Item #'s ending in "pkg*" include crown, gear and/or bracket when applicable. The bidirectional technology enables visibility of position while viewing through the application, and are Dooya compatible. See Electronics section (pg 89) for our line of compatible products for each of our motors. We offer functionality, continuous quality and cutting edge technology.

TYPE LEGEND	Type	Receiver (built-in)	NM Up to	Manual Override	Limit Setting	Bidirectional	Electronics Type
Rebound	RB	X	50Nm	Both	Electronic		MSD
Rebound Bidirectional	RBD	X	50Nm	No	Electronic	X	MSBD
Hybrid	HY	X	120Nm	Both	Mechanical		MS / MSD
Hybrid Bidirectional	HY BD	X	100Nm	Yes	Mechanical	X	MSBD
Standard	STD	No Receiver**	300Nm	Both	Mechanical		MS / MSD
DC	DC	No Receiver**	50Nm	No	Mechanical		MS / MSD
DC Bidirectional	DC BD	X	13Nm	No	Electronic	X	MSBD
Smart	SMT	X	50Nm	No	Electronic		MS

Item #	TYPE	Torque	Speed	Manual Override	Limit Setting	Misc.	Receiver	Electronics	Page
REBOUND		(Nm)	(Rpm)	(Yes/No)	Mechanical Electronic		BUILT-IN (Yes/No)	Type	
TMRB45BDS-20/19PKG*	RBD	20	19	No	Electronic	Rebound / Bidirectional	Yes	MSBD	78
TMRB45BDS-50/13PKG*	RBD	50	13	No	Electronic	Rebound / Bidirectional	Yes	MSBD	78
TMRB45M-50/14	RB	50	14	Yes	Electronic	Shutter—Rebound	Yes	MSD	78
HYBRID		(Nm)	(Rpm)	(Yes/No)	Mechanical Electronic		BUILT-IN (Yes/No)	Type	
TMRS45M-20/30	HY	20	30	Yes	Mechanical		Yes	MS	75
TMRS45S-20/30	HY	20	30	No	Mechanical		Yes	MS	75
TMRS45S-20/30-13	HY	20	30	No	Mechanical	13ft Cord	Yes	MS	75
TMRS45M-50/12	HY	50	12	Yes	Mechanical		Yes	MS	75
TMRS45S-50/12	HY	50	12	No	Mechanical		Yes	MS	75
TMHY45M-50/13PKG*	HY	50	13	Yes	Mechanical		Yes	MSD	76
TMHY45BDM-50/13PKG*	HY BD	50	13	Yes	Mechanical	Bidirectional	Yes	MSBD	77
TMHY59BDM-100/11PKG*	HY BD	100	11	Yes	Mechanical	Bidirectional	Yes	MSBD	76
TMHY59M-120/9PKG*	HY	120	9	Yes	Mechanical		Yes	MSD	77

**requires separate purchase of external receiver to pair with remote control type

Tubular Motors | INDEX

Item #	TYPE	Torque	Speed	Manual Override	Limit Setting	Misc.	Receiver	Electronics	Page
STANDARD		(Nm)	(Rpm)	(Yes/No)	Mechanical Electronic		Built-In (Yes or No)		
TMUS35S-06/33	STD	6	33	No	Mechanical		No**	MS / MSD	66
TMUS45S-10/32	STD	10	32	No	Mechanical		No**	MS / MSD	66
TMUS45SQ-10/21	STD	10	21	No	Mechanical	Quiet	No**	MS / MSD	66
TMUS45M-20/19	STD	20	19	Yes	Mechanical		No**	MS / MSD	69
TMUS45M-20/32	STD	20	32	Yes	Mechanical		No**	MS / MSD	69
TMUS45S-20/19	STD	20	19	No	Mechanical		No**	MS / MSD	66
TMUS45S-20/32	STD	20	32	No	Mechanical		No**	MS / MSD	66
TMUS45M-30/13	STD	30	13	Yes	Mechanical		No**	MS / MSD	69
TMUS45S-30/13	STD	30	13	No	Mechanical		No**	MS / MSD	66
TMUS45M-40/13	STD	40	13	Yes	Mechanical		No**	MS / MSD	69
TMUS45M-50/13	STD	50	13	Yes	Mechanical		No**	MS / MSD	69
TMUS45M-50/13/Clutch	STD	50	13	Yes	Mechanical	Clutch	No**	MS / MSD	62
TMUS45S-50/13	STD	50	13	No	Mechanical		No**	MS / MSD	66
TMEU45M-50/13	STD	50	13	Yes	Mechanical	220v	No**	MS / MSD	69
TMEU-50M/02	STD	50	12	Yes	Mechanical	230v	No**	MS / MSD	69
TMUS59M-60/14	STD	60	14	Yes	Mechanical		No**	MS / MSD	71
TMUS59M-80/14	STD	80	14	Yes	Mechanical		No**	MS / MSD	71
TMUS59M-100/11	STD	100	11	Yes	Mechanical		No**	MS / MSD	71
TMUS59S-100/11	STD	100	11	No	Mechanical		No**	MS / MSD	66
TMUS59S-100/11/SS	STD	100	11	No	Mechanical	Short Shaft	No**	MS / MSD	
TMEU-100M/02	STD	100	12	Yes	Mechanical	230v	No**	MS / MSD	71
TMEU59M-100/11	STD	100	11	Yes	Mechanical	220v	No**	MS / MSD	71
TMUS59M-120/9	STD	120	9	Yes	Mechanical		No**	MS / MSD	71
TMEU59M-120/8	STD	120	8	Yes	Mechanical	220v	No**	MS / MSD	71
TMUS-140M/03	STD	140	3	No	Mechanical		No**	MS / MSD	74
TMUS92S-140/12	STD	140	12	No	Mechanical		No**	MS / MSD	73
TMUS92M-180/12	STD	180	12	Yes	Mechanical		No**	MS / MSD	74
TMUS92S-180/12	STD	180	12	No	Mechanical		No**	MS / MSD	73
TMUS92M-230/12	STD	230	12	Yes	Mechanical		No**	MS / MSD	74
TMUS92S-230/12	STD	230	12	No	Mechanical		No**	MS / MSD	73
TMUS92M-300/8	STD	300	8	Yes	Mechanical		No**	MS / MSD	74
TMUS92S-300/8	STD	300	8	No	Mechanical		No**	MS / MSD	73
TMEU02-300M	STD	300	8	Yes	Mechanical	230v	No**	MS / MSD	74
TMUS92M-330/9.5NL	STD	330	9.5	Yes	Mechanical	No	No**	MS / MSD	

**requires separate purchase of external receiver to pair with remote control type

Tubular Motors | Index

Item #	TYPE	Torque	Speed	Manual Override	Limit Setting	Misc.	Receiver	Electronics	Page
DC / DC Battery Motors (Use: Interior / Solar Panel)		(Nm)	(Rpm)	(Yes/No)	Mechanical Electronic		Built-In (Yes or No)		
TMDC-3W/12V	DC	3	24	No	Mechanical	12v	No**	MS / MSD	63
TMDC-6W/12V-12	DC	6	12	No	Mechanical	12v	No**	MS / MSD	63
TMDC-6W/12V-24	DC	6	24	No	Mechanical	24v	No**	MS	63
TMDCQ-6W/12V-20	DC	6	20	No	Mechanical	12v	No**	MS / MSD	63
TMDC-20W/12V	DC	20	14	No	Mechanical	12v	No**	MS / MSD	63
TMDC-35W/7V	DC	35	7	No	Mechanical	12v	No**	MS / MSD	63
TMDC-50W/12V	DC	50	12	No	Mechanical	12v	No**	MS / MSD	63
TMDC-.7W/12V	DC Battery	.7	34	No	Electronic	12v	No	MS / MSD	63
TMDC25BD-1.1/28PKG	DC Battery	1.1	28	No	Electronic	12v / Bidirectional	Yes	MSBD	79
TMDC28BD-2/28PKG	DC Battery	2	28	No	Electronic	5v / Bidirectional	Yes	MSBD	79
TMDC45BD-3/28	DC Battery	3	28	No	Electronic	Bidirectional	Yes	MSBD	79
TMDC45BD-6/24	DC Battery	6	24	No	Electronic	5v / Bidirectional	Yes	MSBD	79
TMDC45BDQ-10/9	DC Battery	10	9	No	Electronic	5v / Bidirectional	Yes	MSBD	79
TMDC45BDQ-13/13PKG*	DC Battery	13	13	No	Electronic	5v / Bidirectional	Yes	MSBD	79
SMART / SMART DC Battery	TYPE	(Nm)	(Rpm)	(Yes/No)	Mechanical Electronic	Misc	Built-In (Yes or No)	Electronics	Page
ELSTM25BD-1.5/32	SMT AC	1.5	32	No	Electronic	Bidirectional	Yes	MSBD	79
ELSTM45BDQ-10/21	SMT AC	10	21	No	Electronic	120v	Yes	MSBD	79
SSWR06/28	SMT	6	28	No	Electronic	Silent Motor	Yes	MS	58
ELSTM06/28	SMT	6	28	No	Electronic		Yes	MS	60
ELSTM20/30	SMT	20	30	No	Electronic		Yes	MS	60
ELSTM50/12	SMT	50	12	No	Electronic		Yes	MS	60

Item #	TYPE	Torque	Speed	Manual Override	Limit Setting	Misc.	Receiver	Electronics	Page
HYBRID MOTOR PACKAGES		(Nm)	(Rpm)	(Yes/No)	Mechanical Electronic		Built-In (Yes or No)		
TMHY45M-50/13PKG*	HY	50	13	Yes	Mechanical		Yes	MSD	76
TMHY45BDM-50/13PKG*	HY BD	50	13	Yes	Mechanical	Bidirectional	Yes	MSBD	77
TMHY59BDM-100/11PKG*	HY BD	100	11	Yes	Mechanical	Bidirectional	Yes	MSBD	76
TMHY59M-120/9PKG*	HY	120	9	Yes	Mechanical		Yes	MSD	77

For your convenience our Hybrid line of Motors Packages comes bundled with crown(s), drive(s), and bracket(s) when applicable for 60mm and 70mm motor tubes. Great for Shutter applications!

*Note: When ordering, item #'s with a "pkg" ending include crown, gear and/or bracket if applicable)

**Requires separate purchase of external receiver to pair with remote control type

Tubular Motors | SMART (SMT) (MS)

| AC 6-50 Nm No Manual Override

Standard Features Include:

- Built-in Receiver
- Easy-to-Set Electronic Limit Switch
- Replacement Warranty 5 yr. (1 yr. for lithium battery motors, and 2 yrs for DC motors)
- Lifting capacities in excess of 365 lbs. (165.56 kgs)
- Universal Accessories, Crown and Drive Gears for a variety of motor tubes.



6 Nm AC Motor



20Nm—50Nm AC Motor

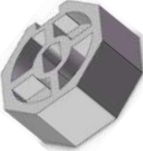
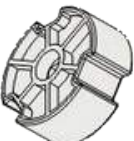
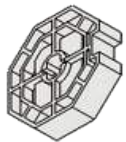
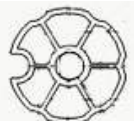
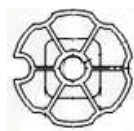
AC Motors • 110 -120V / 60Hz

Item #	Torque	Speed	Diameter	Voltage	Input Power	Current	Lifting Weight		Motor Length
	(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)
ELSTM06/28	6	28	35/1.377"	110-120	130	1.1	≤ 40	≤ 18.14	19" / 48.26
ELSTM20/30	20	30	44.5/1.75"	110-120	250	1.98	≤ 112	≤ 50.80	22.5" / 57.15"
ELSTM50/12	50	12	44.5/1.75"	110-120	200	1.98	≤ 275	≤ 124.73	22.5" / 57.15"

Tubular Motors

| SMART AC 6-50 Nm

| Crown / Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
3—50 Nm Motors Crown and Drive 44.5mm Diameter ONLY				
 Or No Crown Needed		Crown: TMUS35-46.5RC (for ELSTM03/33) Crown: Or None Needed Drive: TMUS-SG213	2" (50mm) Round Tube	Ø46.5mm / 1 7/8"
		Crown: TMUS-600C3 Drive: TMUS-60OG3	2.36" (60mm) Octangular Tube	Ø57.6mm / 2.27" Ø56.2mm / 2.21"
		Crown: TMUS-SC161 Drive: TMUS-SG162	2.5" (63mm) Round Tube	Ø60.5mm / 2 3/8"
		Crown: TMUS-SC259 Drive: TMUS-SG260	2.5" (65mm) Round Tube	Ø63.3mm / 2 1/2"
		Crown: TMUS-SC276 Drive: TMUS-SG277	2.75" (70mm) Octangular Tube	Ø66mm / 2 5/8"
		Crown: TMUS-SC166 Drive: TMUS-SG65	2.75" (70mm) Round Tube	Ø65mm / 2 9/16"
		Crown: TMUS-SC309 Drive: TMUS-SG310	3" (78mm) Round Tube	Ø74.5mm / 2 15/16"

Tubular Motors

| Standard / Clutch Release (STD) (MS/MSD)

| Crown / Drive Gears

Standard Features Include:

This innovative and versatile motor allows unique configurations and operations of traditional rolling systems:

- Panic release and recoil of deployed units when clutch is disengaged — Ideal for emergency egress for fire safety compliance
- Manual uncoiling and motorized recoiling of horizontally mounted rolling units
- Easily programmed with full suite of electronics.
- Universal Accessories, Crown and Drive Gears to fit any tube over 70mm wide (2.75") and recoil spring are available.
- Supported by a 2-year full replacement warranty (1 yr. for lithium battery motor, w yr. for DC motors, 5 yr. all other AC motors)



Motor comes with one Clutch Motor Locking System. Additional locking systems available separately.

Clutch Motor Locking System

Item # AC04-01

Includes key



Key releases wire for emergency

Standard Clutch Release Motor - with Override • 110 -120V / 60Hz

Item #	Torque		Speed	Diameter	Voltage	Input Power	Current	Motor Length	Running Time
	(Nm)	(Lbs/kgs)	(rpm)	(mm / in)	(V)	(Hz)	(A)	(cm / in)	(min.)
TMUS45M-50/13/ Clutch	50	442 / 200.48	13	45 / 1.77"	110-120	60	2.2	65.4 / 25¾"	4

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
50Nm Clutch Release Motors Crown and Drive				
		Crown: TMUS-59OC Drive: TMUS-45OG	70mm Octagonal Tube	Ø67.5mm / 2.66" Ø66.7mm / 2.63"
		Crown: TMUS-59C Drive: TMUS-45G	86mm Profiled Tube	Ø79mm / 3.11" Ø79mm / 3.11"

Tubular Motors | DC Motors (DC) (MS / MSD)

Standard Features Include:

- Quiet 12V motors
- 47.5 decibel sound output
- Replacement Warranty 2 yr. (1 Yr. for Lithium Battery Motors, 5 yr. for AC Motors)
- No Manual Override
- Lifting capacities in excess of 295 lbs. (133.81 kgs)
- Mechanically set limits with dual sided limit access; 8" (2.03cm) long hexagonal limit adjuster tool together with wiring manuals included with each motor
- Universal Accessories, Crown and Drive Gears for motor tubes 38mm or (1-inch) and over are available

Note: 0.7Nm motor includes crown and drive for 1" (2.54cm) round motor tube

Note: TMDCQ = exceptionally "quiet" run sound



0.7 Nm DC Motor



3—6 Nm DC Motor



20—50 Nm DC Motor

DC Motors • 12V

Item #	Torque	Speed	Diameter	Motor Length	Voltage	Input Power	Current	Lifting Weight		Running Time
	(Nm)	(rpm)	(mm/in)	(cm/in)	(V)	(W)	(A)	(Lbs)	(Kg)	(min)
TMDC-.7W/12V	0.7	34	25 / .98"	27.94 / 11"	12	6.5	0.55	≤ 5	≤ 2.3	4
TMDC-3W/12V	3	24	35 / 1.377"	50.8 / 20"	12	33.7	3.00	≤ 25	≤ 11	4
TMDCQ-6W/12V-20	6	20	35 / 1.377"	50.8 / 20"	12	42.7	4.00	≤ 50	≤ 22	4
TMDC-6W/12V-24	6	24	35 / 1.377"	50.8 / 20"	12	42.7	4.00	≤ 50	≤ 22	4
TMDC-20W/12V	20	14	45 / 1.77"	55.88 / 22"	12	52.8	4.40	≤ 110	≤ 50	4
TMDC-35W/12V	35	7	45 / 1.77"	55.88 / 22"	12	84.0	7.00	≤ 190	≤ 86	4
TMDC-50W/12V	50	12	45 / 1.77"	55.88 / 22"	12				≤	4

Tubular Motors

| Standard: 0.7-35 Nm

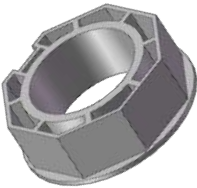
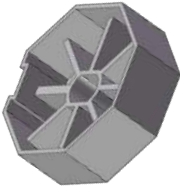
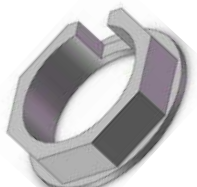
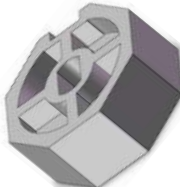
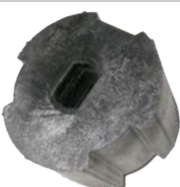
| Crown / Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
0.7 Nm Motors (25mm (.98") diameter ONLY)				
		Crown: TMUS-C241 Drive Gear: TMUS-G265	Rollease 1.5" Tube (3.8cm)	Ø35.8mm / 1.41" Ø35.7mm / 1.41"
3—6 Nm Motors (35mm (1.37") diameter ONLY)				
		Crown: TMUS35-46.5RC Drive Gear: TMUS45-46.5RG	2" (50mm) Round Tube (5.08cm)	Ø46.3mm / 1.82" Ø46.5mm / 1.83"
NO CROWN NEEDED		Drive Gear: TMUS35-35RG	1½" (40mm) Round Tube (3.8cm)	Ø36.2mm / 1.43"
NO CROWN NEEDED		Drive Gear: TMUS-G14	Acmeda 44mm Tube (1.73")	Ø41mm / 1.61"
3—35 Nm Motors (35mm (1.37") and 45mm (1.77") diameter ONLY)				
		Crown: TMUS-C118 Drive Gear: TMUS-G22	2" / 55mm Round Tube (5.08cm)	Ø46mm / 1.81" Ø45.5mm / 1.79"
	Various Drive Gears	Crown: TMUS35-60OC	Compatible with crowns fitting 10-50 Nm motors	Ø46mm / 1.81"

Tubular Motors

| Standard: 0.7-35 Nm

| Crown / Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
20—35 Nm Motors (45mm (1.77") diameter ONLY)				
		Crown: TMUS-45OC Drive Gear: TMUS-45OG	70mm Octagonal Tube (2.75")	Ø67.4mm / 2.65" Ø66.7mm / 2.63"
		Crown: TMUS-60OC3 Drive Gear: TMUS-60OG3	60mm Octagonal Tube (2.36")	Ø57.6mm / 2.27" Ø56.2mm / 2.21"
		Crown: TMUS-54C Drive Gear: TMUS-54G	60mm Round Tube (2.36")	Ø54.5mm / 2.15" Ø53.5mm / 2.11"
NO CROWN NEEDED		Drive Gear: TMUS45-46.5RG	2" / 50mm Round Tube	Ø46.5mm / 1.83"
NO CROWN NEEDED		Drive Gear: TMUS-G02	Acmeda 56mm Tube (2.20")	Ø51.6mm / 2.03"

Tubular Motors

| Standard: 6 Nm-100 Nm (STD) (MS / MSD)

| No Manual Override

Standard Features Include:

- Quiet 120V motor series
- 5 year 100% replacement Warranty coverage. (2 yr. for DC motors, 1 yr. for Lithium battery motors)
- No Manual Override
- Lifting capacities in excess of 396 lbs. (179.62kgs)
- Mechanically set limits with dual sided limit access; 8" (2.03cm) long hexagonal limit adjuster tool together with wiring manuals included in each motor.
- Universal Accessories, Crown and Drive Gears for motor tubes 38mm or (1-in) and over are available.

