

U-Rack Bike Rack, Black, 2-Bike, Flange Mount



Availability: Ships same day.

Item #: T9F442804MBK

Price: \$74.95

Product Information

U-RACK BIKE RACK Flange Mount

This bicycle storage rack holds up to 2 bikes in the upright position when used alone. Use more than one rack to store multiple bikes in one area. Great for any outdoor environment. Bike storage rack is made to last using 1-5/8" diameter x .098 thick tubular steel. Powder coat finish. Flange Mount allows floor anchoring in existing cement.





Accepts Cables and Bike Locks
(Not Included) for Secure
Bike Installation



Flange Mount Base Plates Allow Floor
Anchoring in Existing Cement



Accepts Up to 2 Bikes Alone or Can Be Used Side-by-Side to Store Multiple Bikes



Product Specifications

LENGTH INCHES	14-1/2
HEIGHT INCHES	34
CAPACITY	2 Bikes
COLOR FINISH	Black
ASSEMBLY	Unassembled
BRAND	Global Industrial™
CONSTRUCTION	12-Gauge Steel
MOUNT TYPE	Flange for Existing Cement
TUBE DIAMETER INCHES	1-5/8
TYPE	U-Bike Rack
WEIGHT LBS	12.2

Photo Gallery





Customer Reviews

Avg. Review Rating: 8 reviews

Reviewed On: March 23, 2018

Reviewed by: TIMOTHY (SOMERSET, KY)

Customer Rating:

U-Rack Bike Rack, Black

We used these items to hold up 4 x 4 panels of material for the purpose of containment and preventing falls. It serves the purpose as expected.

Reviewed On: March 23, 2018

Reviewed by: TIMOTHY (SOMERSET, KY)

Customer Rating:

U-Rack Bike Rack, Black.

These bike racks are used in our plant to contain panels and prevent a panel from falling over.

Reviewed On: March 23, 2018

Reviewed by: TIMOTHY (SOMERSET, KY)

Customer Rating:

U-Rack Bike Rack, Black

These Bike racks are used to contain panels of material and prevent one from falling.

Reviewed On: March 23, 2018

Reviewed by: TIMOTHY (SOMERSET, KY)

Customer Rating:

U-Rack Bike Rack, Black, 2-Bike, Flange Mount

This item has worked well for us as a way to contain individual panels and prevent them from falling. There are a couple dozen in use in our plant.

Reviewed On: April 03, 2015

Reviewed by: JESSICA (MIAMI, FL)

Customer Rating:

Work Great

This is exactly what we were for.

Reviewed On: March 26, 2015

Reviewed by: Nahid (LOS ANGELES, CA)

Customer Rating:

The Bike rack functions very well.

I am very happy with the quality, price and delivery time of the bike rack I purchased.

Reviewed On: July 02, 2012

Reviewed by: kezzy (Chicago)

Customer Rating:

Unaware It Is 3 Pieces

The flanges used to secure item into concrete are separate pieces from the u-frame. They have to be bolted to the frame with a torq security head (included in shipment). This weakens the security of the item and had I known there were three separate pieces I would not have purchased item. I am keeping it however and will weld the flanges to the u-frame myself. Reasonable price should have raised a flag for me. Oh well.

Reviewed On: September 20, 2011

Reviewed by: Wyosledman (Laramie, WY)

Customer Rating:

Bike rack

Installed U-bike rack at my office for customer use. Great bike rack. Fair price. Easy to install. Very fast turn around. Would definitely recommend as a simple solution.

General Sales

For product information or to place an order, please contact us at sales@globalindustrial.com, or 1-888-978-7759.

Customer Support

For assistance regarding an order already placed or received, please contact us at 1-888-628-3466 or service@globalindustrial.com. For information on an outstanding invoice, please email our Accounts Receivable Department at AR@globalindustrial.com.

Mail your remittances to:
Global Equipment Company
29833 Network Place
Chicago, IL 60673-1298

Web Site Assistance

If you need assistance with our site, from registration and ordering to shopping cart management and checkout, please contact our Web Support team at 1-888-381-2861 or service@globalindustrial.com.

Government & Education Sales

Global Industrial has dedicated significant resources to ensure that educational and governmental institutions have total access to our wide range of office and industrial equipment. You will find highly competitive prices at Global - designed to earn your business and meet your budget conscious needs.

For more information about Education Sales, please call 1-888-978-7759 or email educationsales@globalindustrial.com.

For more information about Government Sales, please call 1-800-806-5984 or email governmentsales@globalindustrial.com.

International Customers

Ordering is available to residents of the US, US territories and customers with APO/FPO addresses. For information or to place an order, please call 1-888-277-6995.

Mailing Addresses

You can contact us by mail at the following addresses:

Global Industrial
11 Harbor Park Drive
Port Washington, NY 11050

Global Industrial
2505 Mill Center Parkway
Suite 100
Buford, GA 30518-3700

Trifab™ VG (VersaGlaze™)

Trifab™ VG 450, 451 & 451T (Thermal) Framing Systems &
Trifab™ 451UT (Ultra Thermal) Framing System

Design + Performance Versatility with
Unmatched Fabrication Flexibility



Preston Pointe, Louisville, KY

Architect: Potter & Associates Architects PLLC, Louisville, KY

Glazing Contractor: Kentucky Mirror & Plate Glass Company, Louisville, KY

Trifab™ VersaGlaze™ is built on the proven and successful Trifab™ platform – with all the versatility its name implies. There are enough framing system choices, fabrication methods, design options and performance levels to please the most discerning building owner, architect and installer. The Trifab™ VersaGlaze™ family's newest addition, Trifab™ 451UT (Ultra Thermal) framing system, is designed for the most demanding thermal performance and employs a "dual" Isolock™ Thermal Break.

Aesthetics

Trifab™ VersaGlaze™ framing systems offer designers a choice of front-, center-, back- or multi-plane glass applications. Structural silicone glazing (SSG) and Weatherseal glazing options further expand the designers' choices, allowing for a greater range of design possibilities for specific project requirements and architectural styles. All systems have a 4-1/2" frame depth – Trifab™ VersaGlaze™ 450 has 1-3/4" sightlines, while Trifab™ VersaGlaze™ 451/451T and Trifab™ 451UT have 2" sightlines.

With seamless incorporation of Kawneer entrances or windows, including GLASSvent™ visually frameless ventilators, Trifab™ VersaGlaze™ can be used on almost any project. These framing systems can also be packaged with Kawneer curtain walls and overhead glazing, thereby providing a full range of proven, and tested, quality products for the owner, architect and installer from a single source supplier.

Economy

Trifab™ VersaGlaze™ 450/451/451T framing systems offer four fabrication choices to suit your project (Trifab™ 451UT available as screw spline fabrication only):

- **Screw Spline** – for economical continuous runs utilizing two piece vertical members that provide the option to pre-assemble units with controlled shop labor costs and smaller field crews for handling and installation.
- **Shear Block** – for punched openings or continuous runs using tubular moldings with shear block clips that provide tight joints for transporting large pre-assembled multi-lite units.
- **Stick** – for fast, easy field fabrication. Field measurements and material cuts can be done when metal is on the job.
- **Type B** – Same fabrication benefits as shear block except head and sill run through.

All systems can be flush glazed from either the inside or outside. The Weatherseal option provides an alternative to SSG vertical mullions for Trifab™ VersaGlaze™ 450/451/451T. This ABS/ASA rigid polymer



Brighton Landing, Cambridge, MA
Architects: ADD Inc., Cambridge, MA
Glazing Contractors: Ipswich Bay Glass Company, Inc., Rowley, MA

extrusion allows complete inside glazing and creates a flush glass appearance on the building exterior without the added labor of scaffolding or swing stages. Additionally, High-Performance (HP) Flashing options are engineered to eliminate perimeter sill fasteners and associated blind seals.

For the Finishing Touch

Architectural Class I anodized aluminum finishes are available in clear and Permanodic™ color choices.

