



SECTION E1

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Project: Adrienne Arsht Center for Performing Arts, Miami, FL

Due to the diversity in state/provincial, local, and federal laws and codes that govern the design and application of architectural products, it is the responsibility of the individual architect, owner, and installer to ensure that products selected for use on projects comply with all applicable building codes and laws. U.S. Aluminum exercises no control over the use or application of its products, glazing materials, and operating hardware, and assumes no responsibility thereof.

The rapidly changing technology within the architectural aluminum products industry demands that U.S. Aluminum reserve the right to revise, discontinue or change any product line, specification or electronic media without prior written notice.

NOTE: Dimensions in parentheses () are millimeters unless otherwise noted.

Other metric units shown in this publication are:

m - meter

Kg - kilogram

Pa - pascal

KPa - kilopascal

MPa - megapascal

STORM FRONT™

Specifications

Hurricane Resistant Entrance Doors

• Series DH-350

SECTION 08 39 80

HURRICANE RESISTANT DOORS

NOA: 10-0121.10 Out-Swing
NOA: 08-0618.06 In-Swing

SERIES	FACE WIDTH	DEPTH	GLAZING INFILL	GLAZING METHOD
DH-350	3-3/4" (95.3)	2" (50.8)	9/16" (14)	Wet Glaze

I. GENERAL DESCRIPTION

Work Included: Furnish all necessary materials, labor, and equipment for the complete installation of aluminum framing as shown on the drawings and specified herein. *(Specifier Note: It is suggested that related items such as aluminum entrance doors, glass, and sealants be included whenever possible.)*

Work Not Included: Structural support of the framing system, interior closures, trim. *(Specifier list other exclusions).* Related Work Specified Elsewhere: *(Specifier list).*

QUALITY ASSURANCE

Drawings and specifications are based on the U.S. Aluminum Series DH-350 System. Whenever substitute products are to be considered, supporting technical literature, samples, drawings, and performance data must be submitted 10 days prior to bid in order to make a valid comparison of the products involved. Test reports certified by an independent test laboratory must be made available upon request.

PERFORMANCE REQUIREMENTS

Air Infiltration: 0.050 cfm/sq. ft at a pressure differential of 6.24 psf.

Forced Entry Resistance:

AAMA 1304. Dade County Protocol TAS-201, 202, and 203: Meets all Miami-Dade County, Florida air, structural, and impact requirements.

Large and Small Missile Impact Test: Maximum design pressure of +100 psf to -100 psf.

II. PRODUCTS MATERIALS

Extrusions shall be 6063-T5 alloy and temper (ASTM B221 alloy T6 temper). Fasteners, where exposed, shall be aluminum, stainless steel or zinc plated steel in accordance with ASTM A 164. Perimeter anchors shall be aluminum or steel, providing the steel is properly isolated from the aluminum. Glazing gaskets shall be E.P.D.M. elastomeric extrusions.

FINISH

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be given a Kynar 500 AAMA 2605 paint.

(Specify one of the following):

___ Bone White

___ Statuary Bronze

___ Kynar 500 (special order)

with the requirements of AAMA 2605. Color shall be *(Specify).*

Class 1 anodized extrusions shall be given a caustic etch followed by a anodic oxide treatment to obtain...

___ Bronze Anodize

___ Clear Anodize

FABRICATION

Vertical and horizontal framing members shall have a nominal face dimension of 1-3/4" x 5" x 1/8" thick (44 x 127 x 3.2).

GLAZING

Dade County

- DH-350 Single Door - 9/16" (14)
Heat strengthened with SentryGlas®
Plus interlayer

- DH-350 Pair of Doors - 9/16" (14)
Heat strengthened with SentryGlas®
Plus interlayer.

SEALANTS

All metal to metal joints shall use DOW 795 Silicone.