Note: TMUS45SQ
= exceptionally
"quiet" run sound



6 Nm AC Motor



10—50 Nm AC Motor



100 Nm AC Motor

Standard AC Motors — No Override • 120V / 60Hz

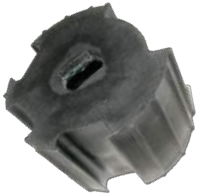
Item #	Torque	Speed	Diameter	Voltage	Input Power	Current	Lifting Weight		Motor Length	Running Time
	(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)	(min)
TMUS35S-06/33	6	33	35 / 1.37"	110-120	113	0.97	≤ 33	≤ 15	48.26cm/ 19"	4
TMUS45S-10/32	10	32	45 / 1.77"	110-120	240	2.42	≤ 55	≤ 25	57.15cm/ 22.5"	4
TMUS45SQ-10/32	10	32	45 / 1.77"	110-120	240	2.42	≤ 55	≤ 25	57.15cm/ 22.5"	4
TMUS45S-20/32	20	32	45 / 1.77"	110-120	235	2.20	≤ 110	≤ 50	57.15cm/ 22.5"	4
TMUS45S-20/19	20	19	45 / 1.77"	110-120	235	2.30	≤ 110	≤ 50	57.15cm/ 22.5"	4
TMUS45S-30/13	30	13	45 / 1.77"	110-120	235	2.30	≤ 118	≤ 53	57.15cm/ 22.5"	4
TMUS45S-50/13	50	13	45 / 1.77"	110-120	235	2.30	≤ 275	≤ 125	57.15cm/ 22.5"	4
TMUS59S-100/11	100	11	59 / 2.32"	110-120	340	2.90	≤ 471	≤ 214	66.04cm/ 26"	4
TMUS59S-120/9	120	9	59 / 2.32"	110-120	340	2.90	≤ 473	≤ 215	66.04cm/ 26"	4

Note: Lifting capacity varies depending on tube size.

Tubular Motors

| Standard: 6 Nm-100 Nm

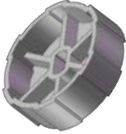
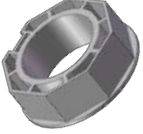
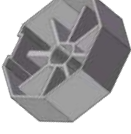
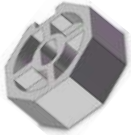
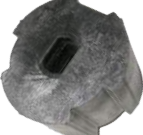
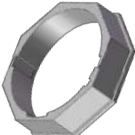
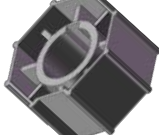
| Crown / Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
6 Nm Motors (35mm (1.37") diameter ONLY)				
		Crown: TMUS35-46.5RC Drive Gear: TMUS45-46.5RG	2" (50mm) Round Tube (5.08cm)	Ø46.3mm / 1.82" Ø46.5mm / 1.83"
NO CROWN NEEDED		Drive Gear: TMUS35-35RG	1½" (40mm) Round Tube (3.8cm)	Ø36.2mm / 1.43"
NO CROWN NEEDED		Drive Gear: TMUS-G14	Acmeda 44mm Tube (1.73")	Ø41mm / 1.61"
6-50 Nm Motors (35mm (1.37") and 45mm (1.77") diameter ONLY)				
		Crown: TMUS-C118 Drive Gear: TMUS-G133	2" / 55mm Round Tube (5.08cm)	Ø46mm / 1.81" Ø45.5mm / 1.79"
	Various Drive Gears.	Crown: TMUS35-60OC	Compatible with crowns adapters fitting 10-50 Nm motors	Ø46mm / 1.81"

Tubular Motors

| Standard: 10-100 Nm

| Crown / Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
10—50 Nm Motors (45mm (1.77") diameter ONLY)				
		Crown: TMUS-45C Drive Gear: TMUS-45G	86mm Profiled Tube (3.38")	Ø79.5mm / 3.13" Ø79mm / 3.11"
		Crown: TMUS-45OC Drive Gear: TMUS-45OG	70mm Octagonal Tube (2.75")	Ø67.4mm / 2.65" Ø66.7mm / 2.63"
		Crown: TMUS-60OC3 Drive Gear: TMUS-60OG3	60mm Octagonal Tube (2.36")	Ø57.6mm / 2.27" Ø56.2mm / 2.21"
		Crown: TMUS-54C Drive Gear: TMUS-54G	60mm Round Tube (2.36")	Ø54.5mm / 2.15" Ø53.5mm / 2.11"
NO CROWN NEEDED		Drive Gear: TMUS45-46.5RG	2" / 50mm Round Tube (5.08cm)	Ø46.5mm / 1.83"
NO CROWN NEEDED		Drive Gear: TMUS-G02	Acmeda 56mm Tube (2.20")	Ø51.6mm / 2.03"
		Crown: TMUS-45UC Drive Gear: TMUS45G	XL System	140mm / 5.5"
100 Nm Motors (59mm (2.32") diameter ONLY)				
		Crown: TMUS-59OC Drive Gear: TMUS-59OG	70mm Octagonal Tube (2.75")	Ø67.5mm / 2.66" Ø67.1mm / 2.64"
		Crown: TMUS-59C Drive Gear: TMUS-59G	86mm Profiled Tube (3.38")	Ø79mm / 3.11" Ø79mm / 3.11"
		Crown: TMUS-59RC Drive Gear: TMUS-59RG	100mm (OD) (3.93") / 94mm (ID) (3.70") Round Steel Tube	Ø94mm / 3.70" Ø94mm / 3.70"

Tubular Motors

| Standard: 20 Nm-50 Nm (STD) (MS)

| With Manual Override

Standard Features Include:

- Manual Override
- 5 year 100% replacement Warranty coverage. (2 yr. for DC motors, 1 yr. for Lithium battery motors)
- Mechanically set limits with dual sided limit access; 8" (2.03cm) long hexagonal limit adjuster
- tool together with wiring manuals included.
- Lifting capacities in excess of 198 lbs. (89.8 kgs)
- Universal Accessories, Crown and Drive Gears for motor tubes 49mm (1.92") and over are available.



20—50 Nm AC Motor

Standard AC Motor - with Override - 120V / 60Hz										
Item #	Torque	Speed	Diameter	Voltage	Input Power	Current	Lifting Weight		Motor Length	Running Time
	(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)	(min)
TMUS45M-20/19	20	19	45 / 1.77"	110-120	276	2.3	≤ 79	≤ 36	62.86 / 24.75"	4
TMUS45M-20/32	20	32	45 / 1.77"	110-120	276	2.3	≤ 79	≤ 36	62.86 / 24.75"	4
TMUS45M-30/13	30	13	45 / 1.77"	110-120	240	2.4	≤ 118	≤ 53	62.86 / 24.75"	4
TMUS45M-40/13	40	13	45 / 1.77"	110-120	205	1.9	≤ 158	≤ 71	62.86 / 24.75"	4
TMUS45M-50/13	50	13	45 / 1.77"	110-120	235	2.2	≤ 198	≤ 90	62.86 / 24.75"	4

Note: Also Available in 220V - 230V (call for details)

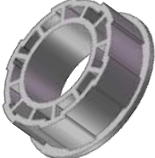
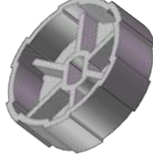
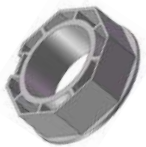
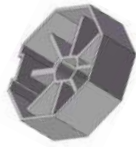
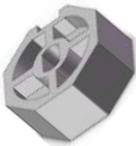
Note: Lifting capacity varies depending on tube size.

Motors with manual override
require Universal Assembly
(See index for reference)

Tubular Motors

| Standard: AC 20—50 Nm

| Crown / Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
20—50 Nm Motors (45mm (1.77") diameter ONLY)				
		Crown: TMUS-96C Drive Gear: TMUS-96G	100mm (OD) (3.93")/ 94mm (ID) (3.70")Round Steel Tube	Ø94mm / 3 11/16" Ø94mm / 3 11/16"
		Crown: TMUS-45C Drive Gear: TMUS-45G	86mm Profiled Tube (3.38")	Ø79.5mm / 3.13" Ø79mm / 3.11"
		Crown: TMUS-75C Drive Gear: TMUS-75G	80mm Tube with Groove (Awnings) (3.14"))	Ø75.2mm / 2.96" Ø75.2mm / 2.96"
		Crown: TMUS-45OC Drive Gear: TMUS-45OG	70mm Octagonal Tube (2.75")	Ø67.4mm / 2.65" Ø66.7mm / 2.63"
		Crown: TMUS-60OC2 Drive Gear: TMUS-60OG2	60mm Octagonal Tube (2.36")	Ø56.9mm / 2.24" Ø57.6mm / 2.27"
		Crown: TMUS-54C Drive Gear: TMUS-54G	60mm Round Tube (2.36")	Ø54.5mm / 2.15" Ø53.5mm / 2.11"
NO CROWN NEEDED		Drive Gear: TMUS45-46.5RG	2" (50mm) Round Tube (5.08cm)	Ø46.5mm / 1.83"
		Crown: TMUS-61C Drive Gear: TMUS-61G	62mm Round Tube (2.44")	Ø60.8m / 2.39" Ø60.8m / 2.39"

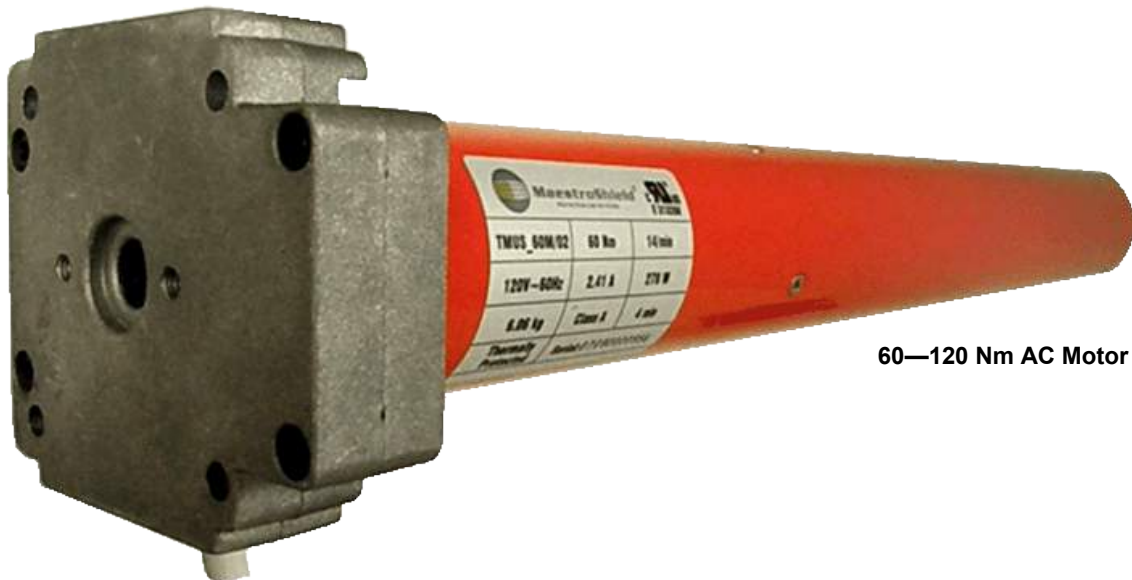
Tubular Motors

| Standard: AC 60—120 Nm (STD) (MS)

| With Manual Override

Standard Features Include:

- Manual Override
- 5 year 100% replacement Warranty coverage (2 yr. for DC motors, 1 yr. for Lithium battery motor)
- Mechanically set limits with dual sided limit access; 8" (2.03cm) long hexagonal limit adjuster tool together with wiring manuals included with each motor.
- Lifting capacities in excess of 396 lbs.(179.62 kgs)
- Universal Accessories, Crown and Drive Gears for motor tubes 70mm (2.75") and over are available.



60—120 Nm AC Motor

Standard Motor - with Override - 120V / 60Hz

Item #	Torque	Speed	Diameter	Voltage	Input Power	Current	Lifting Weight Based on 70mm Tube		Motor Length	Running Time
	(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)	(min)
TMUS59M-60/14	60	14	59 / 2.32"	110-120	278	2.4	≤ 283	≤ 129	66.04 / 26"	4
TMUS59M-80/14	80	14	59 / 2.32"	110-120	506	2.9	≤ 377	≤ 171	66.04 / 26"	4
TMUS59M-100/11	100	11	59 / 2.32"	110-120	340	2.9	≤ 471	≤ 214	66.04 / 26"	4
TMUS59M-120/9	120	9	59 / 2.32"	110-120	340	2.9	≤ 566	≤ 257	66.04 / 26"	4

Note: Also Available in 220V - 230V (call for details)

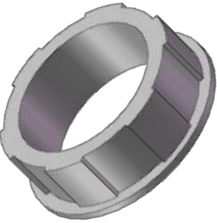
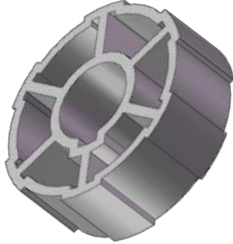
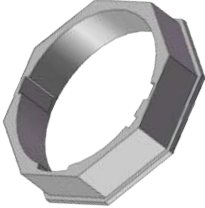
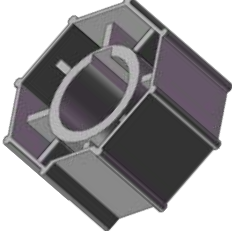
Motors with manual override
require Universal Assembly
(See index for reference)

Note: Lifting capacity varies depending on tube size.

Tubular Motors

| Standard: 60 Nm-120 Nm

| Crown / Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
60—120 Nm Motors (59mm (2.32") diameter ONLY)				
		Crown: TMUS-59RC Drive Gear: TMUS-59RG	100mm (OD) (3.93") / 94mm (ID) (3.70") Round Steel Tube	Ø94mm / 3.70" Ø94mm / 3.70"
		Crown: TMUS-59C Drive Gear: TMUS-59G	86mm Profiled Tube (3.38")	Ø79mm / 3.11" Ø79mm / 3.11"
		Crown: TMUS-59OC Drive Gear: TMUS-59OG	70mm Octagonal Tube (2.75")	Ø67.5mm / 2.66" Ø67.1mm / 2.64"

Tubular Motors

| Standard: 140 Nm-300 Nm (STD) (MS)

| No Manual Override

Standard Features Include:

- No 3-phase power needed
 - MaestroShield Warranty coverage
 - Single sided access to mechanical, set-lever limits
 - Mounting hardware and built-in Crown and Drive
- Gears for 100mm OD (3.93") / 94mm ID (3.70") tube.
- Lifting capacities in excess of 1011 lbs (458.58 kgs).



140—300 Nm AC Motor without override

Standard AC Motor - no Override - 120V / 60Hz

Item #	Torque	Speed	Diameter	Motor Head Dimensions	Voltage	Input Power	Current	Lifting Weight Based on 100mm Tube		Motor Length	Running Time
	(Nm)	(rpm)	(mm/in)	(in/cm)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)	(min)
TMUS92S-140/12	140	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	680	5.80	≤ 462	≤ 210	62.99cm/ 24.80"	4
TMUS92S-180/12	180	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	760	6.50	≤ 594	≤ 270	62.99cm/ 24.80"	4
TMUS92S-230/12	230	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	990	8.50	≤ 759	≤ 345	62.99cm/ 24.80"	4
TMUS92S-300/8	300	8	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	1000	8.60	≤ 990	≤ 450	62.99cm/ 24.80"	4

Note: Also Available in 220V - 230V (call for details)

Tubular Motors

| Standard: 140-300 Nm (STD) (MS)

| With Manual Override

Standard Features Include:

- No 3-phase power needed
- MaestroShield Warranty coverage
- Single sided access to mechanical, set-lever limits,
- Lifting capacities in excess of 1011 lbs. (458.58 kgs).
- Mounting hardware and built-in Crown and Drive Gears for 100mm OD (3.93") / 94mm ID (3.70") tube.
- Maintenance use only manual override available
- No built-in receiver. (requires separate receiver purchase)



140—300 Nm Encore 02 AC Motor with override

Note: Also Available in 220V - 230V (call for details)

Standard AC Motor—with Override - 120V / 60Hz

Item #	Torque	Speed	Diameter	Motor Head Dimensions	Voltage	Input Power	Current	Lifting Weight Based on 100mm Tube		Motor Length	Run-ning Time
	(Nm)	(rpm)	(mm/in)	(in/cm)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)	(min)
TMUS92M-140/12	140	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	680	5.80	≤ 462	≤ 210	62.99cm/ 24.80"	4
TMUS92M-180/12	180	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	760	6.50	≤ 594	≤ 270	62.99cm/ 24.80"	4
TMUS92M-230/12	230	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	990	8.50	≤ 759	≤ 349	62.99cm/ 24.80"	4
TMUS92M-300/8	300	8	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	1000	8.60	≤ 990	≤ 459	62.99cm/ 24.80"	4

Tubular Motors

| Hybrid: AC 20-50Nm (HYB) (MS)

| With and Without Manual Override

Standard Features Include:

- Built-in Receiver
- Mechanical Limit Setting
- Easy-to-Set Electronic Limit Switch
- 5 year 100% replacement Warranty coverage (2 yr. for DC motors, 1 yr. for Lithium battery motor)
- With and without Manual Override
- With and without Manual Override
- Lifting capacities in excess of 275 lbs. (124.73 kgs)
- Universal Accessories, Crown and Drive Gears for a variety of motor tubes.

Mechanical limit switch with built-in receiver



Head with
Manual Override



Drive Shaft



Fast Installing Type
Limit Head



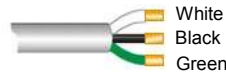
With manual override



Without manual override

Features

- Quiet design, noise performance below 45dB
- Mechanical limit switch with built-in receiver
- Built-in control board using sealed box, more safe and stable
- Precise limit setting and easy adjustment
- Shock resistance relays for higher stability
- Working temperature from -40 to +85F for electronics
- Works with all MaestroShield control systems
- Both motors can be used with standard mounting plates AC03-03A (standard or AC03-0801 (45" plate)



Motor Connection

White—Neutral
Black—Live
Green—Earth

Custom Order: 100Nm Hybrid available

AC Motors (with and without Override) • 110 -120V / 60Hz

	Item #	Torque	Speed	Diameter	Voltage	Input Power	Current	Lifting Weight		Motor Length
		(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	60mm Tube	70mm Tube	Motor Length (Shaft or Tube)
With manual override	TMRS45M-20/30	20	30	45/1.77"	120	300	2.50	≤ 112 lbs/ 50.80kgs	≤ 94 lbs/ 42.63 kgs	27" / 68.58cm - 24.75" / 62.87cm
	TMRS45M-50/12	50	12	45/1.77"	120	300	2.5	≤ 275 lbs/ 124.73 kgs	≤ 236 lbs/ 107.04 kgs	27" / 68.58cm - 24.75" / 62.87cm
Without manual override	TMRS45S-20/30	20	30	45/1.77"	120	300	2.50	≤ 112 lbs/ 50.80 kgs	≤ 94 lbs/ 42.63 kgs	27" / 68.58cm - 24.75" / 62.87cm
	TMRS45S-50/12	50	12	45/1.77"	120	300	2.5	≤ 275 lbs/ 124.73 kgs	≤ 236 lbs/ 107.04 kgs	27" / 68.58cm - 24.75" / 62.87cm

Crown		Drive	Item #	Motor Tube / Reel	Outer Diameter
	Crown: TMUS-SC276		Drive Gear: TMUS-45OG	2.75" (70mm) Octangular Tube	Ø66mm / 2 5/8"
	Crown: TMUS-60OC3		Drive Gear: TMUS-60OG3	2.36" (60mm) Octangular Tube	Ø56mm / 2 7/32"

Tubular Motors

| Hybrid Motors Packages (HY) (MSD)

| 50Nm and 120Nm

Standard Features Include:

- Built-in Receiver
- 5 year 100% replacement Warranty coverage
- With Manual Override
- Lifting capacities i> 275 lbs. (124.73 kgs)
- Package* Includes: Bracket, Crown(s) and Drive Gear(s) for either 70mm or 60mm and 70mm tube
- Lifting Capacities dependent on motor tube size.
- Range: 275, 236 for the 50Nm depending on tube size.
- Range: 566, 460, 396 for 120Nm depending on tube size
- *Parts can be purchased separately