Painted finishes, including fluoropolymer, that meet AAMA 2605 are offered in many standard choices and an unlimited number of specially designed colors.

Solvent-free powder coatings add the green element with high performance, durability and scratch resistance that meet the standards of AAMA 2604.

Performance

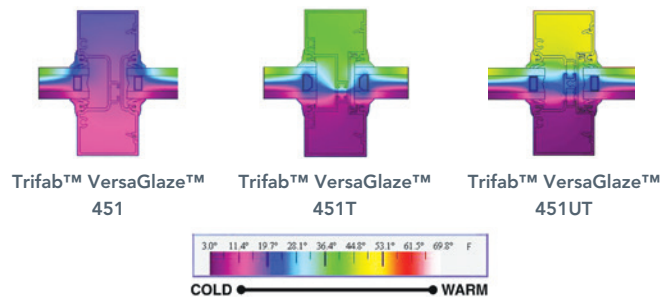
Kawneer's Isolock™ Thermal Break process creates a composite section, prevents dry shrinkage and is available on Trifab™ VersaGlaze™ 451T. For even greater thermal performance, a "dual" Isolock™ Thermal Break is used on Trifab™ 451UT.



Trifab™ 451UT uses a "dual" Isolock™ Thermal Break (right) and features a new HP (High Performance) sill design, which incorporates a screw-applied end dam (left), ensuring positive engagement and tight joints between the sill flashing and end dam.

U-factor, CRF values and STC ratings for Trifab™ VersaGlaze™ vary depending upon the glass plane application. Project specific U-factors can be determined for each individual project. (See the Kawneer Architectural Manual or Kawneer.com for additional information).

Thermal simulations showing temperature variations from exterior/cold side to interior/warm side.

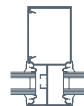


PERFORMANCE TEST STANDARDS

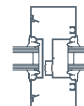
Air Infiltration	ASTM E 283
Water	AAMA 501, ASTM E 331
Structural	ASTM E 330
Thermal	AAMA 1503
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Acoustical	AAMA 1801, ASTM E 1425

Trifab™ VersaGlaze™ 450/451/451T glazing options

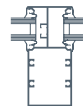
(note: Trifab™ 451UT available as center set glass plane only).



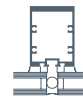
Front



Center



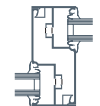
Back



SSG



Weatherseal



Multi-Plane

Kawneer Company, Inc.
Technology Park / Atlanta
555 Guthridge Court
Norcross, GA 30092

kawneer.com
770 . 449 . 5555

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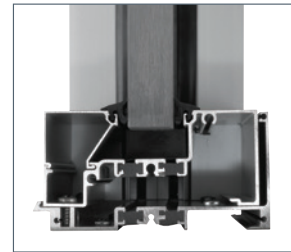
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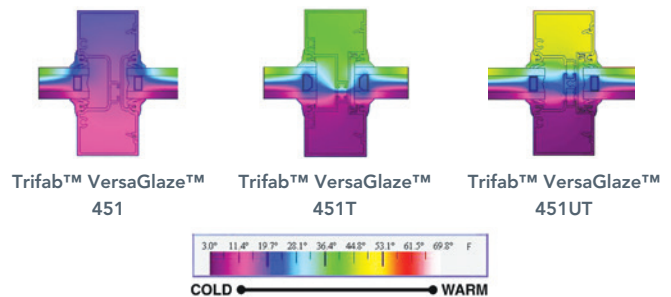
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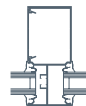


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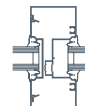
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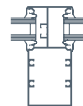
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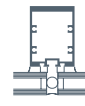
Front



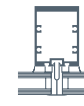
Center



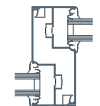
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SECTION 08410 ALUMINUM ENTRANCES AND STOREFRONTS

This suggested guide specification has been developed using the current edition of the Construction Specifications Institute (CSI) "Manual of Practice," including the recommendations for the CSI 3 Part Section Format and the CSI Page Format. Additionally, the development concept and organizational arrangement of the American Institute of Architects (AIA) MASTERSPEC Program have been recognized in the preparation of this guide specification. Neither CSI nor AIA endorse specific manufacturers and products. The preparation of the guide specification assumes the use of standard contract documents and forms, including the "Conditions of the Contract," published by the AIA.

PART 1 - GENERAL

1.01 Summary

- A. Section Includes: Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.
 1. Types of Kawneer Aluminum Storefront Systems include:
 - a. Trifab® VG 451 Framing System – 2" x 4-1/2" nominal dimension; Non-Thermal; Front, Center, Back, Multi-Plane, Structural Silicone or Weatherseal Glazed (Type B); Screw Spline, Shear Block, Stick or Punched Opening Fabrication.
 - b. Trifab® VG 451T Framing System – 2" x 4-1/2" nominal dimension; Thermal; Front, Center, Back, Multi-Plane, Structural Silicone or Weatherseal Glazed (Type B); Screw Spline, Shear Block, Stick or Punched Opening Fabrication.
- B. Related Sections:
 1. Division 7 Section "Vapor Barriers" between glazed wall systems and adjacent construction
 2. Division 7 Section "Fire Stopping"
 3. Division 7 Section "Joint Sealants" for joint sealants installed as part of aluminum entrance and storefront systems
 4. Division 8 Section "Aluminum Terrace Doors and Frames"
 5. Division 8 Section "Sliding Doors"
 6. Division 8 Section "Aluminum Entrances and Storefronts"
 7. Division 8 Section "Automatic Entrance Doors"
 8. Division 8 Section "Sliding Aluminum Storefronts"
 9. Division 8 Section "Aluminum Windows"
 10. Division 8 Section "Finish Hardware"
 11. Division 8 Section "Glass and Glazing"
 12. Division 8 Section "Glazed Aluminum Curtain Walls"
 13. Division 8 Section "Slope Glazing"

1.02 References (Industry Standards)

1.03 System Description

- A. Storefront System Performance Requirements:
 1. Wind loads: Provide framing system; include anchorage, capable of withstanding wind load design pressures of (____) lbs./sq. ft. inward and (____) lbs./sq. ft. outward. The design pressures are based on the (____) Building Code; (____) Edition.
 2. Air Infiltration: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft² at a static air pressure differential of 6.24 psf.
 3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.
 4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.
 5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall not be more than:
 - a. Glass to Exterior – 0.47 (low-e) or 0.61 (clear) or Project Specific (____) BTU/hr/ft²/°F.
 - b. Glass to Center – 0.44 (low-e) or 0.61 (clear) or Project Specific (____) BTU/hr/ft²/°F.
 - c. Glass to Interior – 0.41 (low-e) or 0.56 (clear) or Project Specific (____) BTU/hr/ft²/°F.
 6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:
 - a. Glass to Exterior – 70_{frame} and 69_{glass} (low-e) or 69_{frame} and 58_{glass} (clear).
 - b. Glass to Center – 62_{frame} and 68_{glass} (low-e) or 63_{frame} and 56_{glass} (clear).
 - c. Glass to Interior – 56_{frame} and 67_{glass} (low-e) or 54_{frame} and 58_{glass} (clear).
 7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:
 - a. Glass to Exterior – 38 (STC) and 31 (OITC)
 - b. Glass to Center – 37 (STC) and 30 (OITC)
 - c. Glass to Interior – 38 (STC) and 30 (OITC)

1.04 Submittals

- A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."
- B. Quality Assurance/Control Submittals:
 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics.

1.05 Warranty



- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
 - B. Manufacturer's Product Warranty: Submit, for Owner's acceptance, manufacturer's warranty for entrance system as follows:
 - 1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by Kawneer. In addition, welded door corner construction shall be supported with a limited lifetime warranty for the life of the door under normal use.
- 1.06 Quality Assurance
- A. Qualifications:
 - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project and who is acceptable to product manufacturer.
 - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction, approving acceptable installer and approving application method.
 - B. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.
- 1.07 Delivery, Storage, and Handling
- A. Ordering: Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
 - B. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
 - C. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle framing material and components to avoid damage. Protect framing material against damage from elements, construction activities, and other hazards before, during and after framing installation.

