



DSA COASTAL RATED DOORS: DP-50

A 'DP' (Design Pressure) Rating refers to the capability of an exterior door unit to withstand a set wind load and resistance to air infiltration. **DP-50 Rated** units are tested with a design load of +/-50psf (pounds per square foot) and can stand up against hurricane-force winds up to **173 mph**.

DSA has **more than 25 Standard Collections** available DP-50 Rated, including Bifold Doors. The Breezport, Dutch, and our Slimline Doors are not available DP-50 Rated, as well as any configuration featuring Direct-set Sidelites and Transoms. For access to our DP-50 NAMI and Florida Certification Codes, please visit www.DSADoors.com/resources under 'Coastal Ratings and Certifications'.

DP-50 Testing Standards:

ASTM E330-02: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

ASTM E283-04: Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.

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 **DSA**
Master Crafted Doors

DP-50 RATED UNIT CONSTRUCTION

All DSA DP-50 Rated Pre-hung units come with 1" thick single rabbeted jambs, 4" x 4" steel ball bearing hinges, Schlegel's Hydrosill™ for Inswing units or the Endura Bump Sill for Outswing units. DP-50 units must either be prepped for standard Double Bore or equipped with a Multipoint Lock. Only the Ashland Multipoint Locking System is certified for our DP-50 Rated units. Any other locking mechanism DSA offers is not available for DP-Rated units, except for the Multipoint Lock included with Bifold Doors.

Units prepped for Double Bore are assembled with steel bars (DP-50 Bars) installed on the outside of the strike jamb, inside a Double T-Astragal, and on the top and bottom of the Inactive Door. The steel bars provide reinforcement of the lockset to prevent breakout during high winds and pressure. DP-50 Rated units that have the Ashland Multipoint Locking System installed do not require any DP-50 Bars to reinforce the lockset and are only applied the top and bottom of the Inactive Door.

DP-50 BAR PLACEMENT - SINGLE AND DOUBLE DOOR UNITS

Single Door Units: Strike Jamb (Double Bore only)

Double Door Units: Top & Bottom of Inactive Door (Double Bore & Multipoint)

Double Door Units: Double T-astragal (Double Bore only)

DP-50 SINGLE DOORS

Double Bore (Non-Multipoint only)



Single Door Configurations that are prepped for Double Bore require a steel-reinforced frame.*

The outer jamb is routed to fit a 1/2" x 1-1/2" x 18" steel bar which is securely screwed into the frame. The bar is located between the outside frame and stud and will not be visible once installed.

Single Doors with Sidelites prepped for Double Bore will have the steel bar sandwiched between the double strike-side jamb where the Sidelite and Door are mullied together.

** DP-50 Rated Single Half-Round Doors (E-01C) are not available with the Ashland Multipoint and must be prepped for double bore only.*

DP-50 DOUBLE DOORS

Double Bore & Multipoint



Coastal Rated DP-50 Double Door units have DP-Bars applied to the top and bottom of the Inactive Door panel.

Square and Arch Top Double Doors use a 1/2" x 1-1/2" x 8" steel bar screwed into the top and bottom rail. The bars provide additional security to the stile and rails of the Inactive Door.

DP-50 DOUBLE DOORS

Double T-Astragal (Non-Multipoint only)

All DP-50 Rated Double Door units that do not have the Ashland Multipoint Lock installed require a steel-reinforced T-Astragal applied to both the Active and Inactive Door Panels. The steel reinforced Double T- astragal provides the extra security needed to withstand hurricane-force winds when installed with a traditional lockset.