III. EXECUTION INSTALLATION

All glass framing shall be set by a qualified installer in correct locations as shown in the details and shall be level, square, plumb, and in alignment with other work in accordance with the manufacturer's installation instructions and approved shop drawings. All joints between framing and the building structure shall be sealed in order to secure a watertight installation.

PROTECTION AND CLEANING

After installation the General Contractor shall adequately protect exposed portions of aluminum surfaces from damage by grinding and polishing compounds, plaster, lime, acid, cement, or other contaminants. The General Contractor shall be responsible for final cleaning.

IV. OPTIONS

- Concealed Overhead Closers
- Exposed Heavy-Duty Closers

Technical Data

Hurricane Resistant Entrance Doors

- Series DH-350

The DH-350 is a High Performance Hurricane Resistant Storefront Entrance Door designed for all commercial entrance applications including retail space, hotels, condominiums, office buildings, institutional facilities, and industrial structures. The DH-350 complies with the stringent requirements of Florida's Miami-Dade County Building Codes, making it the top choice for installation in areas ravished by hurricanes. The DH-350 is intended to be installed in punched openings or as a liner frame within other U.S. Aluminum Impact Framing Systems.



Series DH-350 Hurricane Resistant
Out-Swing Medium Stile
Entrance (Exterior View)

Standard Features:

- Factory Pre-Glazed With Structural Silicone
- Standard Panel Sizes: 36" x 84" (914 x 2137) for Single Doors
72" x 84" (1829 x 2137) for Pairs of Doors
36" x 96" (914 x 2438) for Single Doors
72" x 96" (1829 x 2438) for Pairs of Doors
- Heavy Commercial Grade
- 8" (203.2) Bottom Rail
- Heavy-Duty Internal Corner Clips
- 1" x 5" (25 x 127) or 1-3/4" x 5" (44.5 x 127) Door Frame
- 0.125 Nominal Wall Thickness, Door, and Frame
- 1-1/2 Pair of 4" x 4-1/2" (101.6 x 114.3) Mortised Aluminum Butt Hinges with Non-Removable Stainless Steel Hinge Pins for 3070 / 6070 Doors
- Two Pairs of 4" x 4-1/2" (101.6 x 114.3) Mortised Aluminum Butt Hinges with Non-Removable Stainless Steel Hinge Pins for 3080 / 6080 Doors
- Double Rows of Weather Seals
- Three-Point Locking System with Cylinder and Thumbturn Included
- Standard Push/Pull Set 1" (25) Round US28 Finish
- Non-Removable Interior Glass Stops
- Wet Glazing Method
- Three Color Option

Options:

- Custom Finishes: AAMA 2605 Compliant Painted Finishes
- Concealed Overhead Closers
- Exposed Heavy-Duty Closer for Coastal and High Wind Zones
- Glass Tint Available as Selected by the Architect/Owner
- CRL Jackson Concealed Panic Exit Device
- Open for Glazing by Customer
- Glass: Large Missile 9/16" (14) Laminated Impact Glass 0.090" Interlayer SGP by Dupont; Laminated Glass Composition: 1/4" (6) Heat-Strengthened Laminated with 0.090" SentryGlas® Plus Interlayer and 1/4" (6) Heat-Strengthened Glass



Series DH-350 Hurricane Resistant
In-Swing Medium Stile
Entrance (Exterior View)