PART 2 - PRODUCTS

2.01 Manufacturers (Acceptable Manufacturers/Products)

- A. Acceptable Manufacturers: Kawneer Company, Inc.
 - 1. Address: Kawneer Company, Inc. or Kawneer Company Canada Limited
 555 Guthridge Court, 1051 Ellesmere Road
 Technology Park/Atlanta, Scarborough, Ontario M1P 2X1
 Norcross, GA 30092
 Telephone: 770 449 5555 416 755 7751
 Fax: 770 734 1560 416 755 1829
 - 2. Proprietary Product(s)/System(s): Kawneer Aluminum Storefront Systems.
 - a. Kawneer Aluminum Storefront System
 - b. Series: Trifab® VG 451 (non-thermal) or Trifab® VG 451T (thermal) Framing System
 - c. Framing Member Profile: 2" x 4-1/2" nominal dimension; Front, Center, Back, Multi-Plane, Structural Silicone or Weatherseal Glazed (Type B); Screw Spline, Shear Block, Stick or Punched Opening Fabrication.
 - d. Finish/Color: (See 2.06 Finishes)
- B. Alternate (Manufacturers/Products): In lieu of providing below specified base bid/contract manufacturer, provide below specified alternate manufacturers. Refer to Division 1 Alternates Section.
 - 1. Base Bid/Contract Manufacturer/Product: Kawneer Company, Inc.
 - a. Kawneer Aluminum Storefront System
 - b. Series: Trifab® VG 451 or Trifab® VG 451T Framing System
 - c. Framing Member Profile: 2" x 4-1/2" nominal dimension; Non-Thermal; Front, Center, Back, Multi-Plane, Structural Silicone or Weatherseal Glazed (Type B); Screw Spline, Shear Block, Stick or Punched Opening Fabrication.
 - 2. Alternate # ____ Manufacturer/Product:
 - a. Product:
 - b. Series:
 - c. Product Attributes:
 - 1.) Framing Member Profile:
 - 3. Alternate # ____ Manufacturer/Product:
 - a. Product:
 - b. Series:
 - c. Product Attributes:
 - 1.) Framing Member Profile:
- C. Substitutions:
 - 1. General: Refer to Division 1 Substitutions for procedures and submission requirements.
 - a. Pre-Contract (Bidding Period) Substitutions: Submit written requests ten (10) days prior to bid date.
 - b. Post-Contract (Construction Period) Substitutions: Submit written request in order to avoid storefront installation and construction delays.
 - 2. Substitution Documentation
 - a. Product Literature and Drawings: Submit product literature and drawings modified to suit specific project requirements and job conditions.
 - b. Certificates: Submit certificate(s) certifying substitute manufacturer (1) attesting to adherence to specification requirements for entrance system performance criteria, and (2) has been engaged in the design, manufacturer and fabrication of aluminum entrances for a period of not less than ten (10) years. (Company Name)
 - c. Test Reports: Submit test reports verifying compliance with each test requirement required by the project.
 - d. Samples: Provide samples of typical product sections and finish samples in manufacturer's standard sizes.

3. Substitution Acceptance: Acceptance will be in written form, either as an addendum or modification, and documented by a formal change order signed by the Owner and Contractor.

2.02 Materials

A. Aluminum (Framing and Components):

1. Material Standard: ASTM B 221; 6063-T6 alloy and temper
2. Member Wall Thickness: Each framing member shall provide structural strength to meet specified performance requirements.
3. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of storefront members are nominal and in compliance with AA Aluminum Standards and Data.

2.03 Accessories

- A. Fasteners: Where exposed, shall be Stainless Steel.
- B. Gaskets: Glazing gaskets shall be extruded EPDM rubber.
- C. Perimeter Anchors: Aluminum. When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.
- D. Thermal Barrier (Trifab® VG 451T):
 1. Kawneer IsoLock® Thermal Break with a 1/4" separation consisting of a two part chemically curing, high density polyurethane which is mechanically and adhesively joined to aluminum storefront sections.
 - a. Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.

2.04 Related Materials

- A. Sealants: Refer to Joint Treatment (Sealants) Section.
- B. Glass: Refer to Glass and Glazing Section.

2.05 Fabrication

A. General:

1. Fabricate components per manufacturer's installation instructions and with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
2. Accurately fit and secure joints and corners. Make joints flush, hairline and weatherproof.
3. Prepare components to receive anchor devices. Fabricate anchors.
4. Arrange fasteners and attachments to conceal from view.

2.06 Finishes

A. Factory Finishing:

1. Kawneer Permanodic® AA-M12C22A44, AAMA 611, Architectural Class I Color Anodic Coating (Color _____).
2. Kawneer Permanodic® AA-M12C22A41, AAMA 611, Architectural Class I Clear Anodic Coating (Color #14 Clear) (Optional).
3. Kawneer Permanodic® AA-M12C22A31, AAMA 611, Architectural Class II Clear Anodic Coating (Color #17 Clear) (Standard).
4. Fluoropon® (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color _____).
5. Kawneer Permadiize® (50% PVDF), AAMA 2604, Fluoropolymer Coating (Color _____).
6. Interpon® D2000, AAMA 2604, Powder Coating (Color _____).
7. Other: Manufacturer _____ Type _____ (Color _____).

2.07 Source Quality Control

- A. Source Quality: Provide aluminum framing specified herein from a single source.
 1. Building Enclosure System: When aluminum framing is part of a building enclosure system, including entrances, entrance hardware, windows, curtain wall system and related products, provide building enclosure system products from a single source manufacturer.
- B. Fabrication Tolerances: Fabricate aluminum framing in accordance with framing manufacturer's prescribed tolerances.

PART 3 - EXECUTION

3.01 Examination

- A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions. Verify openings are sized to receive storefront system and sill plate is level in accordance with manufacturer's acceptable tolerances.
 1. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

3.02 Installation

- A. General: Install framing system in accordance with manufacturer's instructions and AAMA storefront and entrance guide specifications manual.
 1. Dissimilar Materials: Provide separation of aluminum materials from sources of corrosion or electrolytic action contact points.
 2. Weathertight Construction: Install sill members and other members in a bed of sealant or with joint filler or gaskets, to provide weathertight construction. Coordinate installation with wall flashings and other components of construction.
 3. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
 4. Provide alignment attachments and shims to permanently fasten system to building structure.
 5. Align assembly plumb and level, free of warp and twist. Maintain assembly dimensional tolerances aligning with adjacent work.
- B. Related Products Installation Requirements:
 1. Sealants (Perimeter): Refer to Section 7 Joint Treatment (Sealants).
 2. Glass: Refer to Section 8 Glass and Glazing.
 - a. Reference: ANSI Z97.1, CPSC 16 CFR 1201 and GANA Glazing Manual.

3.03 Field Quality Control

- A. Field Tests: Architect shall select storefront units to be tested as soon as a representative portion of the project has been installed, glazed, perimeter caulked and cured. Conduct tests for air infiltration and water penetration with manufacturer's representative present. Tests not meeting specified performance requirements and units having deficiencies shall be corrected as part of the contract amount.

1. Testing: Testing shall be performed by a qualified independent testing agency. Refer to Division 1 Testing Section for payment of testing and testing requirements. Testing Standard per AAMA 503, including reference to ASTM E 783 for Air Infiltration Test and ASTM E 1105 Water Infiltration Test.
 - a. Air Infiltration Tests: Conduct tests in accordance with ASTM E 783. Allowable air infiltration shall not exceed 1.5 times the amount indicated in the performance requirements or 0.09 cfm/ft², which ever is greater.
 - b. Water Infiltration Tests: Conduct tests in accordance with ASTM E 1105. No uncontrolled water leakage is permitted when tested at a static test pressure of two-thirds the specified water penetration pressure but not less than 6.24 psf.
 - B. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.
- 3.04 Protection and Cleaning
- A. Protection: Protect installed product's finish surfaces from damage during construction. Protect aluminum storefront system from damage from grinding and polishing compounds, plaster, lime, acid, cement, or other harmful contaminants.
 - B. Cleaning: Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

DISCLAIMER STATEMENT

This guide specification is intended to be used by a qualified construction specifier. The guide specification is not intended to be verbatim as project specification without appropriate modifications for the specific use intended. The guide specification must be used and coordinated with the procedures of each design firm, and the particular requirements of a specific construction project.