50Nm Motor Package



MSD

Dooya Compatible Receiver

Includes: Mounting Plate, 60/70mm crowns & drives

Lifting Capacity (lbs)		
	60 mm	70 mm
50 Nm	275 lbs	236 lbs

TMUS-450C TMUS-450G



TMUS-600C TMUS-600G3



AC03-0802

120Nm Motor Package

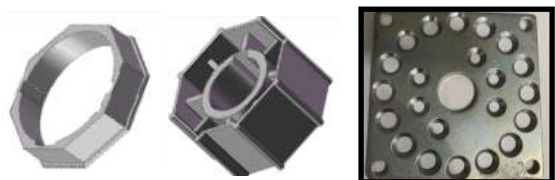


MSD

Dooya Compatible Receiver

Includes: Mounting Plate, 70mm crown & drive

Lifting Capacity (lbs)			
	70 mm	86 mm	100 mm
120 Nm	566 lbs	460 lbs	396 lbs



TMUS-590C

TMUS-590G

AC03-0801 or
AC03-0802

AC Motor—with Built-In Receiver and Override - 120V / 60Hz

	Item #	Torque	Speed	Diameter	Voltage	Input Power	Current	Lifting Weight Based on 100mm Tube		Motor Length	Running Time
		(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)	(min)
With manual override	TMHY45M-50/13PKG	50	13	45/1.77"	120	288	1.5	Above chart		76.2/ 30	4
With manual override	TMHY59M-120/9PKG	120	9	59/2.32"	120	436	3.6	Above chart		78.74/ 31	4

Tubular Motors

| Hybrid Bidirectional Motor

Packages (HY BD) (MSBD)

| 50Nm and 100Nm

Standard Features Include:

- Bidirectional position feedback via your app.
- Built-in Receiver
- 5 year 100% replacement Warranty coverage
- With Manual Override
- Lifting capacities >275 lbs. (124.73 kgs)
- Package* Includes: Bracket, Crown(s) and Drive Gear(s) for either 70mm or 60mm and 70mm tube
- Lifting Capacities dependent on motor tube size.
- Range: 275, 236 for the 50Nm depending on tube size.
- Range: 471, 214 for the 100Nm depending on tube size
- Signal repeater
- *Parts can be purchased separately

50Nm Motor Package



MSBD

Includes: Mounting Plate, 60/70mm crowns & drives

Lifting Capacity (lbs)		
	60 mm	70 mm
50 Nm	275 lbs	236 lbs

TMUS-45OC TMUS-45OG



TMUS-60OC TMUS-60OG3



AC03-0802

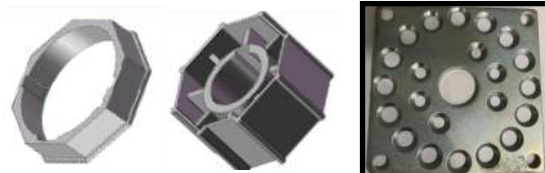
100Nm Motor Package



MSBD

Includes: Mounting Plate, 70mm crown & drive

Lifting Capacity (lbs)			
	70 mm	86 mm	100 mm
100 Nm	471 lbs	384 lbs	330 lbs



TMUS-59OC

TMUS-59OG

AC03-0801 or
AC03-0802

AC Motor-Built-In Receiver/Bidirectional/Override - 120V / 60Hz

	Item #	Torque	Speed	Diameter	Voltage	Input Power	Current	Lifting Weight Based on 100mm Tube		Motor Length	Running Time
		(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)	(min)
With manual override	TMHY45BDM-50/13PKG	50	13	45/1.77"	120	288	1.5	Above chart		76.2/ 30	4
With manual override	TMHY59BDM-100/11PKG	100	11	59/2.32"	120	436	3.6	Above chart		78.74/ 31	4

Tubular Motors

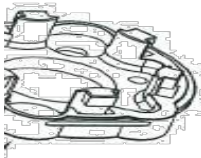
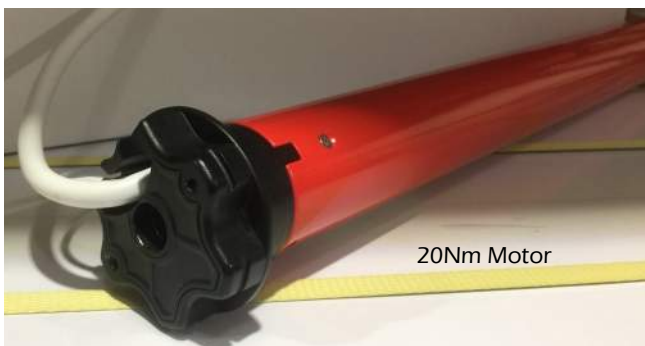
| Rebound - 2nd Generation (RBD/RB)

| 20-50Nm Without Override-PKGS(MSBD)

| 50Nm With Override (MSD)

REBOUND FEATURES

- Easy to install
- Available from 20-50Nm
- Senses obstructions
- Built-in Receiver Technology
- Integrated Signal Repeater to extend range
- Easy-to-Set Electronic Limit Switches
- 5 year 100% replacement Warranty coverage
- Compatible with MSBD Electronics
- Dooya Compatible (override only)
- Without Manual Override has bidirectional visibility through the app.
- Without Manual Override has electronic limit setting
- Without Manual Override includes crown and drive gear as well as fast mounting plate
- With Manual Override has manual limit setting

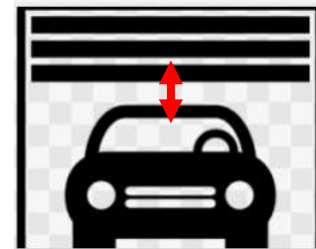


TMUS-60OC TMUS-60OG3

Note: Use with TMUS-60OG3 drive gear
TMUS-~~60OC~~ crown. (**TMUS-60OC3 is not recommended**)

REBOUND TECHNOLOGY

MaestroShield offers cutting edge technology with obstruction motors allow the rebound effect for additional safety closing solutions.



AC Motor—Built-In Receiver / Rebound function 120V / 60Hz

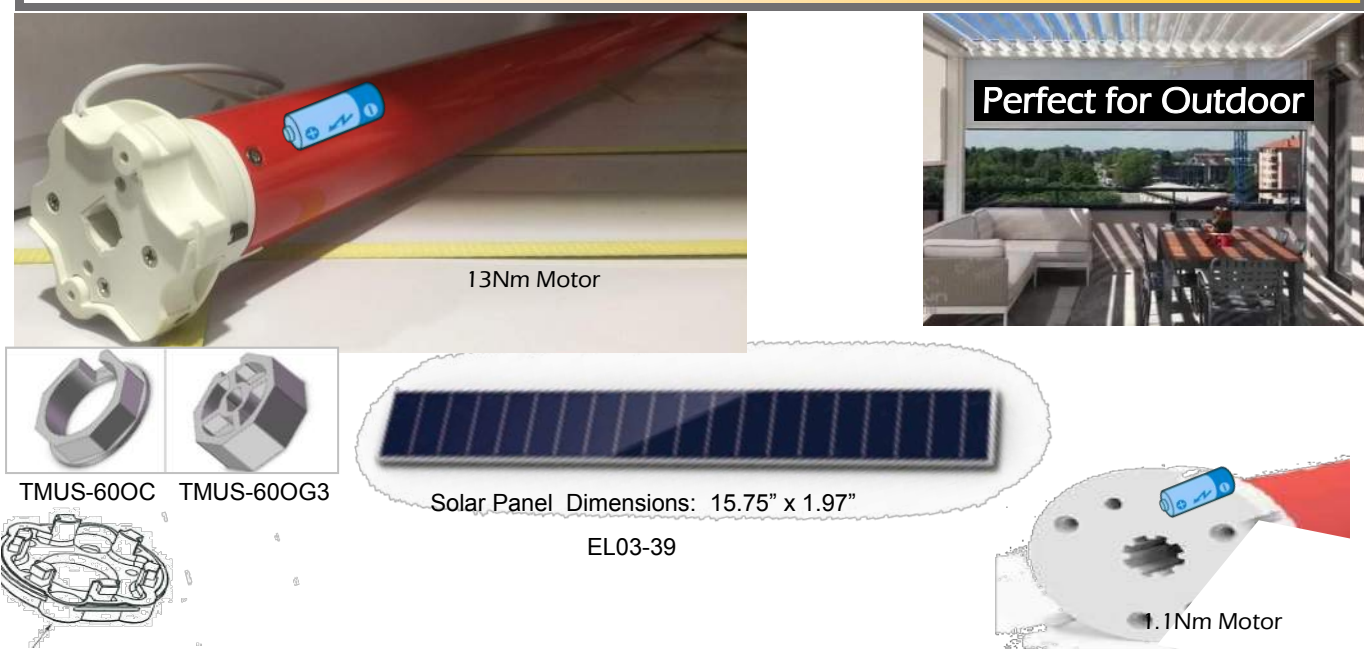
	Item #	Torque	Speed	Diameter	Voltage	Input Power	Current	Motor Length	Running Time
		(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(cm/in)	(min)
Without manual override	TMRB45BDS-20/19PKG	20	19	45/1.77"	120	180	1.5	60.5/ 23.7	4
Without manual override	TMRB45BDS-50/13PKG	50	13	45/1.77"	120	269	2.4	65.2/ 25.6	4
With manual override	TMRB45M-50/14	50	14	45/1.77"	120	235	2.2	62.86/ 24.75	4

Tubular Motors | DC/DC Battery/AC-2nd Generation (DC/AC)

| 1.1 - 13Nm Without Override (MSBD)

DC / DC (with Lithium Battery) FEATURES. (use with SOLAR PANEL or USB Charger)

- Easy to install
- Available from 2-13Nm
- Built-in Receiver Technology
- Built-In Battery
- Easy-to-Set Electronic Limit Switches
- 5 year 100% replacement Warranty coverage
- Compatible with MSBD Electronics
- Without manual override
- Charge with with EL03-38 Compact Solar Panel or motor charger.
- Position shows in app
- Uses micro-USB charger with cable approx. 9'



DC / DC Battery Motor / AC (use with Compact Solar Panel or Micro-USB charger)							
	Item #	Type	Lithium Battery	Torque (Nm)	Speed (rpm)	Diameter (mm/in)	Voltage (V)
No override	TMDC45BDQ-13/11PKG	USB-C	X	13	11	45mm	5v DC
No override	ELSTM45BDQ-10/21			10	21	45mm	AC
No override	TMDC45BD-6/24PKG	USB-C	X	6	24	45mm	5v DC
No override	TMDC45BD-3/28	Micro-USB	X	3	28	25mm	5v DC
No override	TMDC28BD-2/28PKG	Micro-USB	X	2	28	28mm	5v DC
No override	ELSTM25BD-1.5/32			1.5	32	25mm	AC
No override	TMDC25BD-1.1/28PKG	Micro-USB	X	1.1	28	25mm	5v DC
Solar Panel	EL03-38						
Solar Panel	EL03-39						
Charger MicroUSB	EL03-USB13C						

PKG items come bundled with the applicable crown(s), drive(s), MicroUSB, or USB-C cables



Tubular Motors | Theoretical Lifting Capacity

Theoretical Lifting Capacity is an indicator of the torque aptitude of a motor without consideration of factors that impact the actual load value, such as tube diameter, length and deflection, friction and system loss, material dimensions and accessories used.

For all published motor theoretical lifting capacities, an additional 25% safety factor is excluded from the max published lifting capacity to achieve optimal performance of the motor. MaestroShield strongly suggests utilization of the full line of MaestroShield-brand accessory components.

Torque (NM)	Theoretical Lifting Capacity — in Pounds (lbs) / Kilograms (kgs)								
	25mm Tube (.98")	35mm Tube (1.37")	40mm Tube (1.57")	50mm Tube (1.96")	60mm Tube (2.36")	70mm Tube (2.75")	86mm Tube (3.50")	100mm Tube (4")	5.5" Tube (86mm inner)
0.7 Nm	9 lbs (4 kgs)	7 lbs (3 kgs)	6 lbs (2 kgs)						
1 Nm	13 lbs (5 kgs)	10 lbs (4 kgs)	8 lbs (3 kgs)						
3 Nm			25 lbs (11 kgs)	20 lbs (9kgs)	17 lbs (7 kgs)	14 lbs (6 kgs)			
6 Nm			50 lbs (22 kgs)	40 lbs (18 kgs)	33 lbs (14kgs)	28 lbs (12 kgs)			
8 Nm				53 lbs (24 kgs)	44 lbs (19 kgs)	38 lbs (17 kgs)			
10 Nm				66 lbs (29 kgs)	55 lbs (24 kgs)	47 lbs (21 kgs)			
20 Nm				132 lbs (59 kgs)	110 lbs (49 kgs)	94 lbs (42 kgs)	77 lbs (34 kgs)	66 lbs (29 kgs)	48 lbs (22 kgs)
30 Nm				198 lbs (89 kgs)	165 lbs (74 kgs)	141 lbs (63 kgs)	115 lbs (52 kgs)	99 lbs (44 kgs)	78 lbs (33 kgs)
35 Nm				231 lbs (104 kgs)	193 lbs (87 kgs)	165 lbs (74 kgs)	134 lbs (60 kgs)	116 lbs (52 kgs)	89 lbs (30 kgs)
40 Nm				264 lbs (119 kgs)	220 lbs (99 kgs)	189 lbs (85 kgs)	153 lbs (69 kgs)	132 lbs (59 kgs)	95 lbs (43 kgs)
50 Nm				330 lbs (149 kgs)	275 lbs (124 kgs)	236 lbs (107 kgs)	192 lbs (87 kgs)	165 lbs (74 kgs)	120 lbs (59 kgs)
60 Nm						283 lbs (128 kgs)	230 lbs (104 kgs)	198 lbs (89 kgs)	143 lbs (65 kgs)
80 Nm						377 lbs (171 kgs)	307 lbs (139 kgs)	264 lbs (119 kgs)	192 lbs (82 kgs)
100 Nm						471 lbs (231 kgs)	384 lbs (174kgs)	330 lbs (149 kgs)	240 lbs (109 kgs)
120 Nm						566 lbs (256 kgs)	460 lbs (208 kgs)	396 lbs (179 kgs)	288 lbs (130 kgs)
140 Nm								462 lbs (209 kgs)	
180 Nm								594 lbs (269 kgs)	
230 Nm								759 lbs (344 kgs)	
300 Nm								990 lbs (449 kgs)	
330 Nm									

Tubular Motors

| Crown and Drive Gear Compatibility Chart

MOTOR	Diameter of motor	▼ MOTOR TUBE								
		1" Round 2.54cm	1.5" Rollease 3.8cm	1.5" (40mm) Round 3.8cm	1.5" (40mm) Octagonal 3.8cm	44mm Acmeda Tube 1.73"	2" (50mm) Round 5.08cm	2" (55mm) Round 5.08cm	56mm Acmeda Tube 2.20"	2.36" (60mm) Round 6.00cm
Silent Series 3 - 8 Nm	44.5mm	Crown Drive					Not needed			
							TMUS-SG197			
Silent Series 1 Nm	25.5mm	Crown Drive	TMUS-SC458	TMUS-SC1170						
			TMUS-SG472	TMUS-SG1171						
Smart Series 6 Nm	35mm	Crown Drive			TMUS-SC127	TMUS-SC141	TMUS-SC153			
					TMUS-SG143	TMUS-SG139	TMUS-SG155			
Smart Series 10 - 50 Nm	44.5mm	Crown Drive					Not Needed			
							TMUS-SG213			
Clutch Release 50 Nm	45mm	Crown Drive								
Harmony DC 0.7 Nm	25mm	Crown Drive		TMUS-C241						
				TMUS-G265						
Harmony DC 3 - 6 Nm	35mm	Crown Drive			Not Needed	Not Needed	TMUS35-46.5RC			
				TMUS35-35RG	TMUS35-35RG	TMUS-G14	TMUS45-46.5RG			
Harmony DC 3 - 35 Nm	35mm & 45mm	Crown Drive						TMUS-C18		
								TMUS-G22		
Harmony DC 20 - 35 Nm	45mm	Crown Drive					Not Needed		Not Needed	TMUS-54C
							TMUS45-46.5RG		TMUS-G02	TMUS-54G
Harmony AC 6 Nm	35mm	Crown Drive			Not Needed	Not Needed	TMUS35-46.5RC			
				TMUS35-35RG	TMUS-G14	TMUS45-46.5RG				
Harmony AC 6 - 50 Nm	35mm & 45mm	Crown Drive						TMUS-C18		
								TMUS-G22		
Harmony AC 10 - 50 Nm	45mm	Crown Drive					Not Needed		Not Needed	TMUS-54C
							TMUS45-46.5RG		TMUS-G02	TMUS-54G
Harmony AC 100 Nm	59mm	Crown Drive								
Prodigy AC 20 - 50 Nm	45mm	Crown Drive					Not Needed			TMUS-54C
							TMUS45-46.5RG			TMUS-54G
Aria AC 60 - 120 Nm	59mm	Crown Drive								

Tubular Motors

| Crown and Drive Gear
Compatibility Chart

MOTOR	Diameter of motor	▼ MOTOR TUBE									
		2.36" (60mm) Octangular	62mm Round 2.44 in	2.5" (63mm) Round	2.5" (65mm) Round	2.75" (70mm) Round	2.75" (70mm) Octangular	3" (78mm) Round	80mm Grooved Awning Tube 3.15 in.	86mm Profiled Tube 3.38 in.	100mm Round Steel Tube 3.93 in.
Silent Series 3 - 8 Nm	44.5mm	Crown Drive		TMUS-SC161 TMUS-SG163		TMUS-SC305 TMUS-SG510					
Silent Series 1 Nm	25.5mm	Crown Drive									
Smart Series 6 Nm	35mm	Crown Drive									
Smart Series 10 - 50 Nm	44.5mm	Crown Drive	TMUS-SC159 TMUS-SG160	TMUS-SC161 TMUS-SG162	TMUS-SC259 TMUS-SG260	TMUS-SC166 TMUS-SG65	TMUS-SC276 TMUS-SG277	TMUS-SC309 TMUS-SG310		TMUS-59C TMUS45G	
Clutch Release 50 Nm	45mm	Crown Drive					TMUS-59OC TMUS-45OG				
Harmony DC 0.7 Nm	25mm	Crown Drive									
Harmony DC 3 - 6 Nm	35mm	Crown Drive									
Harmony DC 3 - 35 Nm	35mm & 45mm	Crown Drive									
Harmony DC 20 - 35 Nm	45mm	Crown Drive	TMUS-60OC TMUS-60OG			TMUS-45OC TMUS-45OG					
Harmony AC 6 Nm	35mm	Crown Drive									
Harmony AC 6 - 50 Nm	35mm & 45mm	Crown Drive									
Harmony AC 10 - 50 Nm	45mm	Crown Drive	TMUS-60OC TMUS-60OG			TMUS-45OC TMUS-45OG				TMUS-45C TMUS-45G	
Harmony AC 100 Nm	59mm	Crown Drive				TMUS-59OC TMUS-59OG			TMUS-59C TMUS-59RC		
Prodigy AC 20 - 50 Nm	45mm	Crown Drive	TMUS-60OC TMUS-60OG	TMUS-61C TMUS-61G		TMUS-45OC TMUS-45OG			TMUS-75C TMUS-75G	TMUS-45C TMUS-45G	TMUS-59RC TMUS-59RC
Aria AC 60 - 120 Nm	59mm	Crown Drive					TMUS-59OC TMUS-59OG			TMUS-59C TMUS-59RC	TMUS-59RC TMUS-59RC
Hybrid AC 20-50 Nm	45mm	Crown Drive	TMUS-80OC3 TMUS-80OC3				TMUS-SC276 TUS-45OG				
Rebound AC 20Nm	45mm	Crown Drive	TMUS-80OC3 TMUS-80OC3								



MaestroShield®

PROTECTION
Like No Other™

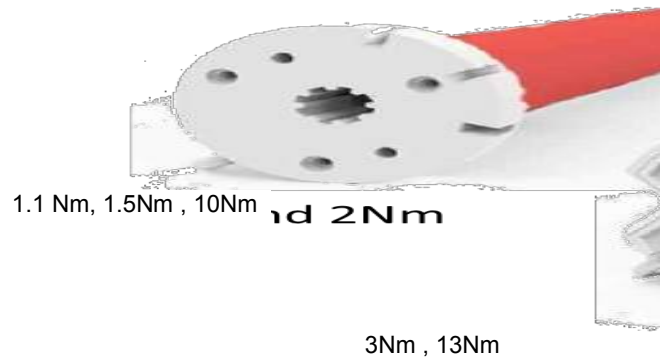
Tubular Motors for Interior Shading



Interior Shade Motors

MOTOR FEATURES:

- Quick and easy limit setting and adjustment
- Set a preferred stop location
- 2-way radio signal gives instant feedback to the app for motor positioning
- Rechargeable built-in Li-ion battery (up to 500 up and down cycles per charge)
- Charges with any micro-USB cable
- Optional: Solar-Panel controlled



Motor, Motor Accessories, Solar Panel:

Zones

DC1.1Nm/28 rpm	Item #TMD25BD-1.1/28PKG	B
DC 3Nm/28 rpm	Item #TMD45BD-3/28	C,D,E
DC 6Nm/24 rpm	Item #TMD45BD-6/24PKG	
DC13Nm/11 rpm	Item #TMD45BDQ-13/11PKG	F
USB Charger 9' cord	Item #EL03-USB13C	
AC1.5Nm/32rpm	Item #ELSTM25BD-1.5/32	B
AC10Nm/21rpm	Item #ELSTM45BDQ-10/21	C,D,E,F
Solar Panel	Item #EL03-39	

14	15	16
D	E	E
D	E	E
D	E	E
E	E	E
E	E	E
E	E	E

Width

8	9	10	11	12	13	14	15	16
C	C	C	D	D	D	D	E	E
C	C	C	D	D	D	D	E	E
C	C	C	D	D	D	D	E	E
C	C	C	D	D	D	E	E	E
C	C	D	D	D	D	E	E	E
C	C	D	D	D	D	E	E	E
C	D	D	D	D	D	E	E	E
C	D	D	D	D	F	F	F	F
C	D	D	D	D	F	F	F	F
C	D	D	D	D	F	F	F	
C	D	D	D	D	F	F	F	
D	D	D	D	F	F	F	F	
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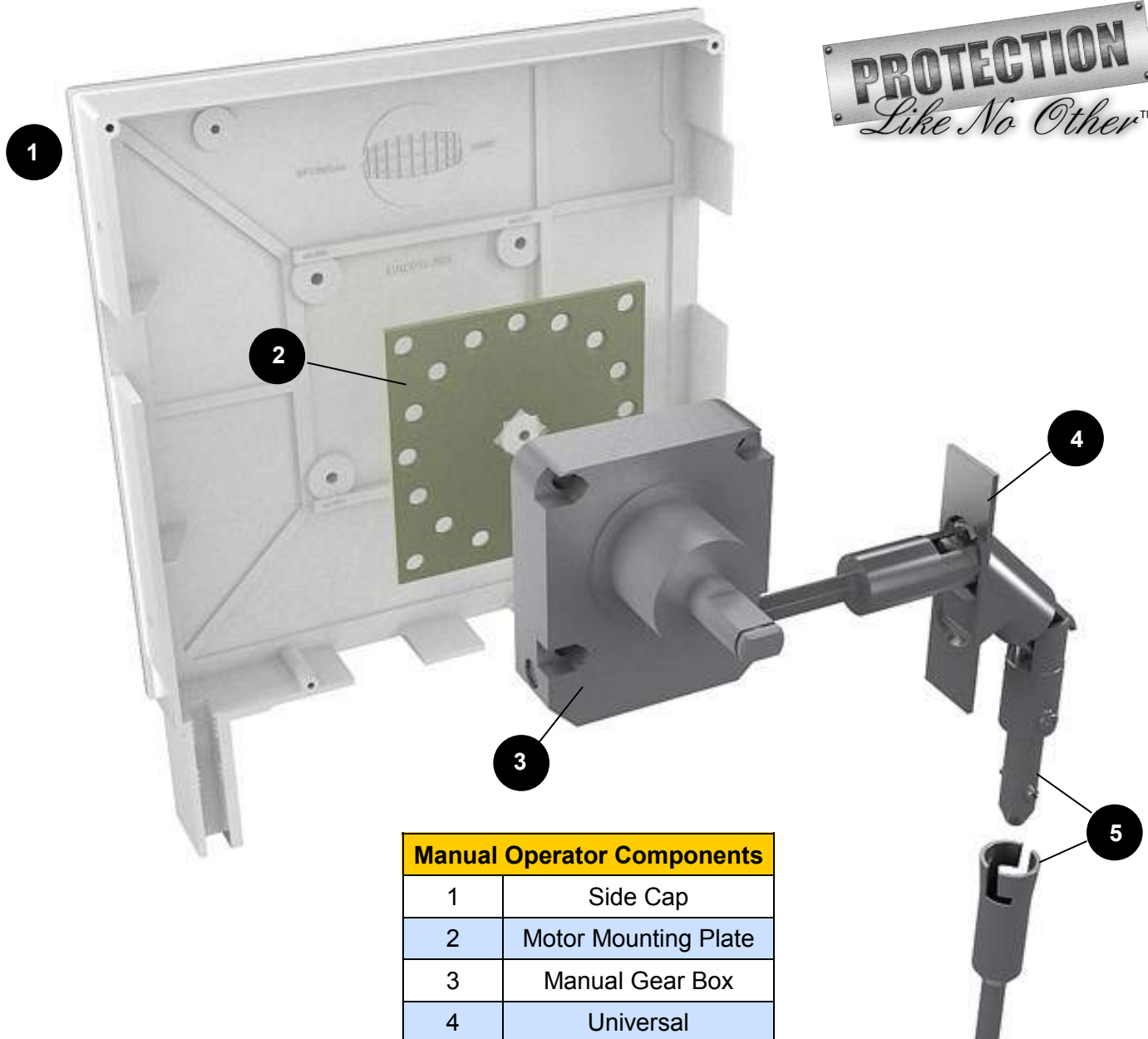


MaestroShield®

2022

Manual Operators

PROTECTION
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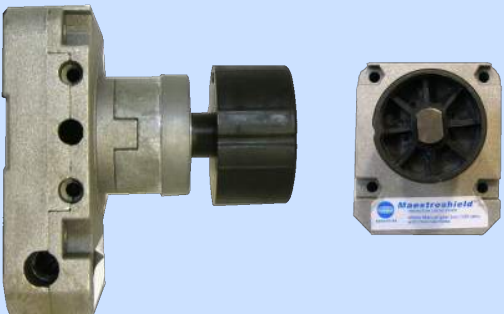
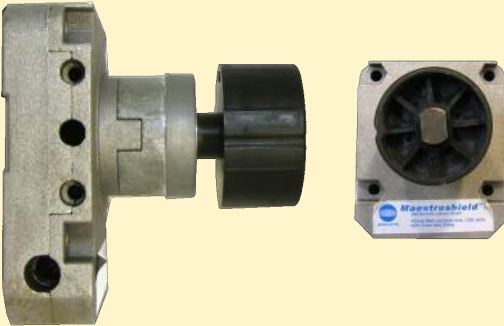
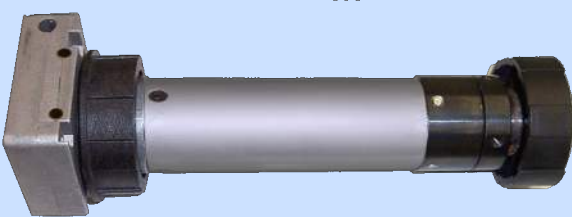


Manual Operator Components	
1	Side Cap
2	Motor Mounting Plate
3	Manual Gear Box
4	Universal
5	Pivot and Bell Coupling
Not Shown	Eyelet and Hook

Manual Operators | Manual Gear Boxes

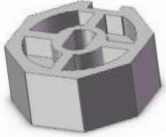
Standard Features Include:

- No Spring Assist Needed
- All metal internal components; rust and wear resistant
- No Limit Setting
- Can use hand held drill on low setting to operate

	Item Name and Number	Specifications	Accessories Needed
	1/8 or 1/11 or 1/18 Manual Gear Box Item #AC02-07/08 Item #AC02-07/11 Item #AC02-07/18	• 8 to 1 gearing ratio Lift Capacity: 55 lbs (25 kgs) • 11 to 1 gearing ratio Lift Capacity: 77 lbs (35 kgs) • 18 to 1 gearing ratio Lift Capacity: 88 lbs (40 kgs)	• Hardware package included • Universal with Hex 7 shaft needed
	1/25 Manual Gear Box Item #AC02-07/25	• 25 to 1 gearing ratio • Lift Capacity: 75 lbs (34 kgs)	• Drive Gear needed • Universal with Hex 7 shaft needed
	1/50 Manual Gear Box Item #AC02-07/50	• 50 to 1 gearing ratio • Lift Capacity: 220 lbs (99 kgs)	• Drive Gear needed • Universal with Hex 7 shaft needed
	1/59 Manual Gear Box Item #AC02-07/100	• 59 to 1 gearing ratio • Lift Capacity: 350 lbs (158 kgs)	• Crown & Drive Gear needed • Universal with Hex 7 shaft needed

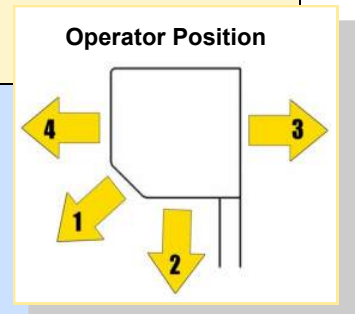
Manual Operators

| Manual Gear Boxes
Crown and Drive Gears

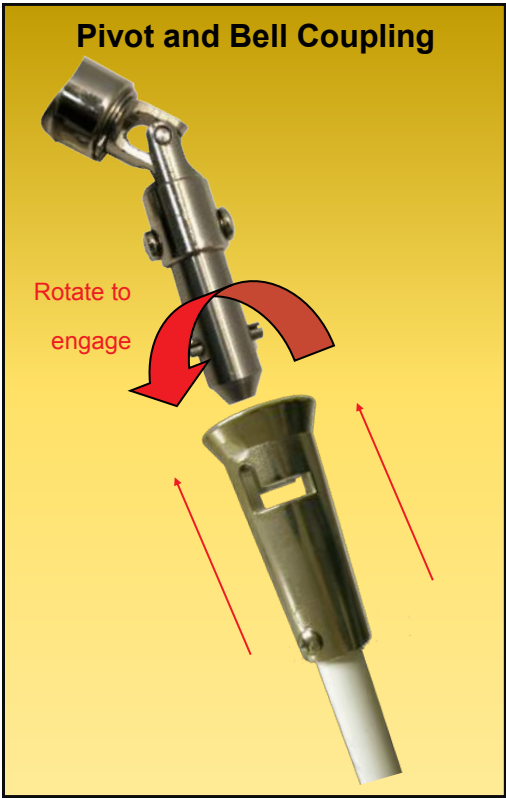
Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
Compatible with 1/25 and 1/50 Manual Gear ONLY				
Not Needed		Drive: TMUS-45G	86mm Profiled Tube (3.38")	Ø79mm / 3.11"
Not Needed		Drive: TMUS-75G	80mm Tube with Groove (Awnings) (3.14")	Ø75.2mm / 2.96"
Not Needed		Drive: TMUS-45OG	70mm Octagonal Tube (2.75")	Ø66.7mm / 2.63"
Not Needed		Drive: TMUS-60OG	60mm Octagonal Tube (2.36")	Ø56.2mm / 2.21"
Not Needed		Drive: TMUS45-46.5RG	2" / 55mm Round Tube	Ø56.5mm / 1.83"
Compatible with 1/59 Manual Gear ONLY				
		Crown: TMUS-59C Drive: TMUS-45G	86mm Profiled Tube (3.38")	Ø79mm / 3.11" Ø79mm / 3.11"
		Crown: TMUS-59OC Drive: TMUS-45OG	70mm Octagonal Tube (2.75")	Ø67.5mm / 2.66" Ø66.7mm / 2.63"

Manual Operators | Universals

	Item Name and Number	Specifications
	Universal 90° / 4 Hole Item #AC908-02 with pivot for use with bell coupling Item #AC908-12 with eyelet for use with hook	- Nickel-plated steel 50mm (1.96") double layer electrolytic layer for greater corrosion resistance - Includes Hex 7 shaft - Recommended for operator position #3
	Universal 90° / 2 Hole Item #AC908-01 with pivot for use with bell coupling Item #AC908-11 with eyelet for use with hook	- Nickel-plated steel 50mm (1.96") double layer electrolytic layer for greater corrosion resistance - Includes Hex 7 shaft - Recommended for operator position #2 or #4
	Universal 90° / 2 Hole Stainless Steel (SS304) Item #AC908-SS01 with pivot for use with bell coupling	- Corrosion resistant for superior performance in coastal areas and high humidity - Includes Hex 7 shaft - Recommended for operator position #2 or #4
	Universal 45° / 2 Hole Item #AC908-04 with pivot for use with bell coupling Item #AC908-14 with eyelet for use with hook	- Nickel-plated steel 50mm (1.96") double layer electrolytic layer for greater corrosion resistance - Includes Hex 7 shaft - Recommended for operator position #1
	Universal 45° / 2 Hole Stainless Steel (SS304) Item #AC908-SS04 with pivot for use with bell coupling	- Corrosion resistant for superior performance in coastal areas and high humidity - Includes Hex 7 shaft - Recommended for operator position #1
	 Universal Eyelet Extension Item #AC0816	- Nickel-plated steel 50mm double layer electrolytic layer for greater corrosion resistance - Recommended for operator position #2 - Compatible with 140Nm—300Nm motors



Manual Operators | Universals Accessories



Crank Handle Assembly Off White

ITEM NUMBER: NICKEL-PLATED	ITEM NUMBER: STAINLESS STEEL	USE
AC908-52	AC908-SS52	5' (1.5m) Handle with hook
AC908-51	AC908-SS51	5' (1.5m) Handle with bell coupling
AC908-SS62	ONLY OPTION	6' 4" (1.95m) Handle with hook
AC908-SS61	ONLY OPTION	6' 4" (1.95m) Handle with bell coupling
AC908-SS12	ONLY OPTION	10' (3.04m) Handle with hook
AC908-SS11	ONLY OPTION	10' (3.04m) Handle with bell coupling



Eyelet Exterior Operation

Black • Reinforced Polycarbonate Plastic

ITEM NUMBER	USE
AC02-10	7mm hex, 6" (15.25cm) steel shaft; use with 8" (20.32cm) hood only
AC08-16	Universal Eyelet Extension, aluminum with iron shaft, 15"total length. 140-300NM motors

Eyelet Extension

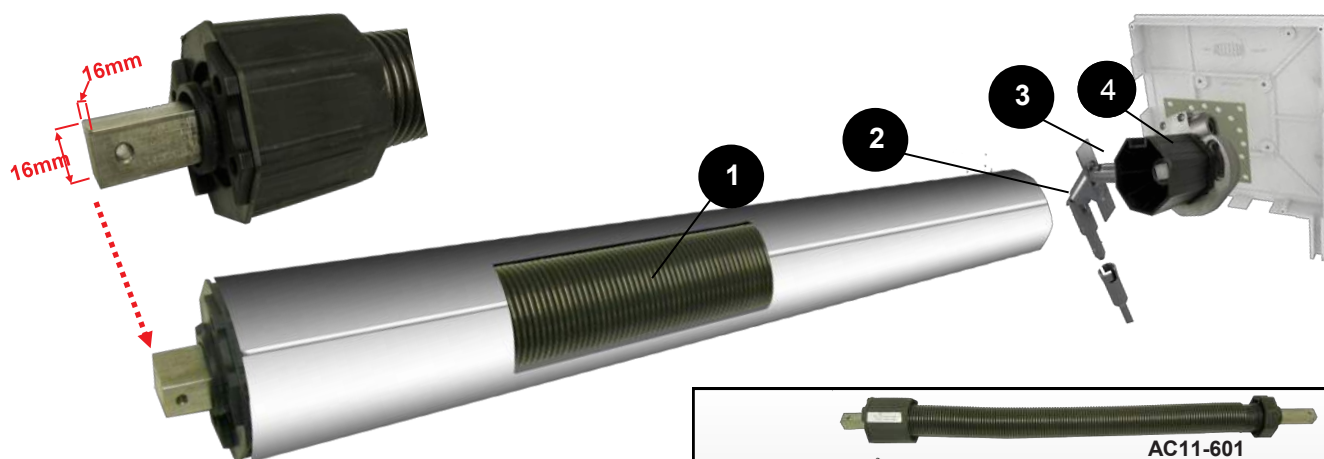
Aluminum with Iron Shaft



Manual Operators | Spring Assist

Features and Benefits:

- Solid, stainless steel axle measuring 16mm X 16mm (.64" X .64");
- Special corrosion-resistant treated springs for superior performance in coastal areas and high humidity;
- Can be utilized for pull down applications;
- Can be combined with manual gear box for easy and precise manual lifting capabilities;
- In some installations, springs can be combined with tubular motor to eliminate the need for 100mm motor tube and heavy duty bracketry.



(1) Spring Assist Torque Spring

Spring Assist Components	
#	Component Name
1	Spring Assist Torque Spring
2	Universal
3	Manual Gear Box
4	Mounting Plate for Torque Spring



Item #	Motor Tube Diameter	Torque Capacity		Wire Diameter	Number of Turns/spring	Length of Shaft	# of Turns to fully torque
		lbs	Kg				
	mm/in			mm/in		mm/in	
AC11-601L	60mm/2.36"	≤33	≤15	3.5mm/.13"	125	650mm / 25.6"	10
AC11-602L	60mm/2.36"	≤74	≤34	4.5mm/.17"	160	940mm / 37"	12
AC11-602R	60mm/2.36"	≤74	≤34	4.5mm/.17"	160	940mm / 37"	12
AC11-701L	70mm/2.75"	≤123	≤56	5.0mm/.19"	140	940mm / 37"	13
AC11-702L	70mm/2.75"	≤165	≤75	5.5mm/.21"	188	1270mm / 50"	13
AC11-703L	70mm/2.75"	≤220	≤100	6.0mm/.23"	133	1030mm / 40.5"	10
AC11-705L	70mm/2.75"	≤33	≤15	3.5mm/.13"	125	650mm / 25.6"	10
AC11-706L	70mm/2.75"	≤74	≤34	4.5mm/.17"	160	940mm / 37"	12

Spring Assist Torque Springs are Left Sided. Right sided available in AC11-602, or by custom order.



PROTECTION
Like No Other™

Electronics & Options

2022



Electronics for:

- Wind Sun Sensor
- Solar Panels
- Wi-Fi Controllers
- Remote Controllers

Electronics are covered by a full 2-year replacement warranty.

- Receivers
- Switches
- LED Lighting
- Home and Business Automation

Electronics | Remote Controllers (MS / MSBD / MSD)

Controllers:

All MaestroShield brand remote controls can be easily programmed to any MaestroShield receiver and will retain the programming for the lifetime of the unit. Remote controls have built-in features such as programming multi unit controls and the ability to change the direction of the motor's rotation. Remotes operate on a frequency of 433Mhz.

MS Remote Controls



EL03-10HH01

EL03-11HH06L*

EL03-11HH16

HANDHELD

- 1 Ch: #EL03-10HH01
- 6 Ch: #EL03-11HH06L*
- 16 Ch: #EL03-11HH16

**LED control*

WALLMOUNT

- 6 Ch: #EL03-11WM06

KEYCHAIN

- 4 Ch: #EL03-53
- 1 Ch: #EL03-52



EL03-11WM06

EL03-53

EL03-52



EL03-BDHH01

EL03-BDHH15

EL03-BDKEYCH

MSBD Remote Controls (Bidirectional)

HANDHELD

- 1 Ch: #EL03-BDHH01
- 15 Ch: #EL03-BDHH15

KEYCHAIN

- 1 Ch: #EL03-BDKEYCH

Maestroshield offers a wide variety of motors:

- Rebound
- Rebound Bidirectional (2nd Generation)
- Hybrid
- Hybrid Bidirectional
- DC
- DC Bidirectional
- DC Battery
- Standard (receiver sold separately)
- Smart

Our remote controllers are paired with, and are compatible to, the applicable external receiver, or with the motor with a built-in receiver.

See Tubular Motor Section for more details.