STORM FRONT™

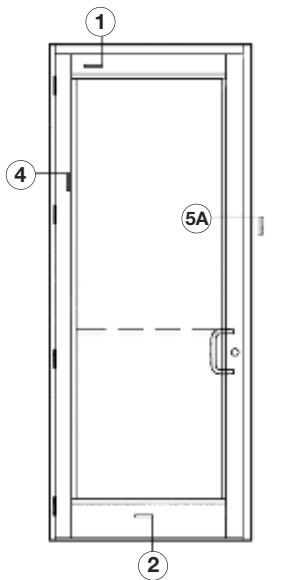


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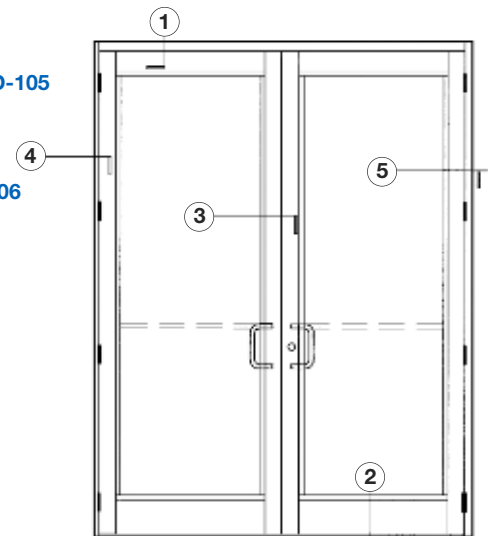
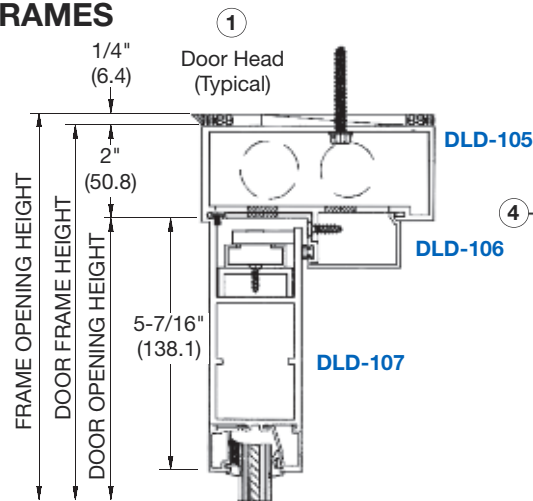
Hurricane Resistant Entrance Doors

• Series DH-350

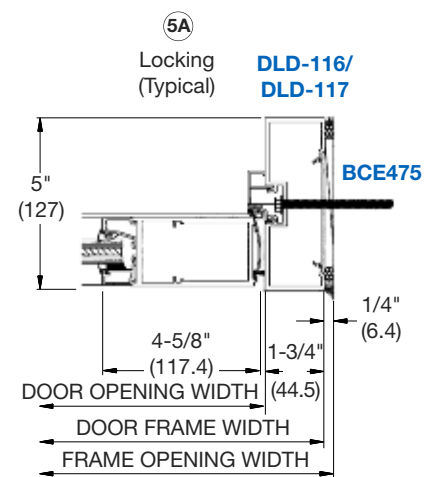
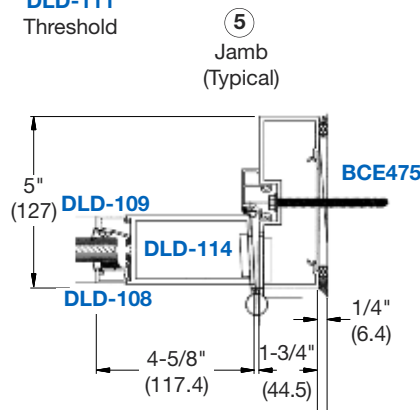
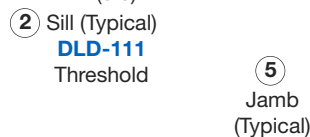
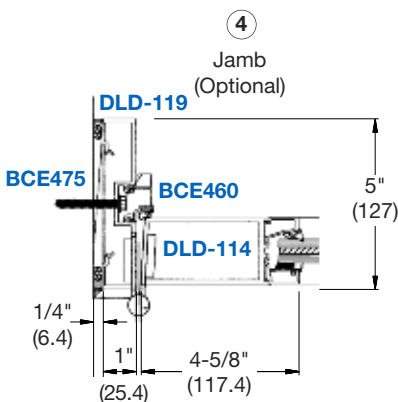
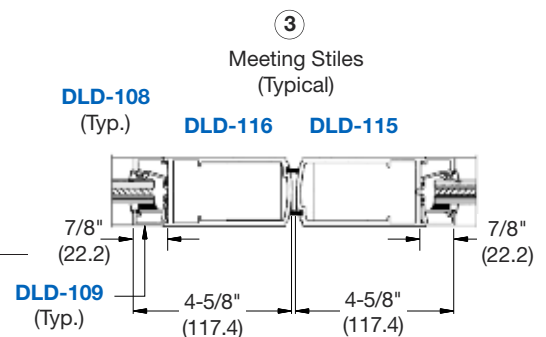
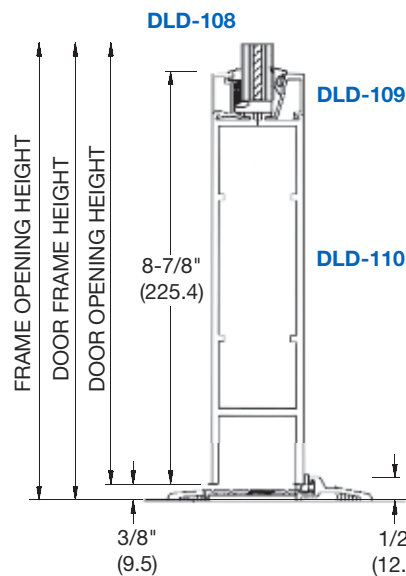
OUT-SWING DOORS AND FRAMES