END OF SECTION 08410

Fluoropon® is a registered trademark of The Valspar Corporation.
Interpon® is a registered trademark of Akzo Nobel Coatings, Inc.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
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A World of Difference.

Global Preassembled Door Systems for Commercial and Metal Buildings

The Global preassembled door system is completely assembled including all hardware components and subframe system (framed opening). This means the installer is no longer faced with the common problems often associated with the installation of walk doors such as damaged or lost parts, quality of components, difficult hardware installation, and lengthy installation time. Global doors are designed with top quality components and are assembled in our factory-controlled environment. You always get the right door for the right job, ready for immediate installation.

- *Painted finish coat*
- *18-gauge, insulated door leaf*
- *Installation time in less than 30 minutes*
- *Custom-made doors to exact job specifications and special installation conditions*
- *No cutting, welding, or painting at the job site*
- *Longer warranties on hardware components*
- *Unparalleled customer service*
- *National distribution capabilities*
- *Full range of options and accessories*



Global 
building products

1121 Herman Street • Elkhart, IN 46516
Phone: 574-296-6868 • Fax: 574-296-6878
Web: www.globalbuildingproducts.us

The Global Difference

Global Building Products is committed to excellence in the products and services we offer. Each door and frame component has been carefully selected and designed to meet our high standards of quality.

Important Elements of Our Door System

- 16-gauge reinforcement top and bottom channels
- 12-gauge frame header-to-jamb connection plate for added strength
- All galvanealed door & frame metal components
- Heavier lock and closer reinforcements

Door Options and Hardware Accessories

Global understands the importance of offering options and choices to builders in an ever changing and demanding market.

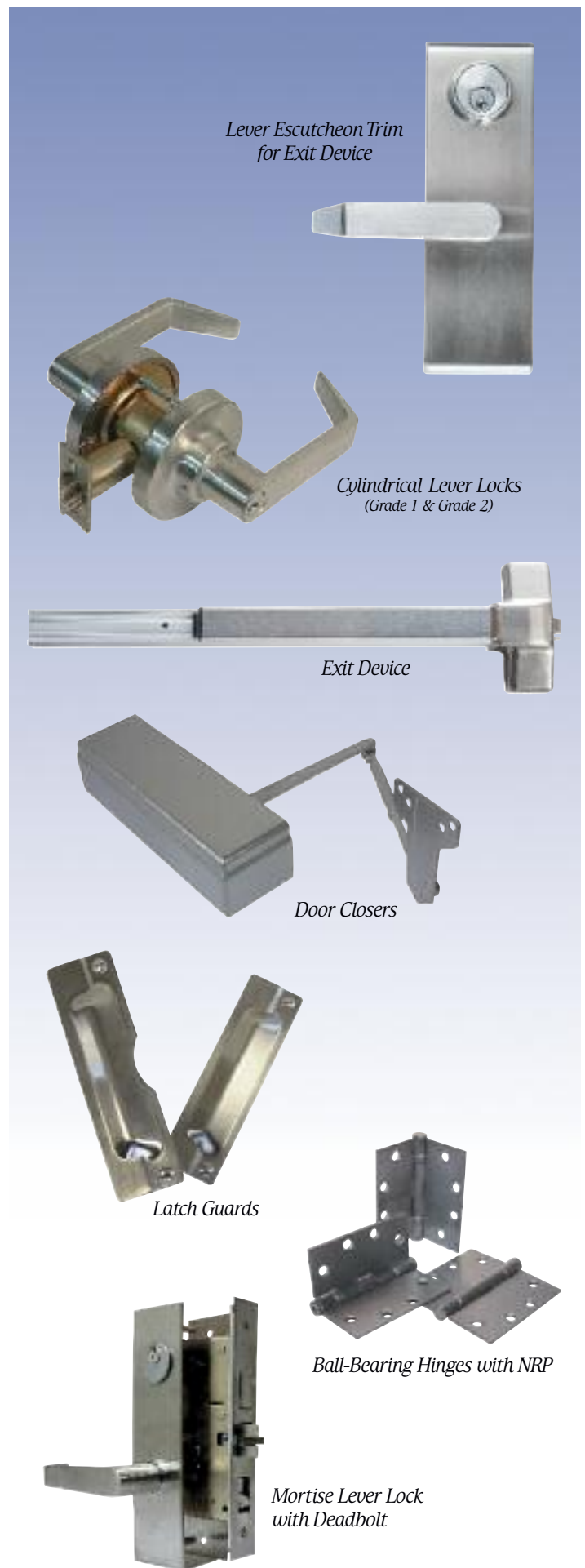
- Door sizes, colors, and door gauges
- Locksets - Cylindrical and Mortise
- Door closers
- Exit devices with lever trim
- Ball-bearing hinges with NRP
- Door lite kits with glass options
- Latch guards and kick-plates
- Additional options available

12 Gauge
Mounting Bracket

16 Gauge
Galvanealed
Subframe



Assorted Door Lite Kit Sizes
(glass included)



Lever Escutcheon Trim
for Exit Device

Cylindrical Lever Locks
(Grade 1 & Grade 2)

Exit Device

Door Closers

Latch Guards

Ball-Bearing Hinges with NRP

Mortise Lever Lock
with Deadbolt

Solid Core 520P / 530P Particleboard core (PC) 3, 5 & 7-Ply

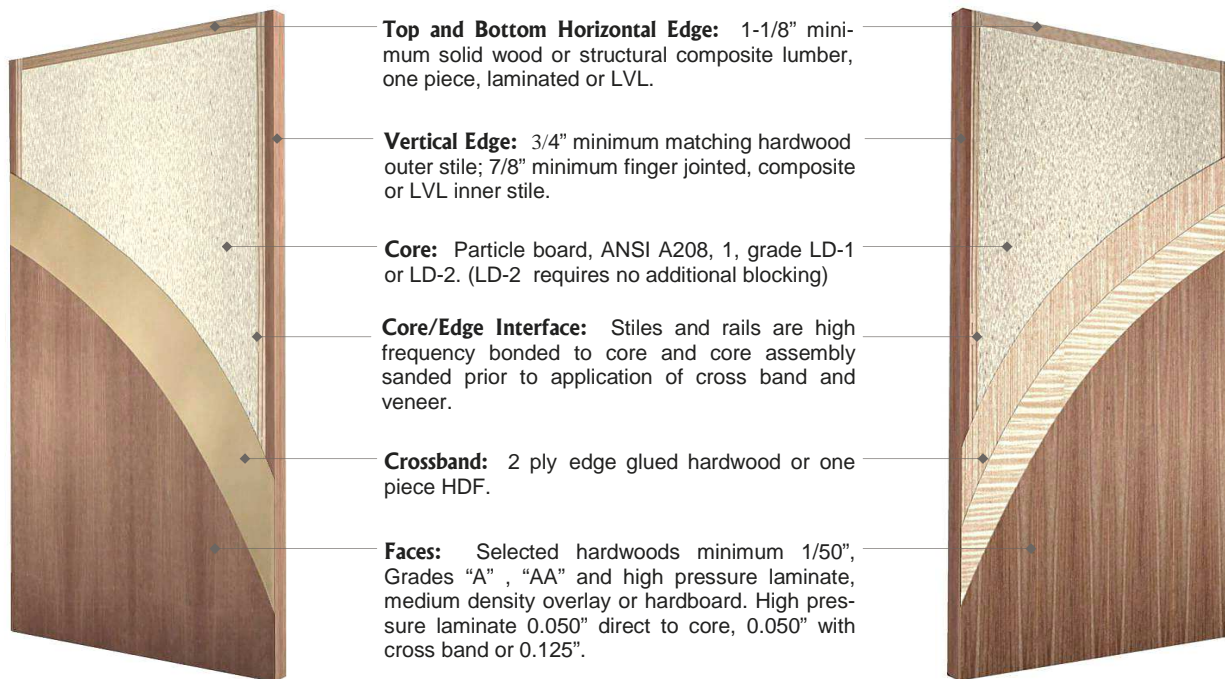
Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

WDMA: PC-5 / PC-HPDL 3 or 5 - Bonded core
 AWS: PC-5 / PC-HPDL 3 or 5 - Bonded core

WDMA: PC-7 - Bonded core
 AWS: PC-7 - Bonded core

Unless specified otherwise all doors are constructed to Extra Heavy Duty performance levels.