MSD Remote Controls



EL03-HH04

EL03-HH15

EL03-KEYCH

HANDHELD

- 4 Ch: #EL03-HH04
- 15 Ch: #EL03-HH15

KEYCHAIN

- 1 Ch: #EL03-KEYCH

Dooya Compatible

Electronics | Controller Options (MS / MSBD / MSD)

| HUB - Home Automation - WIFI Controller

Options: Smart HUB Control - MSD / MSBD



Smart App Control

ITEM #	TYPE	USE
EL03-HUB	MSD / MSBD	MSD / MSBD Smart App Control with HUB

- Hub/Wi-Fi controlled through Smart App.
- Compatible with Google Home
- Compatible with Amazon Alexa
- Works directly with Control 4 systems eliminating need for interface

- Controls up to 30 motors, or 5 locations (with up to 20 rooms/scenes/times per location)
- 433 MHz
- Individual or group control
- 60' of uninterrupted range



#EL03-HUB

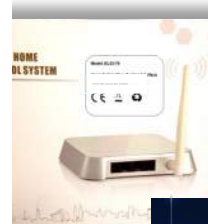
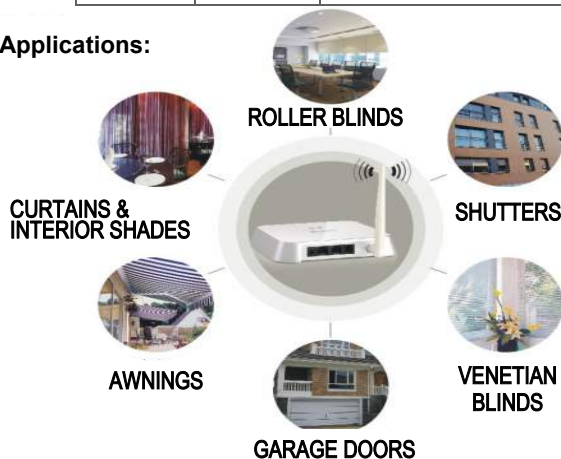
Options: Smart Home Automation Control System Interface II - MS



ITEM #	TYPE	USE
EL03-76	MS	MS Control System, Smart Home Automation, Interface II

- Extends the functionality of an existing Home Automation system to control MaestroShield motors and electronics
- Wirelessly control up to 16 motors per interface box (up to 99 boxes can be linked over RS485 for expanded functionality)

Applications:



#EL03-76



Options: Smart Wifi Controller - MS



ITEM #	TYPE	USE
EL03-11HA	MS	MS Controller, Smart Wi-Fi, 433.92Mhz / Infrared w/app,

- Learns and Controls Devices using 433.92Mhz and Infrared
- Programs/Schedules—Custom Scenes/Rooms
- Auto Home/Away
- Sleek Black, 3 side 4.5"x1.5" h
- Works Over Wi-Fi 2.4GHz b/g/n
- Input Voltage—5V DC
- Input Current 1 A
- Temperature Range 0-50 Celsius
- Apple—App at iPhone App Store
- Android—App at Google Play



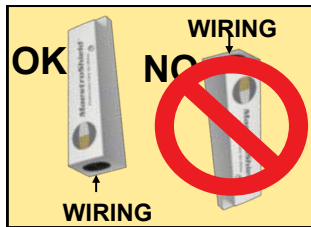
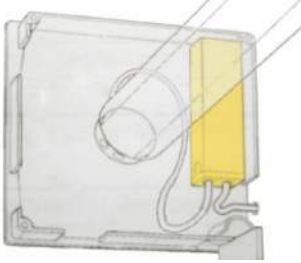
#EL03-11HA



*Note: Range can vary depending on wall construction and room obstructions.

Electronics | Receivers (MS / MSD)

Receivers: Mini-Receivers - MS / MSD



- Reaches greater distances
- Compatible to MaestroShield Tubular Motors
- New built-in transformer provides voltage stabilization, eliminating voltage irregularities.
- Better insulated for premium moisture protection.
- New built-in transmitter allows for transmission ranges of up to 262' (80 meters)
- Conveniently tucks into any space and provides protection against power surges or spikes.
- Can be easily mounted inside the hood assembly.

EL03-MR300



EL03-10MR10A



ITEM NUMBER	TYPE	USE
EL03-10MR10A	MS	110 - 120 V / 60 Hz / 10 Amps • Size: 3.82" W x 1.02" H x 0.79" D (9.70cm W x 2.59cm H x 2.00cm D) - Compatible with Maestroshield AC Motors
EL03-12	MS	220 - 240 V / 60 Hz / 10 Amps • Size: 3.82" W x 1.02" H x 0.79" D (9.70cm W x 2.59cm H x 2.00cm D) - Compatible with Maestroshield AC Motors
EL03-19	MS	3 Amps / 12 V • Size: 3.85" W x 1.02" H x 0.87" D (9.78cm W x 2.59cm H x 2.20cm D) - Compatible with Maestroshield 0.7 Nm DC Motor
EL03-MR300	MSD	Mini Receiver, - (Dooya Compatible) - Compatible with Maestroshield AC Motors

Controllers: Wall Mount Hard Wired - MS

Receiver - Single Channel Wall Mount, Hard-Wired

Convenient single button control directly on the receiver, or integrate with remote transmitter and/or key-switch to lock and secure your system



Top View



ITEM NUMBER	TYPE	LOADING POWER	FREQUENCY	SENSITIVITY	OPERATION
EL03-10WM-KS	MS	≤ 300W	433.92Mhz	-110dBm	MS Remote / Manual

*Note: Range can vary depending on wall construction and room obstructions.

Electronics | Hard-Wired Options

Switches: All switches can be used with any MaestroShield products.

Hard Wired Key Switches

- Flush Mount - #EL03-18
- Surface Mount - #EL08-16

These momentary switches can be used to lock and secure the operation of any tubular motorized unit. Available in surface mount or flush mount, comes with two sets of keys, and can be



Flush Mount Key Switch integrated with Wall Mount Receiver



Surface Mount Key Switch integrated with Wall Mount Receiver

**Extra
Blank Key**



Momentary Switch

For precision opening or closing of your shutter, screen or shade, hold up or down switch and release at desired height.

Available in: White - #EL04-06

Ivory - #EL04-10



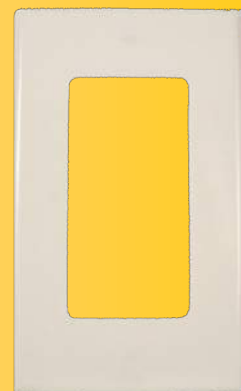
Maintain Switch

For continued opening or closing of your shutter, screen or shade to the next preset stop with a single touch.

Available in:

White - #EL04-07

Ivory - #EL04-08



Face Plate

Sold separately

White - #EL04-01

Ivory - #EL04-02

Electronics | Electronic LED Accessories

Options: Electronic LED Accessories



Options: LED Lights and Accessories

	Component Name	Item #	Specifications
  	 Adhesive Strip Lights (Available in Blue or Warm White, 30 or 60 LED's per meter)	ELEDL-6012BL ELEDL-6012WH ELEDL-3012BL ELEDL-3012WH	5mtr (16.4ft) reels of LED Single Color Adhesive Light Strips, Style 3528, 60 LED's per meter, 12v, IP65
	Receiver	ELEDR-11MRL	LED Receiver for strip lights, 433mhz, DC 5v-24v, IP63
	LED UL Driver (Power Supply)	ELEDP-60W12	LED 60W Output Rated Driver, UL rated, Meanwell Switching Power Supply, IP65
	Connectors (Single Color-Wire)	ELEDC-00SC	Bag of 100 count. LED Single Color Connector with wire
	Connector Caps	ELED-00CN	Bag of 100 count. LED Connectors
	Remote Controller	EL03-11HH06L	6-Channel Remote-Hand Held 433MHz, with Safety Feature Down Key, Controls screens and LED strip lights

Electronics | Electronics Accessories

Options: Electronic Transformer / Extension Cords



Transformer

For 12V and 24V DC motors

Item #EL03-22 - Compatible with 0.7 Nm - 20 Nm 12V motor; 5A/60W with AC and DC cord

Item #EL03-23 - Compatible with 0.7 Nm - 35 Nm 12V motor; 8A/98W with 2 meter (6.56') AC cord

Item #EL03-25 - Compatible with 0.7Nm - 1Nm 24V motor; 0.9A output

Power Cord(s):

Power cord extension with molded plug now available in 8' (2.43m) and 16' (4.87m) lengths.



Item #EL04-12 - 8' (2.43m) Power cord extension

Item #EL04-13 - 16' (4.87m) Power cord extension

Item #EL04-14/5 - Heat Sink Package

Options: Lock Box

Lock Box: Push Button, Programmable Safe Box



Open Cover



Insert
Remote - Key



Program with ease



Replace Cover
Attach to wall (optional)

Security Features

- Strong Powder Coated Steel
- Comes with rubberized cover for complete aesthetics
- Mounting hardware included
- Simple code programming instructions included
- No key required
- Fits our 1-channel & 4-channel keychain controllers
- Holds traditional keys as well
- Length is approximate 4.5"

Electronics | Electronics Accessories

Options: Wind, Sun Sensor Solar Powered (MS / MSBD / MSD)

Weather Reactive Automation



Power voltage	Panel + Battery
Working temp	-40°C~+85°C
Frequency	433.92MHz
Transmit power	≤10mW
Protection level	IP55
Operation	Remote/ Manual

Set it & Forget it

FEATURES:

- Works with MaestroShield motors & controllers for:
 - Screens roll automatically up/down depending on settings & weather
 - Shutters when wind speeds reach set speeds, shutters roll down.
- Digital Settings—
- ABS Plastic materials that resist ultraviolet rays
- Solar Powered, no wiring required
- Easy Installation—wireless signal
- Quiet Operation
- Waterproof
- Multiple sensitivity settings
- 3 second response time to Wind (up to 50Km/h (31mph))
- 1.5 min response time to Light (.2 to 10klux)
- 2 year 100% replacement warranty coverage
- Approx. Range: 100 meters (320ft)

ITEM #	TYPE	USE
EL03-06WS	MS	MS Solar Powered Wind Sun Sensor

MaestroShield® Wind and Sun sensor system acts as a transmitter to operate with all *MaestroShield®* mini-receiver and matched transmitters during certain atmospheric conditions. When fitted to motors and control units, users are able to open and close shutters, screens and, awnings automatically based on the related weather conditions. The sensors measure the wind speed, sunlight intensity, and rain fall.



ITEM #	TYPE	USE
EL03-BDSNSNSR	MSBD	MSBD Solar Powered Wind Sun Sensor. (Pairs with Bidirectional Motors)
EL03-SNSNSR	MSD	MSD Solar Powered Wind Sun Sensor

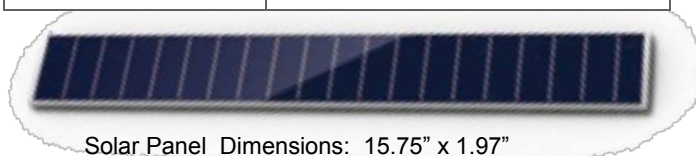
- Requires no AC power. Detects wind, sunny and rainy conditions. Perfect for shutters or awnings.
- 3 different wind-force settings, and 4 different light intensity settings.
- Solar powered, wireless control
- 433.9 Mhz
- Approx unobstructed range of 650ft (200 meters)



Options: Electronic Solar Panel



ITEM #	USE
EL03-39	Micro-USB Small Solar Panel
EL03-38	Micro-USB Small Solar Panel used with Lithium Battery motors

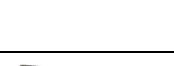


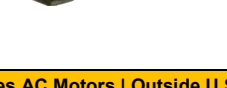
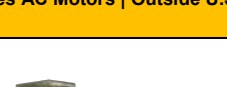
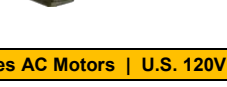
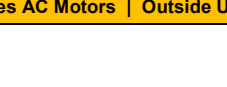
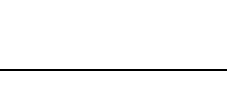
EL03-39



Part Compatibility

2022

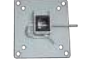
Tubular Motors						
Smart Silent Series AC Motors Built-in Receivers No Override						
Compatibility		Component	Component Name	Item #	Pcs per Box / Bundle	
Roll Down Shutters	Interior Shading Screens					
			Silent Smart Series 6Nm AC	SSWR06/28	8	
	x		Silent Smart Series 8Nm AC	SSWR008/19	8	
Silent Series DC Motors Built-in Receivers and Electronic Limit Switch No Override						
		x		Smart Silent Series 12V 1 Nm with Built In Battery	SSWR1201/30	30
		x		Silent Series 1Nm DC	SSWR01/30	20
Smart Series AC Motors Built-in Receivers and Electronic Limit Switch No Override						
		x		Smart Series 3Nm AC	ELSTM03/33	10
		x		Smart Series 6Nm AC	ELSTM06/28	10
		x		Smart Series 8Nm AC	ELSTM08/24	10
x	x			Smart Series 20Nm AC	ELSTM20/30	8
x	x			Smart Series 30Nm AC	ELSTM30/17	8
x	x			Smart Series 40Nm AC	ELSTM40/12	8
x	x			Smart Series 50Nm AC	ELSTM50/12	8
Standard Clutch Release Motor AC						
x				Clutch Release Motor	TMUS45M-50/13/Clutch	6
x				Clutch Motor Locking System	AC04-01	6
DC Motors No Override						
	x	x		DC Series 13Nm DC Pairs with Solar Panel	TMDC45BD-13/11PKG	10
		x		DC Series 0.7Nm DC	TMDC-.7W/12V	50
		x		DC Series 3Nm DC	TMDC-3W/12V	10
		x		DC Series 6Nm DC	TMDC-6W/12V-24	10
		x		DC Series 20Nm DC	TMDC-20W/12V	10
		x		DC Series 35Nm DC	TMDC-35W/12V	10
Standard AC Motors No Override						
				Standard Series 6Nm AC	TMUS35S-06/33	10
		x		Standard Series 10Nm AC	TMUS45S-10/32	10
x	x			Standard Series 20Nm AC 19rpm	TMUS45S-20/19	10
		x		Standard Series 20Nm AC 32rpm	TMUS45S-20/32	10
x	x			Standard Series 50Nm AC	TMUS45S-50/13	10
x				Standard Series 100Nm AC	TMUS59S-100/11	6
Hybrid Series AC Motors No Override						
x	x			Hybrid Series 20Nm AC 30rpm	TMRS45S-20/30	8
x	x			Hybrid Series 50Nm AC 13rpm	TMRS45S-50/13	8

Tubular Motors						
Hybrid Series AC Motors With Override						
x	x			Rebound Series 20Nm AC 30rpm	TMRS45M-20/30	8
x	x			Rebound Series 20Nm AC 30rpm	TMRS45M-50/13	8
Standard Series AC Motors Built-in Receivers With Override*						
x	x			Prodigy Series (120V) U.S. 20Nm 19rpm	TMUS45M-20/19	6
x	x			Prodigy Series (120V) U.S. 20Nm 32rpm	TMUS45M-20/32	6
x				Prodigy Series (120V) U.S. 30Nm	TMUS45M-30/13	6
x				Prodigy Series (120V) U.S. 40Nm	TMUS45M-40/13	6
x	x			Prodigy Series (120V) U.S. 50Nm	TMUS45M-50/13	6
x	x			Prodigy Series (220V) Outside U.S. 20Nm	TMEU-20M/02	6
x				Prodigy Series (220V) Outside U.S. 30Nm	TMEU-30M/02	6
x				Prodigy Series (220V) Outside U.S. 40Nm	TMEU-40M/02	6
x	x			Prodigy Series (220V) Outside U.S. 50Nm	TMEU-50M/02	6
Standard Series AC Motors U.S. 110-120V Manual Override						
x				Standard Series U.S. 60Nm	TMUS59M-60/14	6
x				Standard Series U.S. 80Nm	TMUS59M-80/14	6
x				Standard Series U.S. 100 Nm	TMUS59M-100/11	6
x				Standard Series U.S. 120 Nm	TMUS59M-120/09	6
Standard Series AC Motors Outside U.S. 220-240V Manual Override Special Order						
x				Standard Series Outside U.S. 60Nm	TMEU-60M/02	6
x				Standard Series Outside U.S. 80Nm	TMEU-80M/02	6
x				Standard Series Outside U.S. 100Nm	TMEU-100M/02	6
Standard Series AC Motors U.S. 120V No Override						
x				Standard Series U.S. 140Nm No Override	TMUS92S-140/12	2
x				Standard Series U.S. 180Nm No Override	TMUS92S-180/12	2
x				Standard Series 02 U.S. 230Nm No Override	TMUS92S-230/12	2
x				Standard Series 02 U.S. 300Nm No Override	TMUS92S-300/8	2
Standard Series AC Motors Outside U.S. 220V No Override Special Order						
x				Standard Series Outside U.S. 140Nm No Override	TMEU-140W/03	2
x				Standard Series Outside U.S. 180Nm No Override	TMEU-180W/03	2
x				Standard Series Outside U.S. 230Nm No Override	TMEU-230W/03	2
x				Standard Series Outside U.S. 300Nm No Override	TMEU-300W/03	2

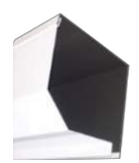
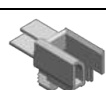
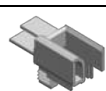
Tubular Motors							Crowns and Drive Gears for Motors						
Large Nm - AC Motors No Override Outside US 220V							Crowns and Drive Gears for Motors						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle	Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Maestro Screens	Interior Shading					Roll Down Shutters	Maestro Screens	Interior Shading				
x				Standard Series 02 Outside U.S. 220V 230Nm No Override	TMEU02-230W	2			X		Drive Gear	TMUS-SG472	20
X				Standard Series 02 Outside U.S. 220V 300Nm No Override	TMEU02-300W	2			X		Crown	TMUS-SC1170	20
Standard Series AC Motors U.S. 120V Manual Override									X		Drive Gear	TMUS-SG1171	20
				Standard Series U.S. 140Nm Manual Override	TMUS92M-140/12	2			X		Drive Gear (No Crown Needed)	TMUS-SG197	20
X				Standard Series U.S. 180Nm Manual Override	TMUS92M-180/12	2	X	x	X		Crown	TMUS-SC161	20
Standard Series AC Motors U.S. 120V Manual Override									X		Drive Gear	TMUS-SG163	20
				Standard Series 02 U.S. 230Nm Manual Override	TMUS92M-230/12	2	X	x			Drive Gear	TMUS-SG162	20
X				Standard Series 02 U.S. 300Nm Manual Override	TMUS92M-300/8	2			X		Crown	TMUS-SC505	20
Standard Series AC Motors Outside U.S. 220-240V Manual Override Special Order Only									X		Drive Gear	TMUS-SG510	20
				Standard Series Outside U.S. 140Nm Manual Override	TMEU-140M/03	2	x	x			Drive Gear (No Crown Needed)	TMUS-SG213	20
X				Standard Series Outside U.S. 180Nm Manual Override	TMEU-180M/03	2	X	x			Crown	TMUS-SC159	20
X				Standard Series Outside U.S. 230Nm Manual Override	TMEU-230M/03	2	x	x			Drive Gear	TMUS-SG160	20
X				Standard Series Outside U.S. 300Nm Manual Override	TMEU-300M/03	2	x	X			Crown	TMUS-SC259	20
				Standard Series 02 Outside U.S. 230Nm Manual Override	TMEU02-230M	2	X	x			Drive Gear	TMUS-SG260	20
X				Standard Series 02 Outside U.S. 300Nm Manual Override	TMEU02-300M	2	X	x			Crown	TMUS-SC276	20
HybridSeries AC Motors 110-120V Manual Override											Drive Gear	TMUS-SG166	20
				Hybrid Series 20 Nm w/o Manual Override	TMRS45M-20/30	6	X	X			Drive Gear	TMUS-SG277	20
X	X			Hybrid Series 50 Nm w/o Manual Override	TMRS45M-50/12	6	x	X			Drive	TMUS-SG65	20
X				Hybrid Series 100 Nm w/o Manual Override	TMRS59M-100/12	4	x	x			Crown	TMUS-SC309	20
Crowns and Drives for Motors											Drive	TMUS-SG310	20
		X		Crown	TMUS-SC153	20	x				Crown	TMUS-59OC	20
		X		Drive	TMUS-SG155	20		x			Crown	TMUS-45OC	20
		X		Crown	TMUS-SC123	20	x				Drive	TMUS-59OG	20
		X		Drive	TMUS-SG125	20	x	x	X		Drive	TMUS-45OG	20
		X		Crown	TMUS-SG241	20	x				Crown	TMUS-59C	20
		X		Drive	TMUS-SG265	20	x	X			Crown	TMUS-45C	20
		x		Crown	TMUS-SC458	20	x				Drive	TMUS-45G	20