TYPICAL ELEVATION
OUT-SWING SINGLE DOOR



TYPICAL ELEVATION
OUT-SWING PAIR OF DOORS



NOT TO SCALE

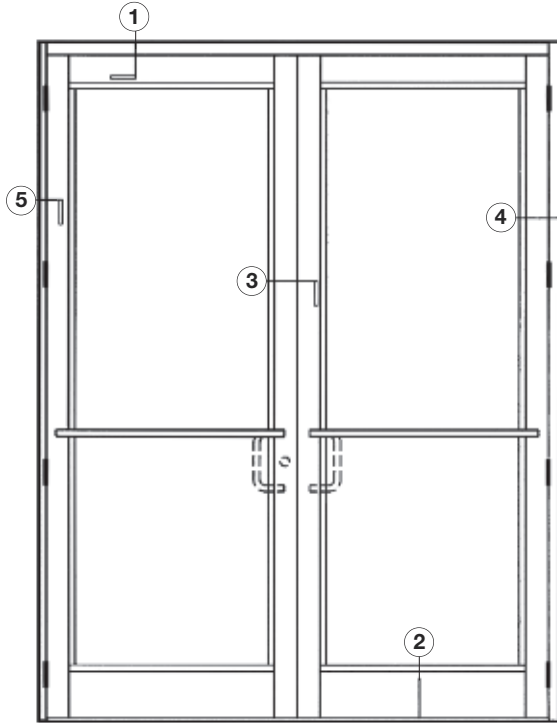
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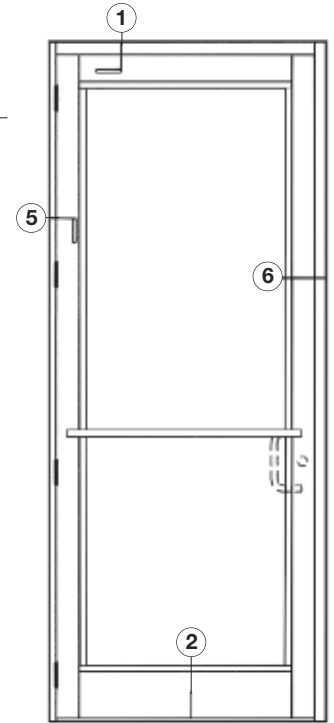
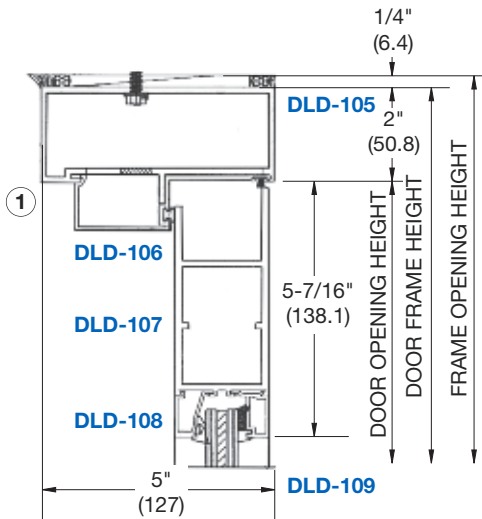
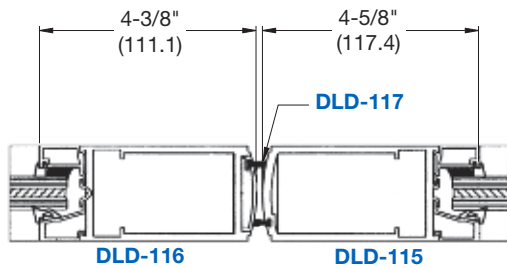
Hurricane Resistant Entrance Doors