Door sizes: (Non rated) 1-3/8" - 2-1/4" thick, up to 6' wide x 12' high (Check with sales for taller doors).



Warranty: Lifetime for interior use / one year limited exterior, fully type 1 wood or MDO faces only. See Vancouver Door Warranty.

Blocking Options: For undercutting and specialized hardware. Must be specified if required. See "Blocking Adds" PDF page.

Available rating options for 520P

Fire Ratings



- 20 Minute: Neutral Pressure (NP) or Positive Pressure (PP) - Cat "A" or "B" and intumescent free. Smoke & Draft control label.
- Max Sizes:

	NP	PP
Singles:	4' x 10'	4' x 9'
Std Pairs:	8' x 10'	8' x 9'
Dbl Egress:	8' x 10'	8' x 9'
- Transoms—Up to 4' x 3'4"
- Vision lites (louvers not allowed)
- Applied moldings, Quirks & Inlays.

See the "20 Minute" rating matrix and specifications sheet for hardware, frame and other information on ratings.

STC Ratings



- Standard construction = STC-28 to STC-32.
- Lites - Recommended glazing systems must be used to obtain the maximum STC rating.
- Pairs or doors with transoms may require additional sealing / gasketing systems.
- "U" value = 0.46 (unglazed). Glazed doors vary based on glazing type. See "Default U factors for doors" matrix.

See the STC Transmission Information page.

LEED credits

- MR 4.1 - Recycled Content: 10%
- MR 4.2 - Recycled Content: 20%
- EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
- Low VOC's on all finishes.
- All products conform to "CARB" Phase II requirements.

See our "LEED" Matrix for additional information.

Available construction options for 520P

- Dutch Door (various shelf types available) See "Dutch shelf options".
- Wicket Door (Shelf upon request)
- Pairs, Set matches & Bifolds.
- Over-size doors & Splined sets.
- Full or Half louver - Non rated.
- Vision Lites - Various shapes & sizes. Glazed or unglazed.
- Arc or radius top to match jamb.

Sized, beveled & machined for just about any specified surface, concealed or electrified hardware and Prefinished.

MODEL C-24

SECTIONAL STEEL DOORS



STRONG, VISUALLY APPEALING DOORS FOR MODERATE TO HEAVY-DUTY COMMERCIAL APPLICATIONS

Wayne Dalton's C-24 sectional steel doors are available in a wide variety of sizes and configurations. The design provides high strength at an excellent value.

Featuring 24-gauge ribbed steel sections and 20-gauge center and end stiles, Model C-24 is available with a number of lite and insulation options.

» 24-GAUGE STEEL
CONSTRUCTION

» PROVEN STRENGTH
AND DURABILITY

» STANDARD SIZES UP TO
30'2" WIDE AND 22'1" HIGH

MODEL C-24

STANDARD FEATURES OVERVIEW

THERMAL EFFICIENCY

R-VALUE*	7.6 (with optional insulation)
U-VALUE*	0.13 (with optional insulation)

CONSTRUCTION

MAX HEIGHT	22'1"
MAX WIDTH	30'2"
SECTION THICKNESS	2"
EXTERIOR STEEL	24-gauge
EXTERIOR SURFACE	Smooth, Ribbed
STANDARD SPRINGS	10,000 cycles
JOINT PROFILE	Tongue-and-groove

WARRANTY

TERMS	One (1) year limited
-------	----------------------

OPTIONS

- Chain hoist operation
- Motor operation
- High cycle spring (25k, 50k, 100k)
- 3" Track option
- Solid shafts
- Perimeter weatherseal
- Polystyrene insulation
- Broken cable devices
- Sensing edges
- Photo eyes
- Special track designs
- Mullions
- Simple Install System

*Wayne Dalton uses a calculated door section R-value and U-value for our insulated doors.

Every component and feature on the Model C-24 Sectional Steel Door is designed, engineered, and constructed to enhance the building's architectural beauty.

Model C-24 is available in a wide variety of sizes and configurations. The design provides high strength at an excellent value.

MATERIALS AND CONSTRUCTION

Unique 2" x 3" box-stile design, plus tongue-and-groove construction, adds vertical stability and strength. Stiles are continuously-bonded to the skin surface with high-strength adhesive, resulting in the strongest possible unit. The surface is ribbed for even more strength.

Wayne Dalton's C-24 sectional steel doors feature pre-finished 24-gauge hot-dipped galvanized sections roll-formed to a full 2" thickness for ultimate strength and durability. Fully-fitted 3" wide boxed stiles are adhered with adhesive, preventing rust and leakage associated with rivets. Standard bottom door seal along with optional seals on the perimeter and between sections greatly reduce air leakage, adding to the thermal efficiency of the building.

Additional options include insulation and weather stripping that provides an R-value of 7.6 and a U-value of 0.13; factory-installed vision lites or full-view sections; electric operator; and special engineering to meet wind load requirements.

Contact Wayne Dalton for additional sizes and colors.

Note: Portland plant offers a white smooth finish only. Contact your customer service representative for availability to your location.

Wind load options available



SECTIONAL STEEL DOOR



LITE OPTIONS

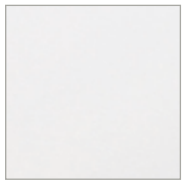


Vision lites

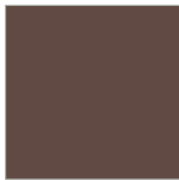


Full-view lites

FINISH OPTIONS



White



Brown

GENERAL OPERATING CLEARANCES

TYPE	HEADROOM		SIDEROOM		DEPTH INTO ROOM	CENTER LINE OF SPRINGS	
	2" TRACK	3" TRACK	2" TRACK	3" TRACK	2" AND 3" TRACK	2" TRACK	3" TRACK
Standard Lift Manual 12" R	13"-17"	NA	4.5"	5.5"	Opening Height +18"	Opening Height +12"	N/A
Standard Lift Manual 15" R	15"-20"	16"-21"				Opening Height +13"	Opening Height +14"
Standard Lift Motor Oper. 12" R	15"-20"	NA			Opening Height +66"	Opening Height +12"	N/A
Standard Lift Motor Oper. 15" R	15"-20"	18"-24"				Opening Height +13"	Opening Height +14"
High Lift Manual	High Lift +12"		24" One Side		Opening Height -Lift +30"	Opening Height +Lift +6.5"	Opening Height +Lift +7.5"
High Lift Motor Oper.							
Vertical Lift Manual	Door Height +20"		4.5"	5.5"	18"	Double Door Height +13"	
Vertical Lift Motor Oper.			24" One Side				
Low Headroom Manual	6"-15"	6"-15"	6"	9"	Opening Height +20" to-26"	N/A	
Low Headroom Motor Oper.	9"-17"	9"-17"			Opening Height +66"		

NOTES:

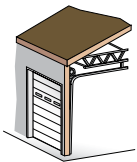
1. For low headroom, springs must be rear mount to achieve minimum headroom listed. Front mount torsion headroom depends on drum size, and varies over the range listed. See approval drawing.
2. Side-room of 8" required, one side, for doors with chain hoist.
3. Headroom depends on drum size, and varies over the range listed. See approval drawing.