Components (Parts and Pieces)					
Crowns and Drive Gears for Motors					
Compatibility			Component	Component Name	Item #
Roll Down Shutters	Maestro Screens	Interior Shading			
X				Drive Gear	TMUS-59G
		X		Crown	TMUS35-46.5RC
x	x	X		Drive Gear	TMUS45-46.5RG
		x		Drive Gear	TMUS35-35RG
		X		Drive Gear	TMUS-G14
		X		Drive Gear	TMUS-G02
x	x	x		Crown	TMUS-60OC2
X	x	x		Drive Gear	TMUS-60OG2
x	x	X		Crown	TMUS-54C
X	x	x		Drive Gear	TMUS-54G
x	x	x		Crown	TMUS-C18
X	x	x		Drive Gear	TMUS-G22
x	x	X		Crown	TMUS35-60OC
x	X			Crown	TMUS-96C
X	x			Drive Gear	TMUS-96G
x	X			Crown	TMUS-75C
X	x			Drive Gear	TMUS-75G
x	x			Crown	TMUS-61C
x	X			Drive Gear	TMUS-61G
X				Crown	TMUS-59RC
x				Crown XL System	TMUS-45UC
Control Systems					
Receivers					
x	x	X		Mini Receiver for 115V AC Motors	EL03-10MR10A
x	x	X		Mini Receiver for 220V AC Motors	EL03-12
x	x	X		Mini Receiver for 12V / 2A DC Motors	EL03-19
x	x	X		Mini Receiver for 12V / 10A DC Motors	EL03-20
X	X	X		Wall Mount Receiver	EL03-10WM-KS
X	X	X		External receiver	EL03-MR300

Electronics					
Remote Transmitters					
Compatibility			Component	Component Name	Item #
Roll Down Shutters	Maestro Screens	Interior Shading			
x	x	X		1-channel Wall Mount Remote	EL03-10WM01
X	X	x		6-channel Wall Mount Remote	EL03-10WM06
X	X	X		16-channel Wall Mount Remote	EL03-10WM16
X	X	X		1-channel Hand Held Remote	EL03-10HH01
X	X	X		6-channel Hand Held Remote	EL03-10HH06
X	X	X		15-channel Hand Held Remote	EL03-HH15
				16-channel Hand Held Remote	EL03-10HH16
x	X	x		Key Chain Remote	EL03-52
x	X	x		4-Channel Key Chain Remote	EL03-53
Hard-Wired Options					
X	X	X		Key Switch Flush Mount	EL03-18
X	X	X		Key Switch Surface Mount	EL03-16
X	X	X		Extra Blank Key	EL03-1000
X	X	X		Momentary Switch White	EL04-06
X	X	X		Momentary Switch Ivory	EL04-10
X	X	X		Maintain Switch White	EL04-07
X	X	X		Maintain Switch Ivory	EL04-08
X	X	X		Face Plate Ivory	EL04-02
X	X	X		Face Plate White	EL04-01
Home Automation					
x	x	X		Home Automation System Interface	EL03-75A
	x			Wind, Sun and Rain Sensor	EL03-06
Other Electronic Options					
x	x	X		4 Channel Motor Synchronizer	EL03-50
X	x			Vibration Sensor	EL03-10115
x	x	X		Power Distributor Board	EL03-51
X	x	X		Transformer	EL03-22
X	X	X		Transformer	EL03-22B
X	X	X		Transformer	EL03-23
X	X	X		Transformer	EL03-25
X	X	X		Battery Tube	EL03-30
X	X	X		Power Cord	EL04-12
X	X	X		Power Cord	EL04-13
x	X	x		Power Cord	EL04-14
x	X	x		Lithium Battery Charger	EL03-34

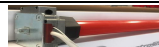
Electronics & Components						
Electronics Options						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Maestro Screens	Interior Shading				
X	X	X		Wind Sun Sensor Solar Panel Driver	EL03-06WS	1
X	X	X		SMART WI-Fi Controller Automation	EL03-11HA	1
X	X	X		ED Connector(s) LED Connector(s) w/single wire	ELEDC-00CN ELEDC-01SC	100
X	X	X		LED Lights 16ft Reel	ELEDL-3012 ELED-6012 (Blue or White) (30 or 60 LPF)	1
X	X	X		LED UL Power Supply (Driver) 100W 12V	ELEDP-60W12	1
X	X	X		LED Receiver	ELEDR-11MRL	1
X	X	X		LED 6-Channel & Light Controller	EL03-11HH06L	1
Manual Gears						
X				1/8 or 1/11 or 1/18 Manual Gear Box	AC02-07/08 AC02-07/11 AC02-0718	24
X				1/25 Manual Gear Box 1/50 Manual Gear Box	AC02-07/25 AC02-07/50	18
X				1/59 Manual Gear Box	AC02-07/100	6
Idler Bearing Cradles						
X				Idler Bearing Cradle	AC03-40	15
x				Idler Bearing Cradle	AC02-11	10
	X			60mm Idler Bearing w/ Spring	AC02-12-SL	20
X				60mm Idler Bearing	AC02-12	20
X				70mm Idler Bearing	AC02-05-110	20
X				86mm Idler Bearing w/ end cap	AC02-03	10
	X			86mm dler w/Spring fXL System (5.5 Tube)	AC02-03RSL	10
X				100mm Motor Tube Idler Bearing	AC02-04	10
Mounting Plates Brackets						
X	X			Universal Mounting Plate	AC03-03A	50
X	X			45° Mounting Plate	AC03-0801 AC03-0802	50
X	X			45° Mounting Plate For small leg side caps	AC03-13	50

Components and Brackets						
Brackets						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Maestro Screens	Interior Shading				
x				Heavy Duty Universal Bracket	AC03-20	10
X	X			Universal Bracket Plate	AC03-1201	25
X				Motor Star Bracket	AC03-06	20
X				Motor Star Bracket	AC03-16	20
X	x			Universal Bracket Plate	AC03-50	50
X				Harmony Mini Motor Mounting Bracket	AC03-04	20
X				Motor Mounting Cradle Bracket	AC03-07	20
Mounting Plates Brackets						
X				Small Angle Bracket	AC03-10	50
		X		3"x3" Snap-on Motor Bracket for Fascia	IS1039	20
		X		Snap-on Fascia Motor Bracket for Fascia	IS1038	20
		X		Snap-on Motor Bracket for Bracket	IS1018	20
x	x			Mounting Plate for Torque Spring	AC03-30	15
Hoods & Side Caps: available in White, Bronze, Beige, Ivory						
x	X			5 1/2" Impact-Rated Side Cap	CA02-139-WH, BZ, BG, IV	10
X	X			8" Impact-Rated Side Cap	CA03-205-WH, BZ, BG, IV	10
x	X			10" Impact-Rated Side Cap	CA03-250-WH, BZ, BG, IV	5
x	X			12" Impact-Rated Side Cap	CA03-300-WH, BZ, BG, IV	5
x	X			5.5" Round Extruded Hood, Front,	SM10F-5.5-XX (color BG, BZ, IV, WH)	1
x	X			5.5" Rounded Side Cap	CA10-139-XX (color BG, BZ, IV, WH)	20
x	X			6.5" Side Cap (no leg)	CA05-165-XX color (BG, BZ, IV, WH)	20
x	X			10" Side Cap (no leg)	CA05-250-XX color (BG, BZ, IV, WH)	20
				Removable Leg	CA05SM (color mill or WH)	20
x	X			7" Side Cap With small Leg	CA04-180-WH, BZ, BG, IV	20
x	X			8" Side Cap With small Leg	CA04-205-WH, BZ, BG, IV	20

Side Caps and Extrusions							Extrusions and Accessories							
Safety Plates for Side Caps							Slats Side Rails Bottoms Bars Accessories							
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle	Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle	
Roll Down Shutters	Maestro Screens	Interior Shading					Roll Down Shutters	Maestro Screens	Interior Shading					
x	X			5 1/2" Safety Plate for Side Cap	SM02B-5.5 (back) SM02F-5.5 (front)	20		X			Bottom Bar End Retention (Box)	WS9003A, WS9043	20	
X	x			8" Safety Plate for Side Cap	SM02B-8 (back) SM02F-8 (front)	20								
x	X			10" Safety Plate for Side Cap	SM02B-10 (back) SM02F-10 (front)	20		X	x		Side Rail (Front)	WSA9002F-WH, WSA9002F-BG, WSA9002F-BZ, WSA9002F-IV	1	
X	x			12" Safety Plate for Side Cap	SM02B-12 (back) SM02F-12 (front)	20		x	X		Side Rail (Back)	WSA9002B-WH, WSA9002B-BG, WSA9002B-BZ, WSA9002B-IV	1	
Hood Assembly Side Caps Extrusions Accessories														
X	x			5 1/2" 5-Sided 45° Extruded Hood	SM02B-5.5 (back) SM02F-5.5 (front)	1 back and 1 front					Adjustable Outer track	WSA9030B-XX colors: (WH, Bg, BZ, IV)	1	
X	X			8" 5-Sided 45° Extruded Hood	SM02B-8 (back) SM02F-8 (front)	1 back and 1 front			X					
X	X			10" 5-Sided 45° Extruded Hood	SM02B-10 (back) SM02F-10 (front)	1 back and 1 front			x			Adjustable Inner track	WSA9030F-XX colors: (WH, Bg, BZ, IV)	1
x	X			12" 5-Sided 45° Extruded Hood	SM02B-12 (back) SM02F-12 (front)	1 back and 1 front			X			Nylon Entry Guide (Bag)	WS9004C	20
				8" Hood 45 Deg w / Lip	SM01-08-WH, SM01-08-BG, SM01-08-IV, SM01-08-BZ				X			Nylon Entry Guide (Box)	WS9045	20
				10" Hood 45 Deg w / Lip	10" Hood 45 Deg w / Lip				X			Nylon XL System Entry Guide (Box)	WS9009HD	20
				12" Hood 45 Deg w / Lip	12" Hood 45 Deg w / Lip				X			Nylon Entry Guide with 44mm system	AC01-12SLM	10
X				Slat Hanger	AC10-01	100		X			Nylon Entry Guide with 44mm system small leg side caps	AC01-12SM	10	
X				Slat Hanger	AC10-02	100		X			Nylon Entry Guide with 55mm system large leg side caps	AC01-12A	10	
							Extruded Motor Tubes Fascia							
X				Non-Vented 56mm Slat	EX01-01S-WH, EX01-01S-BG, EX01-01S-BZ, EX01-01S-IV	10	X				Motor Tube MS 86mm	EX01-08/24	1	
x				Vented 56mm Slat	EX01-01V-WH, EX01-01V-BG, EX01-01V-BZ, EX01-01V-IV	10	X				Motor Tube MS 70mm Octagonal Inside, Round Outside	EX01-07/24	1	
X				Non-End Retention Side Rail	EX01-02	1	x				Motor Tube 100mm Round Triple Coat Protection Galvanized Steel	EX01-09/24	1	
X				Plastic Entry Guide (Bag)	AC01-12A	20		X			Motor Tube 5.5" (140mm) XL System Outer Tube	EX01-19/26 or EX01-19/30	1	
X				Plastic Entry Guide (Box)	AC01-12SM	20	x	x			Motor Tube 60mm Inner Aluminum Octagonal	EX01-16/24	1	
	X			Maestro Screen Bottom Bar (Front) Botom Bar (Back)	WSA9001F-XX, WSA9001B-XX (Colors: WH, BG, BZ, IV, BLK)	1			X		Motor Tube 4 inch Outer Tube	EX01-18/24	1	
	X			Maestro Screen XL (1 Pc) Bottom Bar	WSA9009HD-XX 26' or 30' (Colors: WH, BG, BZ, IV)	1								
x				End Retention Side Rail	EX01-05-XX (Colors: WH, BG, BZ, IV)	1								

Extrusions - Motor Tubes						
Extrusions - Motor Tubes						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Maestro Screens	Interior Shading				
	X			3 1/2" Motor Tube 86mm Outer	EX01-14/24A	1
	X			4" Motor Tube 108mm	EX01-18/24	1
Other Accessories						
X				2 Wing End Retention Slat Lock	AC06-02/1B	300
X				2 Wing End Retention Slat Lock	AC06-01/1B	300
X				Slat Cap	AC01-08	1000
X				Bottom Bar Lock	MS-1003	
X				Aluminum Bottom Bar for Lock System	MS-1004	2
X				Aluminum Bar	MS-1006	12
X				Assembled Locking Slat for Aluminum Roll Down	MS-1007	19
X				Felt	AC01-10	1
Other Accessories						
X	X			5/8" Hole Caps	AC01-11-XX (WH, IV, BG, BZ)	1
X	X			Conic Stopper	AC07-04 (WH)	100
X	X			Conic Stopper	AC07-03 (IV/BG)	100
X	X			Conic Stopper	AC07-05 (BZ)	100
X				Rubber Ring	AC01-05	20
X				Slat Gasket	AC01-17	2
X				Water Seal Gasket	AC09-01	1
X	X			Brush Seal 19mm (0.75") 31.75mm (1.25") 48.26mm (1.9")	AC05-01 (.75") AC05-07(.75") AC05-06(1.0") AC05-03 (1.25") AC05-04 (1.9")	1
	X			Rubber Seal 65.25mm (3.75")	WS1010	1

Components						
Other Components						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down shutters	Maestro Screens	Interior Shading				
x				Brush Seal 12mm (0.25")	AC05-02	1
	x			Zipper #8 gauge	WS-1006	1
				Zipper #8 gauge	WS-1001	1
x	x	x		Weightbar, Stainless Steel, 3/8" round	WSA9100	1
	x			Spline for Screen	WS-1003	1
				Spline for Screen	WS1004	1
	x			Adjustable Track Foam	WS1005	1
x				Spring Block 2"x 3"	AC07-01	1
x				Spring Block 2"x 4"	AC07-02	1
Universals & Crank Handles						
x	X			90° / 4 Hole Universal w/ pivot	AC908-02	30
X				90° / 4 Hole Universal w/ eyelet	AC908-12	30
X				90° / 2 Hole Universal w/ pivot	AC908-01	30
X				90° / 2 Hole Universal w/ eyelet	AC908-11	30
x				Stainless Steel 90° / 2 Hole Universal w/ pivot	AC908-SS01	30
x	x			45° / 2 Hole Universal w/ pivot	AC908-04	30
x				45° / 2 Hole Universal w/ eyelet	AC908-14	30
x				Stainless Steel 45° / 2 Hole Pivot	AC908-SS04	30
X	x			5' Handle with Bell Coupling	AC908-51	20
X	X			6' 4" Handle with Bell Coupling	AC908-61	20
x	X			10' Handle with Bell Coupling	AC910-11	20
X				5' Handle with Hook	AC908-52	20
X				6' 4" Handle with Hook	AC908-62	20
X				10' Handle with Hook	AC908-12	20
				Crank Handle-5' w/ Hook	AC908-SS52	
				Crank Handle-6'4" w/ Hook	AC908-SS62	
				Crank Handle-10' w/ Hook	AC908-SS12	

Accessories						Dealer Tools							
Cranks with durable stainless steel and Accessories						Dealer Kits and Samples							
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle	Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Maestro Screens	Interior Shading					Roll Down Shutters	Maestro Screens	Interior Shading				
				Crank Handle-5' w/ Bell	AC908-SS51					Dealer Bag	PR04-01		
				Crank Handle-6'4" w/ Bell	AC908-SS61								
				Crank Handle-10' w/ Bell	AC908-SS11								
X				Eyelet Exterior Operator	AC02-10	20							
Spring Assists						MOTORS							
X				Spring Assist Torque Spring	AC11-601	4							
X				Spring Assist Torque Spring	AC11-602L (left) AC11-602R (right)	4							
X				Spring Assist Torque Spring	AC11-701	4							
X				Spring Assist Torque Spring	AC11-702	4							
X				Spring Assist Torque Spring	AC11-703	4							
X				Spring Assist Torque Spring	AC11-705	4							
X				Spring Assist Torque Spring	AC11-706	4							
Complete Aluminum Roll Down Shutters Ready To Install						Rebound Bidirectional PKGS - AC Motor with/without Override							
X				Aluminum Roll Down Shutters; Non-End Retention	CS01-Non End-WH, CS01-Non End-IV, CS01-Non End-BG, CS01-Non End-BZ	Up to 88"					Rebound Series PKG 20Nm AC 30rpm	TMRBD45BDS-20/19PKG	10
X				Aluminum Roll Down Shutters; End Retention	CS01-End Ret-WH, CS01-End Ret-IV, CS01-End Ret-BG, CS01-End Ret-BZ	Up to 262"					Rebound Series PKG 50Nm AC 13rpm	TMRBD45BDS-50/13PKG	10
Dealer Tools						Hybrid Bidirectional PKGS - AC Motor With Override							
				2-panel Aluminum Roll Down Demo Board	Call for Details	1					Hybrid Series PKG 50Nm AC 13rpm	TMHY45M-50/13PKG	6
				Single Sided Mini Demo Aluminum Roll Down Motorized	PR05-04-WH, PR05-04-IV, PR05-04-BG, PR05-04-BZ	1					Hybrid Bidirectional PKG Series 50Nm AC 13rpm	TMHY45BDM-50/13PKG	6
				Single Sided Mini Demo Aluminum Roll Down Manual	PR05-05-WH, PR05-05-IV, PR05-05-BG, PR05-05-BZ	1					Hybrid Bidirectional PKG Series 100Nm AC 11rpm	TMHY59BDM-100/11PKG	6
				Single Sided Mini Demo Maestran Roll Down Motorized	PR05-07-WH, PR05-07-IV	1					Hybrid Series PKG 120Nm AC 9rpm	TMHY59M-120/9PKG	6
				Single Sided Mini Demo Screen Roll Down Motorized	PR05-10	1							
Remote Transmitters						Rebound Series AC Motors With Override							
X	X	X		MSBD 1-channel Bidirectional Handheld Remote Control	EL03-BDHH01	20	X			To come	Rebound Series 50Nm AC 14rpm	TMRB45M-50/14	6
X	X	X		MSBD 15-channel Bidirectional Handheld Remote Control	EL03-BDHH15	20							
X	X	X		MSBD 1-channel Bidirectional Keychain Remote Control	EL03-BDKEYCH	20							
X	X			MSD 4-channel Handheld Remote Control	EL03-HH04	20							
X	X			MSD 15-channel Handheld Remote Control	EL03-HH04	20							
This is a only partial list of products.													
Please contact Maestrosshield for any additional parts and pieces, 220V/230V Motors & Electronics, as well as any need for custom products.													

Company

| PROFILE & WARRANTY



MaestroShield is successfully founded on the three stars of:

- ★ **Quality**
- ★ **Price**
- ★ **Delivery**

We are proud to be one of the most rapidly growing suppliers of exterior screen and shade, interior shade, hurricane protection, security shutters, electronics and tubular motors. MaestroShield is a well-established innovative design, engineering, manufacturing and supply company. All of our products are designed and developed in-house by both Swedish and American engineers using only the highest quality materials. Quality assurance is the hallmark of our manufacturing philosophy. All of our aluminum extrusion, castings, motor and electronic manufacturing facilities follow ISO 9001 standards.

Our aluminum factory produces more than 200,000 metric tons of extrusion per year and our tubular motor factory produces over one million UL and CE motors annually.

MaestroShield® participates with the following associations: the Aluminum Association of Florida, the International Hurricane Protection Association with our structural certification held through the National Accreditation and Management Institute (NAMI). Our products have been rigorously tested by the Miami Dade Building Code, The

Florida Building Code and the Texas Department of Insurance.

Our commitment to engineering excellence and production is surpassed only by our commitment to complete customer satisfaction. Our International network of dealers is supported with quick and accurate in-house engineering, sales and marketing support and a full range of training.

MaestroShield®, is a Swedish-based international company that was formed to develop, produce and distribute high-quality, innovative window protection and shading systems for global markets. The MaestroShield™ family of window safety, security, and shading products has been engineered to exceed the highest certification standards required. Our commitment to engineering excellence is surpassed only by a commitment to complete customer satisfaction. Quality, Price and Delivery drive our operations and have made us a reliable entity in our industry that is "known for quality."

MaestroShield's dealer-based business-to-business platform is supported by quick and accurate in-house engineering, technical support, full-range training services, and exceptional customer service. MaestroShield products reflect quality from inception to full production and are stamped with approvals from the most rigorous regulatory agencies. We operate under ISO 9001 Quality System guidelines and offer our customers

outstanding warranties, service and the most reliable supply of an ever-growing and innovative line of unique products. MaestroShield® brings to the market, easy-to-install, top quality products, at competitive and reasonable price points. Continuous improvement of our products, enhances the versatility & diversity of our product lines and ensures our customers have the "best-in-class."