• Series DH-350

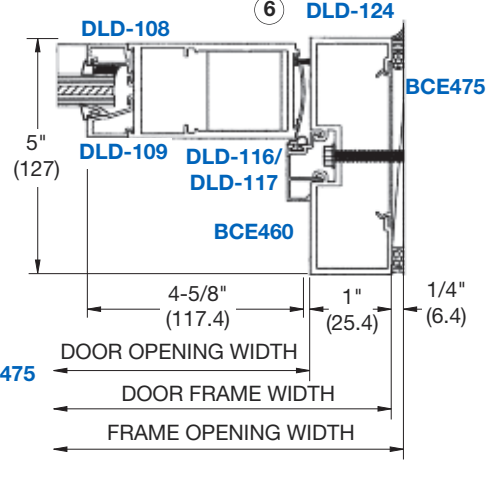
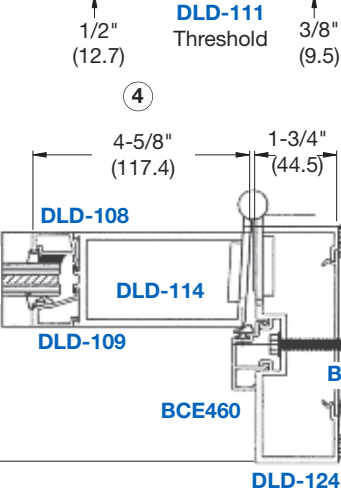
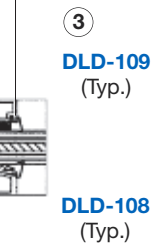
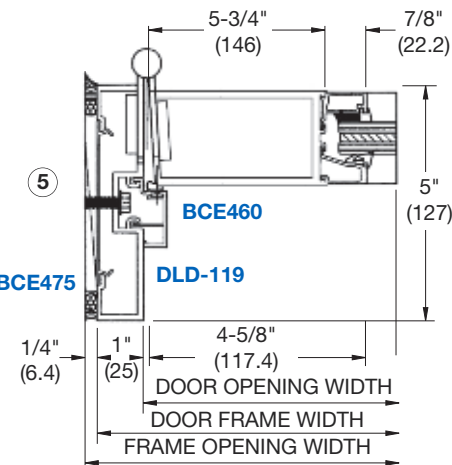
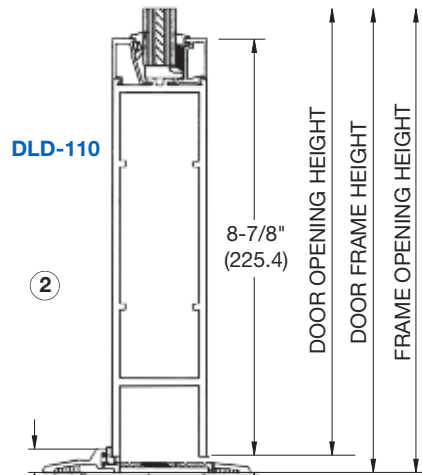
IN-SWING DOORS AND FRAMES