PANEL/SECTION SELECTION GUIDE

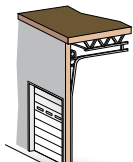
DOOR WIDTH	NUMBER OF PANELS	NUMBER OF LITES	DOOR HEIGHT	NUMBER OF SECTIONS
Up to 8'3"	2	2	Up to 8'1"	4
8'4" to 12'3"	3	3	8'4" to 10'1"	5
12'4" to 16'3"	4	4	10'2" to 12'1"	6
16'4" to 20'3"	5	5	12'4" to 14'1"	7
20'4" to 23'7"	6	6	14'4" to 16'1"	8
23'8" and 27'6"	7	7	16'4" to 18'1"	9
27'7" to 30'2"	8	8	18'4" to 20'1"	10

For larger sizes, see C20

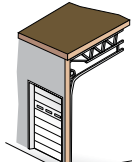
TRACK SELECTION GUIDE



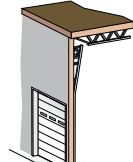
STANDARD LIFT



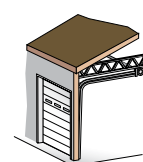
HIGH LIFT
break-away is standard, straight incline is available



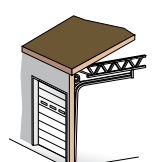
ROOF PITCH
standard or high lift



VERTICAL LIFT
break-away is standard, straight incline is available



LOW HEADROOM
rear mount torsion



LOW HEADROOM
front mount torsion



Architect Resource Center

Visit wayne-dalton.com/architect-resource-center to find our Architect Resource Center. In this tool, you will quickly find all of the specifications, drawings and documents you need to complete your project.

Wayne Dalton
COMMERCIAL DOORS

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Lewisville, TX 75067

wayne-dalton.com



MODEL C-24

SECTIONAL STEEL DOORS



STRONG, VISUALLY APPEALING DOORS FOR MODERATE TO HEAVY-DUTY COMMERCIAL APPLICATIONS

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Featuring 24-gauge ribbed steel sections and 20-gauge center and end stiles, Model C-24 is available with a number of lite and insulation options.

» 24-GAUGE STEEL
CONSTRUCTION

» PROVEN STRENGTH
AND DURABILITY

» STANDARD SIZES UP TO
30'2" WIDE AND 22'1" HIGH

MODEL C-24

STANDARD FEATURES OVERVIEW

THERMAL EFFICIENCY

R-VALUE*	7.6 (with optional insulation)
U-VALUE*	0.13 (with optional insulation)

CONSTRUCTION

MAX HEIGHT	22'1"
MAX WIDTH	30'2"
SECTION THICKNESS	2"
EXTERIOR STEEL	24-gauge
EXTERIOR SURFACE	Smooth, Ribbed
STANDARD SPRINGS	10,000 cycles
JOINT PROFILE	Tongue-and-groove

WARRANTY

TERMS	One (1) year limited
-------	----------------------

OPTIONS

- Chain hoist operation
- Motor operation
- High cycle spring (25k, 50k, 100k)
- 3" Track option
- Solid shafts
- Perimeter weatherseal
- Polystyrene insulation
- Broken cable devices
- Sensing edges
- Photo eyes
- Special track designs
- Mullions
- Simple Install System

*Wayne Dalton uses a calculated door section R-value and U-value for our insulated doors.

Every component and feature on the Model C-24 Sectional Steel Door is designed, engineered, and constructed to enhance the building's architectural beauty.

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Unique 2" x 3" box-stile design, plus tongue-and-groove construction, adds vertical stability and strength. Stiles are continuously-bonded to the skin surface with high-strength adhesive, resulting in the strongest possible unit. The surface is ribbed for even more strength.

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Additional options include insulation and weather stripping that provides an R-value of 7.6 and a U-value of 0.13; factory-installed vision lites or full-view sections; electric operator; and special engineering to meet wind load requirements.

Contact Wayne Dalton for additional sizes and colors.

Note: Portland plant offers a white smooth finish only. Contact your customer service representative for availability to your location.

Wind load options available



SECTIONAL STEEL DOOR



LITE OPTIONS

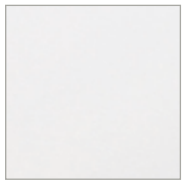


Vision lites

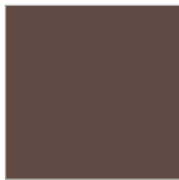


Full-view lites

FINISH OPTIONS



White



Brown

GENERAL OPERATING CLEARANCES

TYPE	HEADROOM		SIDEROOM		DEPTH INTO ROOM	CENTER LINE OF SPRINGS	
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Standard Lift Manual 15" R	15"-20"	16"-21"				Opening Height +13"	Opening Height +14"
Standard Lift Motor Oper. 12" R	15"-20"	NA			Opening Height +66"	Opening Height +12"	N/A
Standard Lift Motor Oper. 15" R	15"-20"	18"-24"				Opening Height +13"	Opening Height +14"
High Lift Manual	High Lift +12"		24" One Side		Opening Height -Lift +30"	Opening Height +Lift +6.5"	Opening Height +Lift +7.5"
High Lift Motor Oper.							
Vertical Lift Manual	Door Height +20"		4.5"	5.5"	18"	Double Door Height +13"	
Vertical Lift Motor Oper.			24" One Side				
Low Headroom Manual	6"-15"	6"-15"	6"	9"	Opening Height +20" to-26"	N/A	
Low Headroom Motor Oper.	9"-17"	9"-17"			Opening Height +66"		

NOTES:

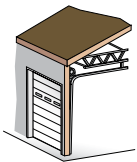
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12'4" to 16'3"	4	4	10'2" to 12'1"	6
16'4" to 20'3"	5	5	12'4" to 14'1"	7
20'4" to 23'7"	6	6	14'4" to 16'1"	8
23'8" and 27'6"	7	7	16'4" to 18'1"	9
27'7" to 30'2"	8	8	18'4" to 20'1"	10

For larger sizes, see C20

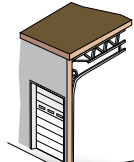
TRACK SELECTION GUIDE



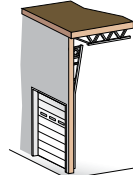
STANDARD LIFT



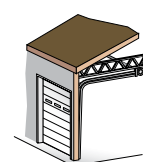
HIGH LIFT
break-away is standard, straight incline is available



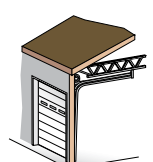
ROOF PITCH
standard or high lift



VERTICAL LIFT
break-away is standard, straight incline is available



LOW HEADROOM
rear mount torsion



LOW HEADROOM
front mount torsion



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wayne-dalton.com



LED Adjustable Architectural Slim Wall Packs

SPEC SHEET



Adjustable LED Slim Wall Packs Delivering Full Cutoff or Semi Cutoff Light Distribution

The innovative pivoting head design aims the light precisely and adjusts up to 20 degrees for forward throw illumination. Suitable for up to 25 foot mounting for applications including pathways, perimeter lighting and building entryways. Available in 30W, 40W (small), and 70W, 90W (large) with CCT of 5000K and DLC qualified.