Roll-Down Aluminum Shutters

MaestroShield® Aluminum Shutters, and Hurricane Products have passed the FBC (Florida Building Code) certifications (FL7873-R10, FL14235, FL13757), Miami-Dade County (NOA # 17-0206), together with our NAMI Certification, and Quality Management System, MaestroShield® remains dedicated to the very highest of quality standards.

PCT Patent pending in 110 countries, MaestroShield® guarantees long-term Protection Like No Other™. Available as separate pieces, and/or parts and as custom-made complete shutter systems, MaestroShield® Roll down Aluminum Shutter systems have been designed to fit every opening. We can also provide custom aluminum extrusions that are engineered to fit your specific, unique, requirements.



EXTERIOR SCREENING

MaestroShield's Screens provides complete solutions to meet the challenges of controlling light, heat, insects and inclement weather. As an ODM (original design manufacturer), we are unique to the industry for: major shading and screen components; from motors to side-tracks, bottom bars, hoods and electronics. By doing this, we supply our Dealers and customers with the complete package: innovative design and engineered quality products, competitively-priced, with controlled delivery, outstanding customer service, industry leading warranties, and a network of dealers ready to service your every need. In order to match the elegance of your exterior, there are a wide range of choices from leading fabric manufacturers that are compatible with our Maestro Screens, including an exclusive clear vinyl.

Interior Shading

MaestroShield® offers motors to work cohesively with interior shading automated installations.

Motors and Electronics

The ability to provide the market with a better, quality-driven tubular motor with increased reliability at a lower total cost goes back to the dedication of the engineers behind the product. The enhanced performance of the MaestroShield Brand Tubular Motor goes beyond anything else available in the market that achieves a balance between power and life cycle that is truly "Like No Other." Based upon lifecycle and capacity tests, MaestroShield motors carry a (5*) *five-year replacement warranty and DC motors carry a (2) two-year replacement warranty, Lithium battery motors carry a (1) one-year replacement warranty, after the product registration card is submitted and beginning on the sale date to the Dealer.

MaestroShield Electronic accessories have been developed according to the same high-quality standards and protocols, and are the most reliable products on the market, tested by a industry driven cross-section of companies.

Continuous Improvement

MaestroShield strongly believes in continuous improvement and growth. Dedication to Quality, Price and Delivery, bundled with Dealer-training, Technical Support, & readily available inventory will continue to move MaestroShield's place forward to a new level in the Hurricane and Security Protection, Exterior Screening, Interior Shading and Tubular Motors and Electronics industries.

Order Cancellation Policy

Orders maybe cancelled within 24 hours of placement and receipt of signed purchase order provided that the items have not already been shipped. For order cancellations after this period, MaestroShield reserves the right to charge a 20% order cancellation fee. Orders which are refused at delivery will be assessed a restocking fee in addition to any shipment costs that have resulted in either direction. No credit will be issued, except in exchange for other merchandise. Orders for custom products or those that require special handling are non-cancellable.

WARRANTY RETURNS

GENERAL RETURN & EXCHANGE POLICY

All items for warranty consideration must have active product registration with serial number on file, and must obtain a RMA# (return-material-authorization-number) from MaestroShield®. RMA should be marked on outer package, before returning. Items received without an RMA number will not be considered for warranty return, or replacement. Returns are subject to MaestroShield's acceptance, and a restocking charge of 20% of invoiced value will apply on all returned items. Items approved for return must be returned in appropriate packaging, freight prepaid and accompanied by a copy of the original invoice. Items that arrived damaged or cannot be returned to stock will not receive credit. Exchanges of merchandise will be allowed providing all conditions outlined in Warranty Statement and Return Policy have been met. Any remaining dollar balance left unused after the exchange, or return, will be issued as an open credit on the account for future use. All exchanged product will carry the remainder warranty of originally purchased and replaced product. Extended warranties can be customized and procured through customer service at 1-239-596-8883.

SCREEN RETURN POLICY

Sale of ALL custom-made orders are final and are limited to repair or replacement (at our sole option) of included parts of the screen found to be defective under this Warranty Statement. In no event shall MaestroShield be liable for damages of any type, including, but not limited to: economic loss; or any indirect, punitive, special, incidental, or consequential damages of any type, including, but not limited to, time, wages or lost profits, of any nature or kind, or for damages to or loss of property, whether caused by negligence or otherwise.

GENERAL WARRANTY IMPLICATIONS and LIMITATIONS

Warranties do not cover any damage to MaestroShield® products that result from improper installation, accident, abuse, misuse, natural disaster, severe weather conditions, insufficient or excessive electrical supply, abnormal mechanical or environmental conditions, lightning or any unauthorized disassembly, repair or modification. Warranties do not apply to any product on which the original identification information has been altered, obliterated or removed, has not been handled or packaged correctly, has been sold second hand or has been sold contrary to the United States export regulations without consent from MaestroShield®.

PLACING A CLAIM

To place a warranty claim, contact MaestroShield Customer Service at +1 (239) 596-8883 or toll free (866) 549-0269. All defective materials must be returned for evaluation within 30 days of replacement or dealer will be billed for replacement.

WARRANTY STATEMENT

Should there be evidence of a potential warranty issue within the specified warranty period, MaestroShield® will follow its standard policy to ensure that a new product is sent to the MaestroShield® Dealer who originally purchased the product, and has registered the warranty through the return product card system. The defective part must be returned to MaestroShield® for evaluation within 30 days of the warranty replacement. Should more than 30 days elapse or should the product evaluation prove the malfunctioning of the product was the result of any aforementioned items, the Dealer will be notified of the point of failure and subsequently charged the cost of the replacement part.

Smart Controllers, Solar Panels, Lithium Battery Motors, LED Drivers, LED Lights, LED Receivers are covered by a maximum 1-year replacement warranty.

Electronics , DC Motors are covered by a full 2-year replacement warranty.

Components (listed) are covered by a full 2-year replacement warranty: all DC motors without lithium batteries, manual gears; universals; mounting plates; idlers; spring blocks; crown and drive gears; brush seals and gaskets; plastic parts (entry guides, conic stopper, hole caps).

Tubular motors *(does not apply to DC motors or lithium battery motors)*, **are covered by a full 5-year replacement warranty.**

***Powder coating warranty on extrusions and castings:** AAMA 2603 10-year /1-year marine and/or severe weather environments (example FL and/or within 1-mile of coastal shoreline(s)). The "Warranty Period" shall commence from the date of application of the specified powder product. **CONDITIONS OF NON-WARRANTY:** i Where any damage to or deterioration of the coating system arising from causes including, but not limited to, impact, abrasion, mechanical damage, neglect, malicious damage, fire damage, pollution, abnormal weather conditions and excessively salty environments; ii. Where the surfaces have been recoated in plant or touched up for any reason without the prior written agreement; iii. Where exposed surfaces have not been adequately sealed or protected, or protection has been breached; iv. Where failure is associated with exposure of the coatings to temperatures in excess of 70 degrees Celsius, or to acid or other hazardous sources, which are damaging to powder coatings; v. Where failure is associated with the use of adhesive tapes or with the use of sealants or mastics; vi. Where the coated surfaces have not been maintained by the property owner in accordance with the supplier's recommended care and maintenance procedures.; vii. Where damage or deterioration is caused by any accident or normal wear and tear or by any default or misuse of the powder coated products by the property owner or any third party; viii. Where the aluminum extrusions used in the joinery have not been powder coated by an approved Applicator; ix. Where it cannot be substantiated that a product from the originating powder coat source was used; x. if defective area is less than <5% of total coated surface; xi. Unless all claims are received in writing within 30 days of defect becoming apparent.

MAINTENANCE RECOMMENDATIONS: The long term color integrity of powder depends on the degree of exposure to the natural elements and the color chosen. Where the coating is subject to pollution or a salty or coastal environment, the long-term color retention properties may be affected. Cleaning should be done yearly with warm water, soft cloth and a non-abrasive pH neutral detergent followed by fresh water rinse. Harsh environment cleaning recommendation is quarterly. Most household cleaners and solvents in addition to all alcohol-based, acidic, or alkaline OTC cleaners, should not be used.

10* YEAR SCREEN FABRIC WARRANTY: *Most fabric manufacturer's offer 10 year warranty on fabric(s). All fabric warranty claims are a pass-through warranty and are administered by the fabric manufacturer. Please contact fabric manufacturer for details on any warranty coverage information. MaestroShield assumes no responsibility for claims made on defective and/or malfunctioning fabrics either separately or as a component of screen assembly.

LIMITED WARRANTY STATEMENT

FABRIC CORNERS & WELD WORKMANSHIP - LIMITED WARRANTY STATEMENT

Should there be evidence of a potential warranty issue, beyond the initial inspection period of 30 days from receipt, and within the specified warranty period (in this case within 1-year of purchase), MaestroShield® will follow its Limited Warranty policy to ensure that a new product is sent to the MaestroShield® Dealer who originally purchased the product, and has previously registered the warranty through the return product card system. The defective product must be documented through pictures, and may be asked to be returned to MaestroShield® for evaluation within 30 days of the warranty notification request. Should more than 30 days elapse or should the product evaluation prove the defective product was the result of any aforementioned items, the Dealer will be notified of such, and subsequently charged the cost of the replacement product.

GENERAL WARRANTY IMPLICATIONS and LIMITATIONS

Warranties do not cover any damage to MaestroShield® products that result from improper installation, accidents, abuse, misuse, natural disaster, severe weather conditions, general wear, negligence, insufficient or excessive electrical supply, abnormal mechanical or environmental conditions, lightning or any unauthorized disassembly, repair or modification. Warranties do not apply to any product on which the original identification information has not been filed, or has not been handled or packaged correctly, has been sold or resold second hand, or has been sold contrary to the United States export regulations without consent from MaestroShield®. *MaestroShield assumes no responsibility for claims made on defective and/or malfunctioning fabrics either separately or as a component of screen assembly. *Most fabric manufacturer's offer 10 year warranty on fabric(s). All fabric warranty claims are a pass-through warranty and are administered by the fabric manufacturer.

FABRIC/SCREEN RETURN POLICY

Sale of ALL custom-made orders are final and are limited to repair or replacement (at our sole option) of included parts of the screen found to be defective under this Warranty Statement. In no event shall MaestroShield be liable for damages of any type, including, but not limited to: economic loss; or any indirect, punitive, special, incidental, or consequential damages of any type, including, but not limited to, time, wages or lost profits, of any nature or kind, or for damages to or loss of property, whether caused by negligence or otherwise.

NO OTHER EXPRESS WARRANTIES

The Limited Warranty set forth herein constitutes the entire express warranty and representation of MaestroShield® with regard to its screen fabric products. This Limited Warranty shall be controlling over any conflicting terms and conditions of any purchase order, orders, contracts, or invoices both written and oral, that may be executed in connection with the purchase of MaestroShield® products. No representation or warranty made by any MaestroShield® distributor, dealer, agent, installer, or any type representative or employee shall be binding to MaestroShield® other than the terms set forth herein.

GENERAL FABRIC INFORMATION:

10* YEAR SCREEN FABRIC WARRANTY:

*Most fabric manufacturer's offer 10 year warranty on fabric(s). All fabric warranty claims are a pass-through warranty and are administered by the fabric manufacturer. Please contact fabric manufacturer for details on any warranty coverage information. MaestroShield assumes no responsibility for claims made on defective and/or malfunctioning fabrics either separately or as a component of screen assembly.

(On-Line Quoting & Ordering)

It's as easy as entering your measurements.

That's it.... It's that easy!



Meet TOM: “The On-line Maestro”

The On-Line Maestro (aka “T.O.M.”) will take over and tell you just exactly what you need, price it for you, convert it to an order and create a Bill of Material, as well as cut sheet with accurate specifications for your fabricator. T.O.M. allows you to automate the sales and estimating process for all of our roll down shutters and exterior screens, from your computer, tablet, or smart phone anytime and anywhere there is a connection.

T.O.M. is a secure, web-based order management application designed for “all” the participants in the supply chain (Dealers, Fabricators, Distributors, etc.). Its flexible design is tailored towards any unique requirements including pricing. With the appropriate authorizations, information entered can flow either up or down the supply-chain. You customize your own settings. Call us to set up your account and password to save yourself numerous hours of work and effort, let T.O.M. do it for you!

Quotes will be automatically priced and discounted according to varying levels of price structures assigned, and appropriate Dealer will be prompt upon entered quotation. Quotes can be converted to orders, along with BOM and cut sheets if required. Quotes can be archived indefinitely for ease of researching historical data.

Features:

- E-mail quotes in matter of seconds
- Generate bills of material, pick lists, cut sheets
- Create, place purchase orders
- Much, much more, In addition to technical data at your fingertips

T.O.M. was designed with “you” in mind.

Give us a call, he'd love to meet you!

1-239-596-8883

The screenshot displays the T.O.M. web application interface. On the left, there's a 'My Company Logo' section with fields for company name, address, phone, and email. Below this is a 'Company and Pricing' section with various input fields for pricing and discounts. On the right, a vertical sidebar shows the unit details for 'Bedroom1' with a quantity of 1. The sidebar lists specifications such as Finished Height (73 3/4), Finished Width (132 5/8), Rail Choice (Beige Recessed), Outer Rail Length (68 1/4), Inner Rail Length (68 3/8), Hood Choice (Standard Beige Hood), Hood Length (132 1/4), Bottom Bar Color (Beige Bottom), Bottom Bar Length (127 5/8), Felt Length (128 1/8), Weight Bar Length (126 1/8), Operator Side (Side A), Operator Position (Position 1), Outer Tube Length (127 7/8), Inner Tube Qty (2), and Inner Tube Length (28 1/2). The main area contains a detailed quote table with columns for Item, Description, Quantity, Unit Price, and Total Price. The table lists various components like rails, hoods, and tubes with their respective quantities and prices.



MaestroShield®

Protection Like No Other

2141 Flint Drive, Florida 33916

Phone: +1.239.596.8883 • Fax: +1.239.596.8823

Toll Free: 1.866.549.0269

Technical Support: +1.239.206.9115

www.maestroshield.com



**Planning Staff Report to
Design Review Board - Urban
April 25, 2022
for the May 5, 2022 Public Hearing**

Docket Number: CA 22-276
Applicant: Brad Ecklund/Urban Architecture
Property Owner: Merrill Gardens at Greenville, LLC
Property Location: 90 Payne Street
Tax Map Number: 0056000700200
Acreage: 2.21
Zoning: C-4, Central Business District
Proposal: Façade material change
Staff Recommendation: **Approval**

Staff Analysis:

The applicant proposes an alteration to previously approved CA 19-87 and 20-455 for a replacement of the aluminum siding to a fiber cement panel product of a similar color.

The material change is limited to the horizontal banding at the base of the building on the northeast and southwest corners, a small wall section on the east elevation, and two narrow vertical elements on the west elevation (also visible on the south elevation). These changes affect approximately 1 percent of the façade area on the east and north elevations and 2 percent of the south and west elevations.

The proposed fiber cement panel material and selected color are consistent with the previously approved materials palette, which included fiber cement paneling with a warm gray color scheme.

Summary

Staff finds that the change in material complies with Section PRI 6 of the Downtown Design Guidelines and does not adversely affect the appearance of the building. Staff also finds that the change of material serves to elevate the architectural detail of the vertical elements previously mentioned.

Therefore, staff recommends **approval of the project with the following comments:**

- 1. Per the recent Section 19-1.11 LMO Text Amendment, an Affidavit of Substantial Compliance must be signed and notarized by the property owner prior to the issuance of the Certificate of Conformity.**
- 2. This CA is considered a specific site development plan. As such, the CA issued for this project shall be subject to Land Management Ordinance Section 19-2.2.14 *Lapse of approval/vested rights* and the Vested Rights Act, Article 11, of Chapter 29, Title 6, of the Code of Laws of South Carolina, 1976 (S.C. Code §§ 6-29-1510 et seq.). The CA shall be valid for a period of two years from the date of approval by the Board. The Vested Right shall be granted up to five annual extensions upon a written request for an extension that must be received from the applicant at least sixty (60) days before expiration, unless any change or amendment to the land development ordinance or regulations of the City of**

Greenville's Code of Ordinances were to be amended that would no longer allow execution of the site-specific development plan. At any time during the two-year period or any subsequent Vested Rights extensions, the applicant may be granted a building permit from the City Building Official. Should the CA expire at any time prior to the application for a building permit, such permit shall not be issued until a current CA is provided.

Relevant Design Guidelines:

PRI 6. MATERIALITY

- 6.1 Use high quality materials that are chosen to be compatible with their surrounding context but also to elevate the existing diversity and character of the area.
- 6.2 Materials used within proximity to pedestrian areas must have the durability to withstand heightened activity and wear.
- 6.3 Reuse existing or refurbished materials.
- 6.4 Use materials that convey a sense of human scale; that is, meant to be experienced by the pedestrian, not vehicular, user.
- 6.5 Use authentic materials. When this is not possible, ensure that synthetic materials realistically convey the materials that they represent.
- 6.6 While excessive uniformity and monotony are discouraged, variations in materials and colors must be composed and balanced to create a unified whole.
- 6.7 Use light colored (high albedo) materials for roofing and landscaping to reflect radiant heat.
- 6.8 Brighter, bolder colors (including corporate branding colors) may be applied to areas or elements of the building where they are secondary in application compared to the main body or features of the building (such as signage, canopies, or accent trim), or are otherwise applied in ways that do not dominate the overall color palette or cause the building to look out of place relative to the area. Counteract stronger colors by integrating natural materials and textures into the overall design.



**APPLICATION FOR
CERTIFICATE OF APPROPRIATENESS**

Contact Planning & Development (864) 467-4476

Office Use Only:

Application# _____ Fees Paid _____
Date Received _____ Accepted By _____
Date Complete _____ App Deny Conditions _____

APPLICANT/OWNER INFORMATION

*Indicates Required Field

	APPLICANT	PROPERTY OWNER
*Name:	Brad Ecklund, Urbal Architecture	Merrill Gardens at Greenville, LLC
*Title:	Project Manager	
*Address:	524 E Burnside St, Ste 230	1938 Fairview Ave. E, #300
*State:	Portland, OR	WA
*Zip:	97214	98102
*Phone:	503-444-9563	253-448-3081
*Email:	brade@urbalarchitecture.com	zachl@pillarproperties.com

PROPERTY INFORMATION

*STREET ADDRESS 90 Payne St

*TAX MAP #(S) 0056000700200

*PRESERVATION DISTRICT/SPECIAL DISTRICT C-4

*ARE THERE EXISTING STRUCTURES ON THE PROPERTY? ____ Yes ____X No

DESCRIPTION OF REQUEST

*SELECT APPLICATION TYPE: ____ CA Neighborhood New ____ CA Neighborhood Modification (____ Major/ ____ Minor)
____ CA Urban New ____X CA Urban Modification (X Major/ ____ Minor)
____ CAS Staff New (____ Major/ ____ Minor) *please see item D. for description
____ CAS Staff Modification
____ Informal Review

*ORIGINAL APPLICATION # (put N/A if new application) CA 19-87 NOA / CAS 20-455

To include: scope of project and response to specific guidelines and special conditions.

Major modifications to an approved project. The client has requested changing the approved aluminum siding paneling to a fiber cement panel of a similar color. Additionally, there was a slight adjustment to storefront windows for structural coordination. The applicant is only seeking approval for the material change.

INSTRUCTIONS

1. All applications and fees (made payable to the City of Greenville) for Certificate of Appropriateness must be received by the planning and development office no later than 2:00 pm of the date reflected on the attached schedule.

A. URBAN DESIGN PANEL	\$300.00, <i>site plan review</i>
	\$300.00, <i>architectural review</i>
B. SIGNS	\$150.00
C. NEIGHBORHOOD DESIGN PANEL	\$150.00
D. APPLICATION FOR STAFF REVIEW	
<u>Major</u> : All site development activity, roof gardens, decks, or accessory structures; or any project that requires consultation with a member of the DRB.	\$100.00
<u>Minor</u> : Color change; replacement of windows/doors; additions, deletions or replacement of awnings; re-roofing; and projects that do not involve structural alterations, increase/decrease in window/door area or removal of architectural features. Also, parking lots, service enclosures, exterior lighting and additions to building that do not exceed 25% of existing building footprint, except the West End Preservation Overlay District.	\$50.00
E. MODIFICATION TO AN APPROVED PROJECT	
Major (requires review by DRB)	½ Original Fee
Minor (requires review by staff)	\$50.00
F. INFORMAL REVIEW	\$50.00

2. The staff will review the application for "sufficiency" pursuant to Section 19-2.2.6, Determination of Sufficiency and will contact the applicant to correct any deficiencies which must be corrected prior to placing the application on the Design Review Board agenda.