**TYPICAL ELEVATION
IN-SWING PAIR OF DOORS**



**TYPICAL ELEVATION
IN-SWING SINGLE DOOR**



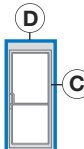
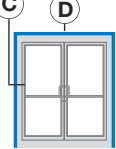
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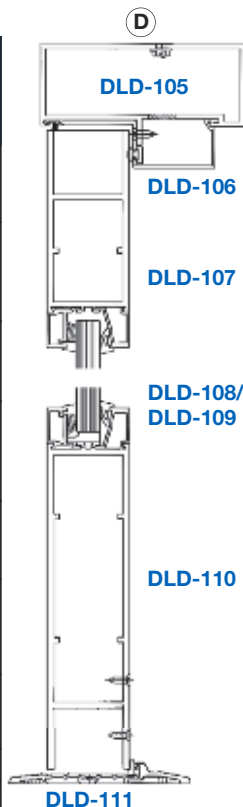


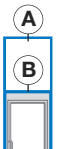
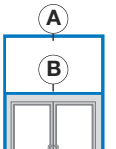
OUT-SWING DOOR FRAMES

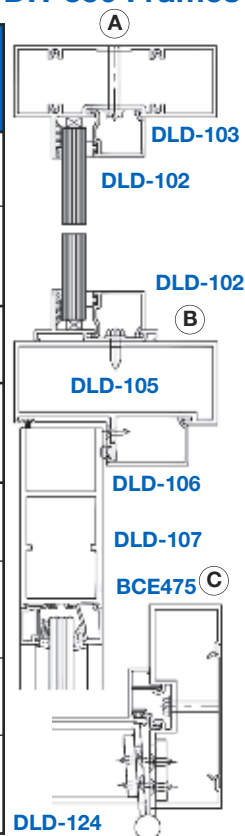
Hurricane Resistant Entrance Doors

• Series DH-350 Frames

UP/OVER FRAMES FOR SINGLE AND PAIRS	HARDWARE	PART NO.*
 Frame without Transom 39-1/2" x 86" or 39-1/2" x 98"	3 Butt Hinges 3-Point Lock 36" x 84" D.O.	DH350A10FN
	3 Butt Hinges Jackson Exit Device 36" x 84" D.O.	DH350A20FN
	4 Butt Hinges 3-Point Lock 36" x 96" D.O.	DH350A11FN
 Frame without Transom 75-1/2" x 86" or 75-1/2" x 98"	3 Butt Hinges 3-Point Lock 72" x 84" D.O.	DH350A10FNP
	3 Butt Hinges Jackson Exit Device 72" x 84" D.O.	DH350A20FNP
	4 Butt Hinges 3-Point Lock 72" x 96" D.O.	DH350A11FNP
	4 Butt Hinges Jackson Exit Device 72" x 96" D.O.	DH350A21FNP



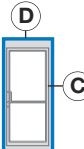
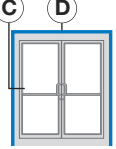
TRANSOM FRAMES FOR SINGLE AND PAIRS	HARDWARE	PART NO.*
 Frame with Transom 39-1/2" x 120"	3 Butt Hinges 3-Point Lock 36" x 84" D.O.	DH350A10FT
	3 Butt Hinges Jackson Exit Device 36" x 84" D.O.	DH350A20FT
	4 Butt Hinges 3-Point Lock 36" x 96" D.O.	DH350A11FT
 Frame with Transom 75-1/2" x 120"	3 Butt Hinges 3-Point Lock 72" x 84" D.O.	DH350A10FTP
	3 Butt Hinges Jackson Exit Device 72" x 84" D.O.	DH350A20FTP
	4 Butt Hinges 3-Point Lock 72" x 96" D.O.	DH350A11FTP
	4 Butt Hinges Jackson Exit Device 72" x 96" D.O.	DH350A21FTP