FEATURES

- Architectural low profile design
- Dark sky compliant
- Bronze finish
- Includes photocell for 120-277V operation
- Min start temperature: -40°C
- Heat & impact resistant polycarbonate lens
- 5 year limited warranty

APPLICATIONS

- Condos/Apartments
- Hotels
- Schools
- Security Lighting
- Exterior Walls



Job Name/Title: _____ Catalog Number _____
 Contractor: _____ Notes: _____

LED Adjustable Architectural Slim Wall Packs

SPEC SHEET

GENERAL SPECIFICATIONS

Voltage: 120-277V, 60Hz
Average Rated Life: 50,000 (L70)
CRI: 70
CCT: 5000K
Ambient temp: -40°F to 105°F
Power Factor: >.90
THD: <.15%



30W & 40W

Adjustable

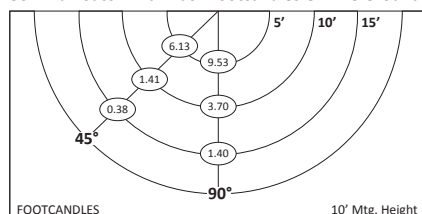


70W & 90W

Adjustable

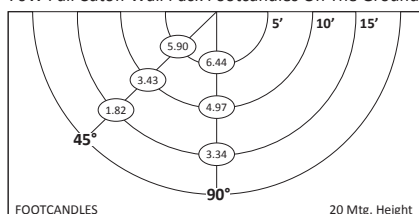


30W Full Cutoff Wall Pack Footcandles On The Ground



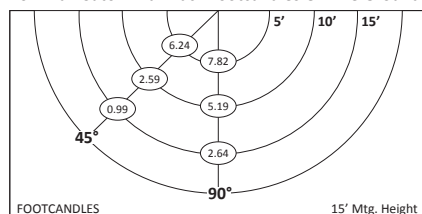
FULL CUTOFF WALL PACK FOOTCANDLES ON THE GROUND							
Mtg. Hgt.	90°			45°			Avg. FCs 450 sq.ft.
	5'	10'	15'	5'	10'	15'	
10'	9.53	3.70	1.40	6.13	1.41	0.38	3.76
15'	4.98	3.26	1.63	4.02	1.66	0.63	2.70

70W Full Cutoff Wall Pack Footcandles On The Ground



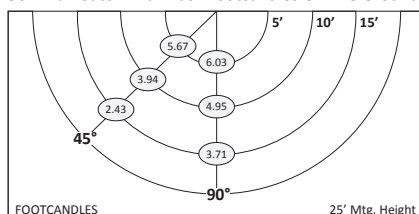
FULL CUTOFF WALL PACK FOOTCANDLES ON THE GROUND							
Mtg. Hgt.	90°			45°			Avg. FCs 450 sq.ft.
	5'	10'	15'	5'	10'	15'	
20'	6.44	4.97	3.34	5.90	3.43	1.82	4.32
25'	4.34	3.48	2.74	4.09	2.83	1.71	3.20

40W Full Cutoff Wall Pack Footcandles On The Ground



FULL CUTOFF WALL PACK FOOTCANDLES ON THE GROUND							
Mtg. Hgt.	90°			45°			Avg. FCs 450 sq.ft.
	5'	10'	15'	5'	10'	15'	
15'	7.82	5.19	2.64	6.24	2.59	0.99	4.25
20'	4.57	3.71	2.49	4.01	2.33	1.13	3.04

90W Full Cutoff Wall Pack Footcandles On The Ground



FULL CUTOFF WALL PACK FOOTCANDLES ON THE GROUND							
Mtg. Hgt.	90°			45°			Avg. FCs 450 sq.ft.
	5'	10'	15'	5'	10'	15'	
25'	6.03	4.95	3.71	5.67	3.94	2.43	4.46
30'	4.29	3.65	3.10	4.09	3.14	2.13	3.40

SPECIFICATIONS / ORDER INFO

Catalog Number	Product Code	UPC Code	Watts	Lumens	HID Equiv.*	IES Type Dist.	DLC I.D.	DLC Status	Case Qty
F-AWP/30/50K/BZ-80	70743	751338017634	30	3,000	100W	II	PK9B1M1Y	Standard	1/6
F-AWP/40/50K/BZ-80	70744	751338017641	40	4,500	175W	II	P2757QBM	Premium	1/6
F-AWP/70/50K/BZ-80	70745	751338017658	70	7,800	250W	III	P57XXJSE	Standard	1
F-AWP/90/50K/BZ-80	70746	751338017665	90	10,500	320W	III	PETG6QDN	Standard	1

NOMENCLATURE

Example: F-AWP/30/50K/BZ

F=Fixture / AWP=Adjustable Wall Pack / 30=30 Watts / 50K=5000K CCT / BZ=Bronze Finish

*Equivalent wattage shown depends on application and fixture. Specifications subject to change without notice.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Fixture may not be compatible with all dimmers.

DESCRIPTION

The Sure-Lites Wet location Emergency Light (SELW) is designed to reduce total egress system cost and maintenance in a wet location environment as well as improve system reliability. Key features include long life LED's, proprietary rotatable accuLED optics, a nickel cadmium battery as well as the Eagle Eye self-diagnostics option. The SELW is UL924 wet location code compliant listed with a standard 0 °C to 40 °C temperature rating or a -20 °C to 55 °C wide temperature option. The SELW's easy hang feature reduces installation time and cost.

SPECIFICATION FEATURES

Electrical

- Dual Voltage Input 120/277 VAC, 60Hz
- Brownout circuit
- Low voltage disconnect
- Overload / Short Circuit protection
- 4.8V Battery back-up
- 1.4W AccuLED optics

Environmental

- Outdoor rated
- SELW: 0 °C to 40 °C (32 °F to 104 °F)
- SELWT: -20 °C to 55 °C (-4 °F to 131 °F)

Housing Construction

- Components injection molded, color stable, high impact thermoplastic
- White, black, silver, or bronze textured finish
- Snap-fit construction to facilitate fast installation
- Suitable for wall mount applications
- Universal J-box mounting pattern
- Keyhole mounting slots
- Aesthetically designed with a thin profile
- Sealed and gasketed for Wet Location use

Battery

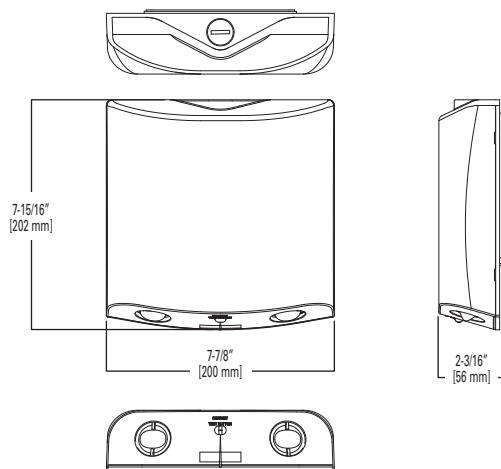
- Sealed Nickel Cadmium
- Full Recharge Time, 24 hours (max.)

Warranty

- Five-year warranty

Code Compliance

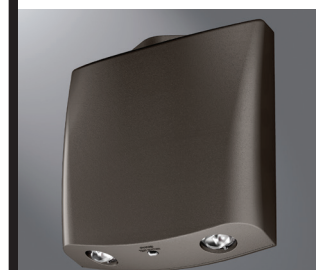
- UL924 Wet Location Listed
- Life Safety NFPA 101
- NEC/OSHA
- Most State & Local Codes
- California Energy Code



White



Black



Bronze



Silver

Emergency Light SELW

LED Emergency Light
Wet Location
AccuLED Optic
Eagle Eye Self Diagnostics

ORDERING INFORMATION

SAMPLE NUMBER: SELW25BZ

Series	Spacing	Battery	Color	Self Diagnostics	Catalog
SELW=Wet location	25=25 ft.	_ =NC	_ =Silver BZ=Bronze BK=Black WH=White	Not Available	SELW25 SELW25BZ SELW25BK SELW25WH

Series	Spacing	Battery	Color	Self Diagnostics	Catalog
SELW=Wet location	29=29 ft.	_ =NC	_ =Silver BZ=Bronze BK=Black WH=White	SD=self diagnostic	SELW29SD SELW29BZSD SELW29BKSD SELW29WHSD

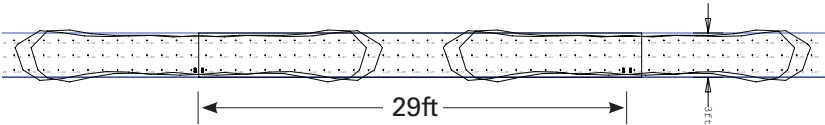
Series	Spacing	Battery	Color	Self Diagnostics	Catalog
SELWT=Wet location, wide temperature	29=29 ft.	_ =NC	_ =Silver BZ=Bronze BK=Black WH=White	SD=self diagnostic	SELWT29SD SELWT29BZSD SELWT29BKSD SELWT29WHSD