3. **Public Notice Requirements.** Certificate of Appropriateness applications require a design review board public hearing. The applicant is responsible for sign posting the subject property at least 15 days (but no more than 18 days) prior to the scheduled design review board hearing date.

(To be filled out at time of application submittal)

_____ Public Hearing signs are acknowledged as received by the applicant

***APPLICANT SIGNATURE**



1. You must attach one (1) complete set of scaled drawings of the property at an appropriate scale such as 1"=20' or 1/4" = 1', etc. Although construction drawings are not required, applicants for final approval should be able to provide construction drawings at the Design Review Board's (DRB) request. The Board may request additional information at any time to fully understand the proposal. Items submitted to the Board become the property of the City and will not be returned.

SITE PLAN REVIEW

- Site Plan Drawings (indicating footprint of existing buildings, proposed building, proposed exterior elements, demolition of existing site features, floor plan, proposed exterior equipment, etc.).
- Massing Studies and Images (images shall be high resolution and should depict adjacent building, proposed building massing from various viewpoints, initial architectural details, photos of surroundings to review context, etc.).

- Model (physical or digital model that includes the surrounding context with massing only, no texture or articulation is required). **The contextual model for the DRB boundary can be downloaded here: <https://greenvillesc.gov/364/Access-GIS-Data>, and is provided as a .skp file.**
Data is updated monthly.

ARCHITECTURAL REVIEW

- Elevation Drawings of all Exterior Sides (indicate proposed materials, existing grade and proposed grade, proposed mechanical equipment, outdoor lighting fixtures, landscape drawings, design and location of signage, removal of existing building elements, addition to existing building, a streetscape elevation of building adjacent to and across the street from the site, including the proposed building).
- Sections (include vertical dimensions in feet, building sections where significant changes occur in building volume, wall section for review of material relationships).
- Detail Drawings (include material and methods of each type of construction affecting the exterior appearance of the structure, samples, brochures and photographs of all exterior finishes, windows, fixtures, lighting and signage).
- Renderings (include perspective drawings, including views from pedestrian and public realm).
- Model (physical or digital model that includes the surrounding context and should include accurate scale, architectural detail to the extent that it describes the design intent, proposed textures and proposed signage).

For more detail on these submittal requirements, please refer to the **Greenville Downtown Design Guidelines**, adopted May 2017.

Please verify that all required information is reflected on the plan(s). Please submit one (1) paper copy and one (1) electronic version of the plan(s).

4. **Please read carefully:** The applicant and property owner affirm that all information submitted with this application; including any/all supplemental information is true and correct to the best of their knowledge and they have provided full disclosure of the relevant facts.

In addition the applicant affirms that the applicant or someone acting on the applicant's behalf has made a reasonable effort to determine whether a deed or other document places one or more restrictions on the property that preclude or impede the intended use and has found no record of such a restriction.

If the planning office by separate inquiry determines that such a restriction exists, it shall notify the applicant. If the applicant does not withdraw or modify the application in a timely manner, or act to have the restriction terminated or waived, then the planning office will indicate in its report to the planning commission that granting the requested change would not likely result in the benefit the applicant seeks.

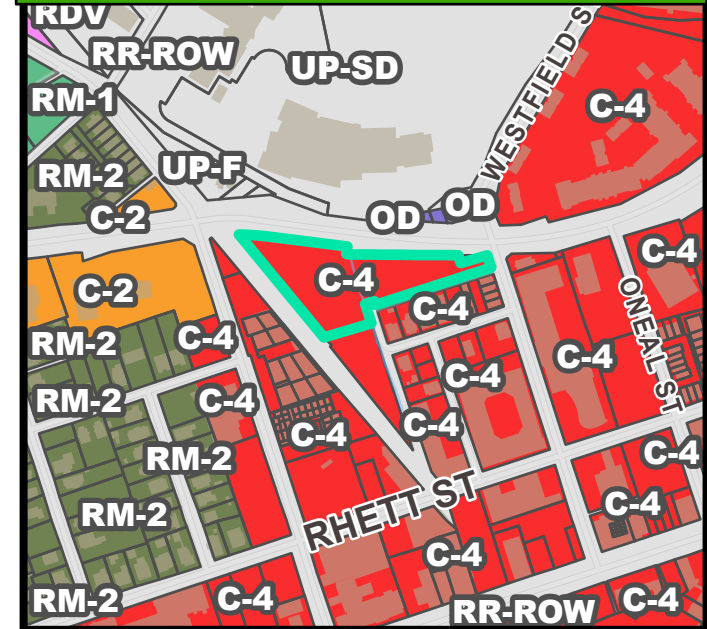
To that end, the applicant hereby affirms that the tract or parcel of land subject of the attached application is ___ or is not X restricted by any recorded covenant that is contrary to, conflicts with, or prohibits the requested activity.

*Signatures	
Applicant	
Date	04/04/22
Property Owner/Authorized Agent	
Date	04/04/22
Public Hearing information	
Public Hearing signs	

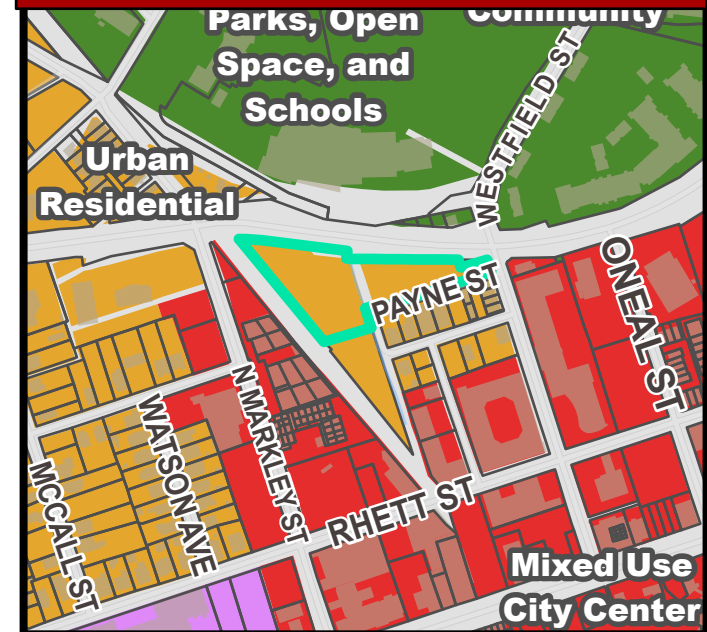
AERIAL VIEW



CURRENT ZONING



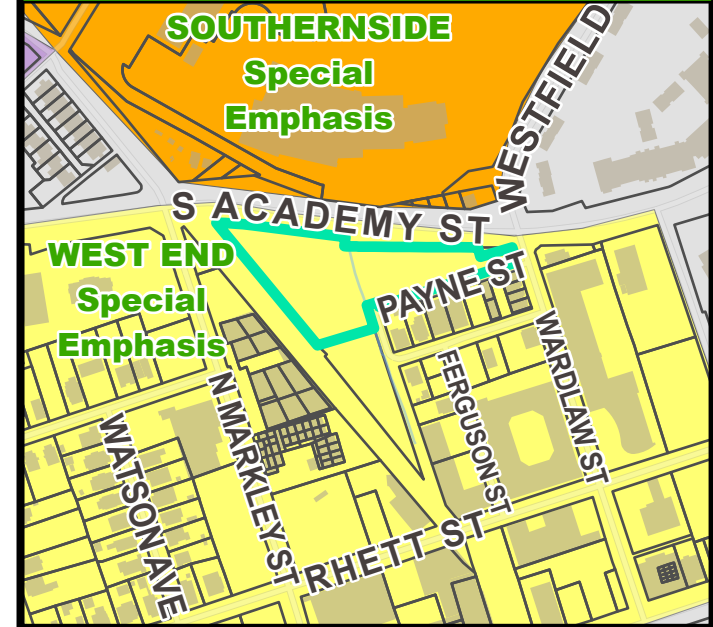
FUTURE LAND USE



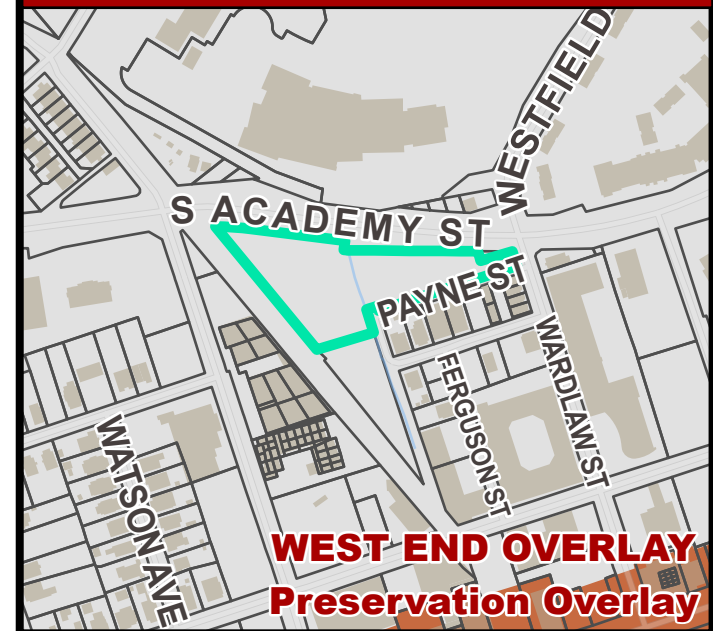
NATURAL / ENVIRONMENTAL FEATURES



SPECIAL EMPHASIS NEIGHBORHOODS



PRESERVATION OVERLAYS





MERRILL GARDENS AT GREENVILLE, SC

90 PAYNE STREET

MODIFICATION TO AN APPROVED PROJECT - DRB REVIEW
04 APRIL 2022

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URBAL ARCHITECTURE

1938 FAIRVIEW AVE E, #100
SEATTLE, WA 98102

ARCHITECT

PILLAR PROPERTIES

1938 FAIRVIEW AVE E, #300
SEATTLE, WA 98102

OWNER

SITE DESIGN INC

225 ROCKY CREEK ROAD
GREENVILLE, SC 29615

CIVIL ENGINEERS/
LANDSCAPE
ARCHITECT

PROJECT DATA

- Site Area: 94,735 s.f.
- Number of Stories Above Grade: 5
- Total Gross Floor Area: 149,309 s.f. (approx.)
- Number of Units: 137
- Number of Parking Spaces: 71

DRB AND STAFF APPROVALS

- CA 19-87 - 3/7/2019 DRB - Urban Panel
- CAS-19-87M - 11/17/2020 Staff Review
- CA 21-789 - 10/11/21 Pool update

MINOR MODIFICATION OVERVIEW:

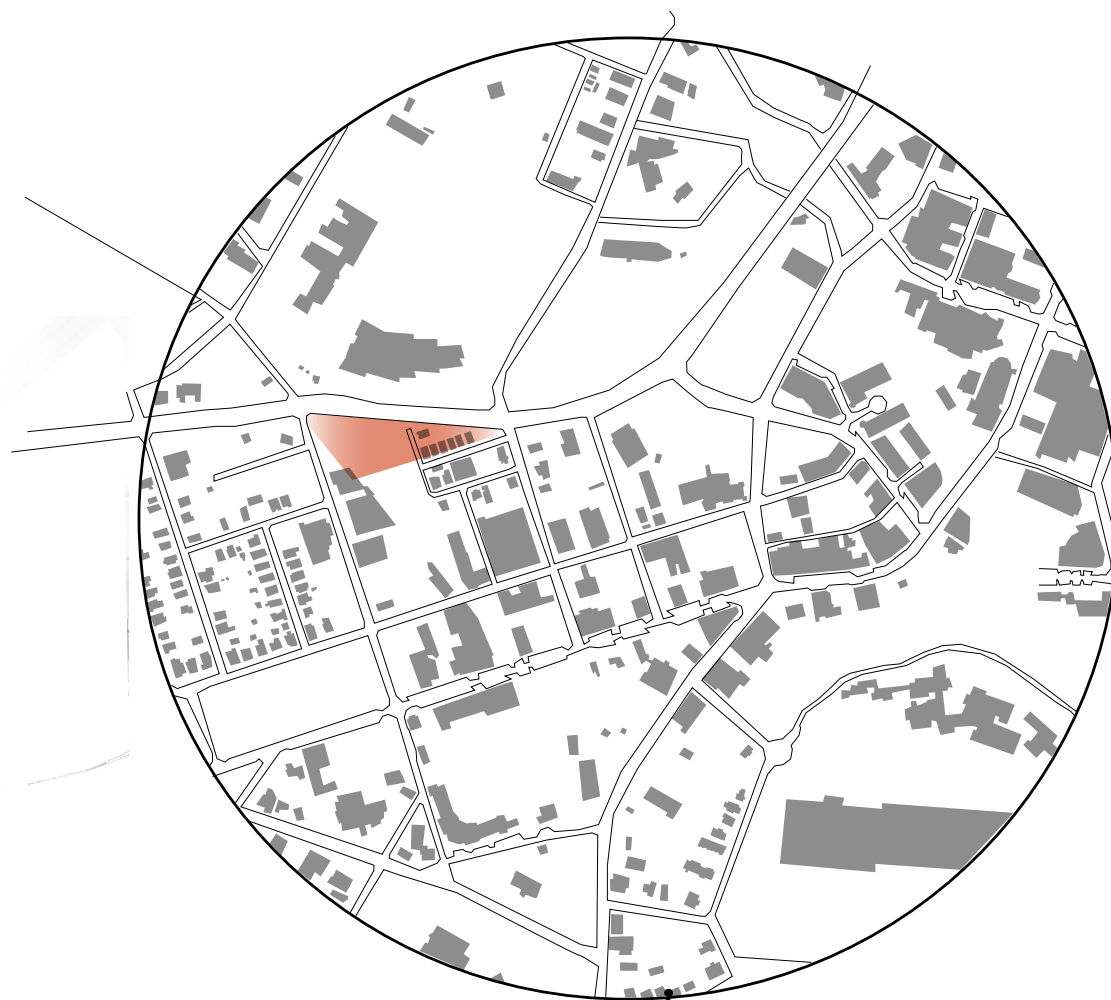
Merrill Gardens at Greenville sits at a prominent gateway along South Academy Street, the edge of the C-4 Central Business district. In accordance with the Greenville Downtown Design Guidelines this project seeks to implement the bold, progressive urban design strategy that has been part of its legacy for some time, as well as reinforce the design principles established.

The project was previously approved, with conditions under Certificate of Appropriateness #CA 19-87. Since approval, there have been several minor revisions to project design to accommodate easements present on site, resident safety, Duke Energy utility requirements, and budgetary needs.

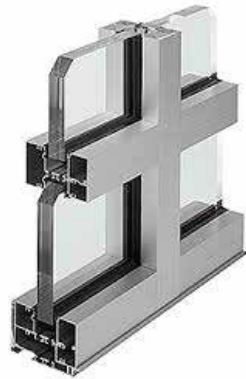
Through all proposed changes to the building, design in the context of the C-4 district and resident comfort maintains priority.

Listed briefly here, and shown throughout this packet, are the changes that will be shown as the new proposed design.

- Replace aluminum panel with similar color fiber cement paneling
- Adjustment of window layout in Activity Room for added column







**ALUMINUM STOREFRONT
W-1**
Anodized Aluminum



**VINYL WINDOW
W-2**
At residential units



**HUBBARDTON FORGE
LT-1**
Forged Vertical Bars
Ground Level Outdoor
Sconce



**WAC LIGHTING
LT-3**
Janus Outdoor Sconce
Unit Patios



**ALUMINUM
AL-1**
Anodized aluminum
Satin finish
Details

(REMOVED FROM SCOPE)



**STONE
S-1**
Cultured Stone
Cast-Fit
Parchment
11.625" x 23.625"



**BRICK
B-1**
Meridian Brick
Berkshire
Standard Size



**CONCRETE
C-1**
Decorative Concrete
Details



**TRANSFORMER
SCREENING
G-1**
Fence Screen
Artificial Greenery
Myrtle (or sim.)



**PAINT 1
PT-1**
Sherwin Williams
6028 - Pewter Green
At Fibercement Panels
& Trim on Bays



**PAINT 2
PT-2**
Sherwin Williams
7048 - Urbane Bronze
At Header Trim and
VTAC Grills



**PAINT 3
PT-3**
Sherwin Williams
7650 - Ellie Gray
Paneling at end of
corridors & trim

(PROPOSED)



**FIBERCEMENT PANELS
FC-1**
HARDIEPANEL or sim.
Smooth
Color Per Elevation



**FIBERCEMENT TRIM
FC-2**
HARDIETRIM BOARDS
or sim.
Color Per Elevation

BUILDING ELEVATIONS - PROPOSED



EAST ELEVATION - 1" = 20'

* Material call outs provided only where there is a proposed design change.

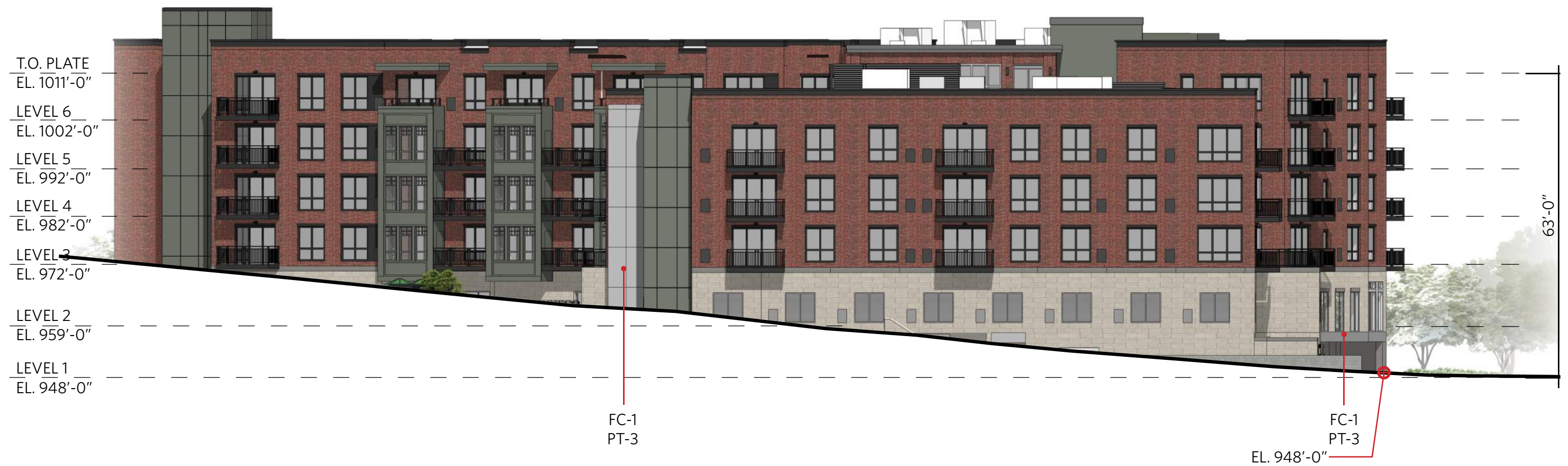
BUILDING ELEVATIONS - PROPOSED



NORTH ELEVATION - 1" = 20'

* Material call outs provided only where there is a proposed design change.

BUILDING ELEVATIONS - PROPOSED



SOUTH ELEVATION - 1" = 20'

* Material call outs provided only where there is a proposed design change.

BUILDING ELEVATIONS - PROPOSED



WEST ELEVATION - 1" = 20'

* Material call outs provided only where there is a proposed design change.



PRIMARY CHANGES:
▪ ALUMINUM TRIM TO FIBER CEMENT

AERIAL LOOKING WEST ALONG SOUTH ACADEMY ST. - PROPOSED



PRIMARY CHANGES:
• NONE IN THIS VIEW

LOOKING EAST ALONG SOUTH ACADEMY ST. - PROPOSED



- PRIMARY CHANGES:
- ALUMINUM TRIM TO FIBER CEMENT

VIEW FROM PARKING & PAYNE ST. TOWARDS MAIN ENTRANCE - PROPOSED



PRIMARY CHANGES:
▪ ALUMINUM PANEL TO FIBER CEMENT PANE;L

VIEW FROM MARKLEY STATION PARKING LOOKING EAST TOWARD COURTYARD - PROPOSED