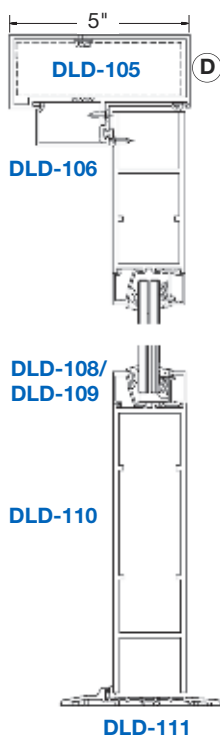


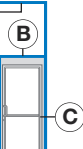
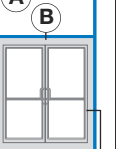
* For single door frames specify right or left handed at time of order.

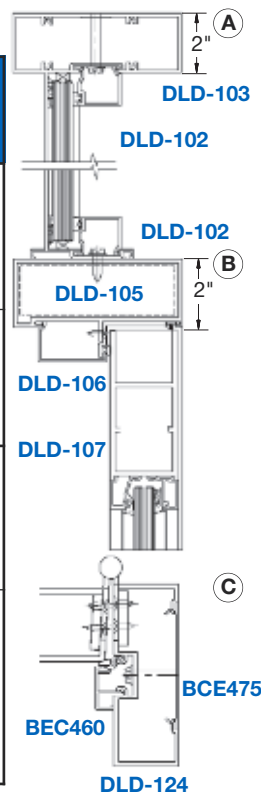
* For single door frames specify right or left handed at time of order.

IN-SWING DOOR FRAMES

UP/OVER FRAMES FOR SINGLE AND PAIRS	HARDWARE	PART NO.*
 Frame without Transom 39-1/2" x 86" or 39-1/2" x 98"	3 Butt Hinges 3-Point Lock 36" x 84" D.O.	DH3501NA10FN
	4 Butt Hinges 3-Point Lock 36" x 96" D.O.	DH3501NA11FN
 Frame without Transom 75-1/2" x 86" or 75-1/2" x 98"	3 Butt Hinges 3-Point Lock 72" x 84" D.O.	DH3501NA10FNP
	4 Butt Hinges 3-Point Lock 72" x 96" D.O.	DH3501NA11FNP



TRANSOM FRAMES FOR SINGLE AND PAIRS	HARDWARE	PART NO.*
 Frame with Transom 39-1/2" x 120"	3 Butt Hinges 3-Point Lock 36" x 84" D.O.	DH3501NA10FT
	4 Butt Hinges 3-Point Lock 36" x 96" D.O.	DH3501NA11FT
 Frame with Transom 75-1/2" x 120"	3 Butt Hinges 3-Point Lock 36" x 84" D.O.	DH3501NA10FTP
	4 Butt Hinges 3-Point Lock 36" x 96" D.O.	DH3501NA11FTP



* For single door frames specify right or left handed at time of order.

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Accessories

Hurricane Resistant Entrance Doors

- Series DH-350

PART NO.	DETAIL	DESCRIPTION	PKG. QTY.
V220414		Norton 1/8" x 1/4" (3.2 x 6.4) ThermalBond Glazing Tape	50' (15.2 m) Roll
ACE1013		E.P.D.M. Glazing Gasket	300' (91.4 m) Roll
12N125SFPS		Assembly Screws #12 X 1-1/4" (31.8) Pan Head Phillips	100
SB574		Neoprene Setting Block 1/8" x 3/4" x 4" (3.2 x 19 x 102) Long	100
12NWFS2Z		Bolts 1/4-20 x 2" (51) MS With Washer and Nut	100
BCE475		Flat Fillers 2-1/2" (63.5) Long. Used at Anchor Locations	50



Project: Corporate Offices, Miami, FL