ELECTRICAL DATA

120V				277V		
Model	Power (W)	Current (A)	PF	Power (W)	Current (A)	PF
SELW29SD	0.6	0.07	0.07	0.7	0.07	0.03
SELW25	0.6	0.08	0.064	0.8	0.08	0.03
SELWT29SD	2.0	0.3	0.07	1.8	0.21	0.03

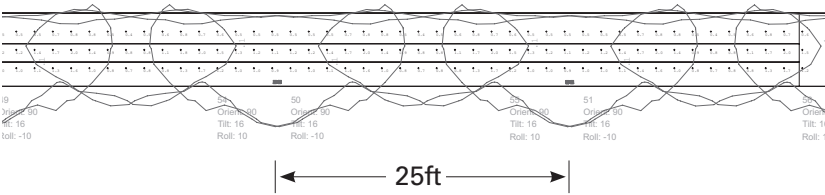
PHOTOMETRY

SELW29SD; SELWT29SD



X	Y	Z	Orient	Tilt	Roll
-0.25	0.5	7.5	90	7	1
0.25	0.5	7.5	90	7	-1
28.75	0.5	7.5	90	7	1
29.25	0.5	7.5	90	7	-1
57.75	0.5	7.5	90	7	1
58.25	0.5	7.5	90	7	-1
-29.25	0.5	7.5	90	7	1
-28.75	0.5	7.5	90	7	-1

SELW25



X	Y	Z
0	0.33	7.5
0.33	0.33	7.5
24.33	0.324	7.5
48.33	0.317	7.5
72.33	0.311	7.5
96.33	0.305	7.5
24	0.323	7.5
48	0.316	7.5
72	0.309	7.5
96	0.302	7.5

***The “Rule of Thumb” spacing guidelines are designed to achieve 1 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum/minimum ratio. The corridor used is 100 feet long, 9 foot ceiling with a 6 foot wide walkway and 3 foot path of egress. The reflectances are 80% ceiling, 50% walls and 20% floors. The fixture mounting height is 7.5 feet. Eaton assumes no responsibility for local requirements or specific project variables. This is a guideline to be used as a design aid, not as guarantee of any code compliance.

TECHNICAL DATA**AccuLED Optics**

The AccuLED precision engineered optics display sharp cutoffs and oval light pattern, which provide a clear path of egress per UL924 standards. The efficient optical design increases spacing distance between units, while providing evenly diffused light pattern throughout the egress path for both 1 foot candle average and 0.1 ft candle minimum. The lens swivel feature within the AccuLED optic provides the opportunity of forward-throw of egress lighting.

Mechanical Housing

All components are injection molded with a color stable, high impact thermoplastic resin. The surface is textured to improve aesthetic appearance. The housing construction is designed with snap-fit components and reinforcement ribs to provide maximum strength at minimum installation effort. The mounting hole pattern is universal to junction box requirements and is suitable for wall mount applications.

EZ Hang – Mounting Feature

The hands-free EZ Hang feature allows the installer to hang the emergency light face from the back plate in order to easily and efficiently make the power connections.

Eagle Eye™ Self Diagnostics

The Eagle Eye self-diagnostic software will automatically perform all tests required by UL924, and NFPA101. The system indicates the status of the emergency light at all times using the LED indicator. A 90 minute battery power (emergency mode) simulation test will occur once every 12 months. A 30 second battery power simulation test will occur every 30 days. The Solid-State microprocessor based system has the ability to accurately detect and warn of system failures, plus it incorporates all of the standard electronic features that sets Sure-Lites apart from its competition. Eagle Eye self diagnostic software automatically performs all testing required by the NFPA 101 Life Safety Code and systematically calibrates itself in the field, reducing installation labor and eliminating manual calibration errors.

Low Voltage Disconnect

When the battery's terminal voltage falls, the low-voltage circuitry disconnects the lighting load. The disconnect remains in effect until normal utility power is restored preventing deep battery discharge.

Brownout Circuit

The brownout circuit monitors the flow of AC current to the unit and activates the emergency light heads when a predetermined reduction of AC power occurs.

Warranty

The SELW series is backed by a five-year warranty on the fixtures and a seven-year pro-rata warranty on the NiCad batteries.

SELF DIAGNOSTIC TESTING OPERATIONS

The Sure-Lites Eagle Eye Self Diagnostics is continuously monitoring your emergency fixture, and will signal any failure through the 3 color indicator LED.

Initial Operation:

When the unit is first powered up, it will go into a 24 hour fast charge, indicated by the indicator LED pulsing green. Once the unit has fully charged, it will perform a self calibration, after which the LED will change to steady green, indicating the unit is fully charged and float charging the battery to maintain readiness.

Automatic Testing:

The unit will perform a battery capacity, lamp/LED, and charge circuit test every 30 days for 30 seconds. During this time, the indicator LED will change to a steady yellow. It will perform a full battery capacity (90 minute) test once per year. During this time, the indicator LED will change to a blinking yellow.

Manual Testing:

- 10 Second "Installation" test – Press and release the test button once during fast charge (blinking green) to initiate a 10 second quick test. The sign will switch to emergency mode for 10 seconds allowing the installer to verify proper installation of the unit, and the LED indicator will turn solid yellow
- 30 Second Test - Press and release the test button once during float charge (steady green). The indicator LED will turn steady yellow to indicate the unit is performing a 30 second test of the batteries and lamps/LEDs
- 90 Minute Test - Press and release the test button a second time during a 30 second test (steady yellow) to change to a 90 minute test. During this test, the LED indicator will change to blinking yellow, and the circuit will perform a full battery capacity, charge circuit, and LED test
- Canceling Test – Press and release the test button during the 90 minute test (flashing yellow) to return the fixture to its original state (fast charge or float charge)

Laser Test:

The SD versions are equipped with a Laser Test function, that allows the unit to be manually tested without the need to physically press the test button. Shining a laser pointer in the hole marked "LASER TEST" on the bottom of the unit has the same effect as a press and release of the test button.

Clearing Failure Codes:

- A battery failure (LED two blink red) can be cleared by replacing the battery. Disconnecting the battery and AC power, or performing a full 90 minute discharge, will reset the error code, however, it will return if the battery is faulty
- Charge Circuit (LED three blink red) and lamp/LED failure (LED four blink red) will clear when the unit successfully passes a manual or

SELF DIAGNOSTIC TESTING OPERATIONS (CONTINUED)

automatic 30 second test


Indicators:









- LED Off - No power to unit, emergency mode.
- LED Steady Green - Unit is fully charged and is float charging the battery to maintain readiness.
- LED Green Pulse - Unit is in a 24 hour fast charge of the battery.
- LED Two Blink Red - Battery has failed a capacity test, or the battery is disconnected. See “Clearing Failure Codes” above.
- LED Three Blink Red - Battery charge circuit has failed. See “Clearing Failure Codes” above.
- LED Four Blink Red - Lamps have burned out, or on an EXIT/Combo, 50% or more of the LEDs have failed. See “Clearing Failure Codes” above.
- LED Steady Yellow - 30 second test or 10 second quick test (Fast Charge only).
- LED Blinking Yellow - 90 minute test.

Maintenance:

None required. Replace the batteries as needed according to ambient conditions. However, we recommend that the equipment be tested regularly in accordance with local codes.

SURE-LITES



	OFF - EMERGENCY MODE / POWER OFF		STEADY BLINK YELLOW - 90 MINUTE TEST
	STEADY BLINK GREEN - FAST CHARGE		2 BLINK RED - BATTERY FAILURE
	STEADY GREEN - FULL / FLOAT CHARGE		3 BLINK RED - CHARGE CIRCUIT FAILURE
	STEADY YELLOW - QUICK TEST		4 BLINK RED - LAMP/ LED FAILURE