Ceco Door

ASSA ABLOY

D20-0

Multi-Solution Opening: Blast and Hurricane Resistant

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Blast and Hurricane Resistant:

Blast Up To 6.16 psi Category I (12 gage door and frame construction)
Blast Up To 9.74 psi Category II (14 gage door and frame construction)

The 3rd party tested Multi-Solution Opening meets UFC 4-010-01 DoD Minimum Anti-terrorism standards and ASTM 2927-12 Response Categories 1 (no damage) and 2 (damaged but operable) following a blast.

UL wind resistant building assemblies and components tested to the following windstorm or severe weather performance standards:

- 1. ASTM E330/E1886/E1996
- 2. TAS201, TAS202, TAS203
- 3. ANSI A250.13

Doors may also be classified as fire doors tested in accordance with UL10B or UL10C. Doors may be fire rated up to and including three hours, except as noted and may also be limited by gage, size, hardware, construction, etc.. All doors are impact resistant, passed large missile impact for missile level D. Only ASSA ABLOY prescriptive Corbin Russwin BL6600 series or Sargent BL7300 series +/-150 PSF multi-point locking hardware may be used.

Door Opening Sizes: All doors shall be 1 3/4" [44.5 mm] thick. The door opening width and height shall be as defined on the pages and illustrations that follow.

<u>Construction</u>: Special vertical lock edge stiffener and special lock reinforcements are required for the prescriptive +/-150 PSF doors. Special frame head reinforcements are required for multi-point lock head latching. Doors are 14 gage A60 face sheets or 12 gage A60 face sheets depending on what blast psi and category level is required.

Glass Lights, Viewer or Louvers: Not available.

<u>Windstorm Classification Label</u>: Each wind-resistant building assembly shall bear a classification mark of Underwriters Laboratories, LLC.

Frames may also be eligible to be listed as fire door frames tested in accordance with UL10B or UL10C. Frames may be eligible to be fire rated up to and including three hours where special reinforcements are installed. All frames are impact resistant, passed large missile impact for missile level D.

Frame Sizes: Listed sizes are defined in the pages that follow.

Construction: Each wind resistant building product shall be constructed as detailed in the pages that follow. Special head reinforcing channel and special hardware reinforcements required to be installed during manufacturing for the prescriptive +/- 150 PSF frame with concealed multi-point devices. Frames are constructed of 14 gage A60 standard and 12 gage A60 is optional, depending on what balst psi and category level is required. Frames must be factory welded.

<u>Frame Installation Instructions</u>: See Ceco's public website and ANSI A250.11 frame installation instructions. www.cecodoor.com

For Further information: Call 218-828-6256

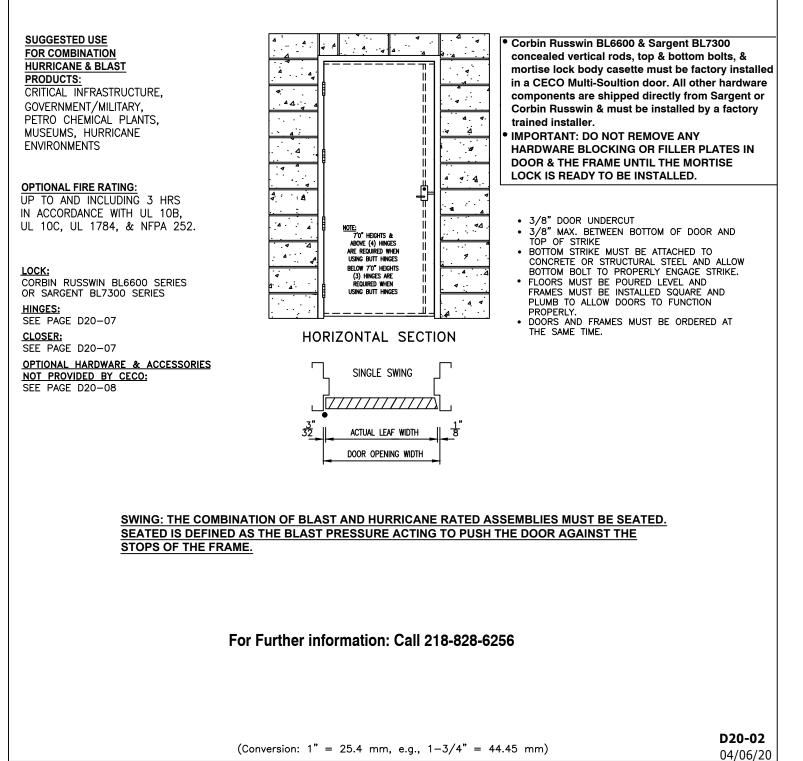
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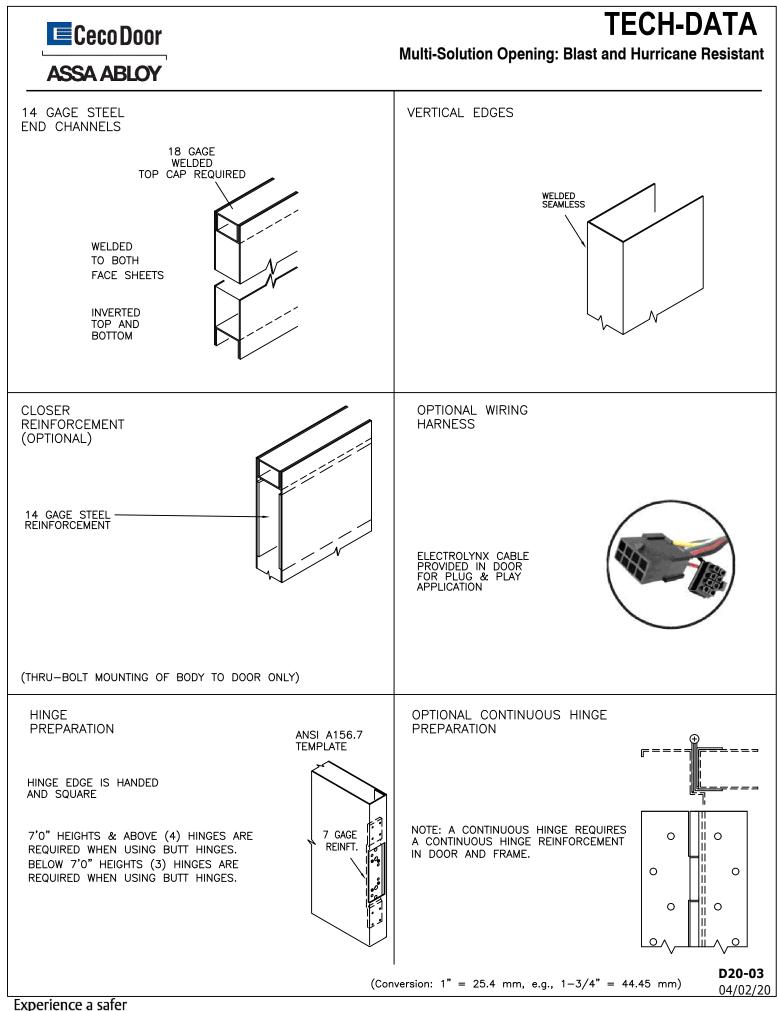


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DOOR: MIN. 2'8" X 6'8", MAX. 4'0" X 8'0" LEAF SIZE, 14 or 12 GAGE A60 GALVANNEALED FACE SHEETS, WITH STEEL STIFFENED AND FIBERGLASS CORE. 14 GAGE TOP AND BOTTOM CHANNELS, WELDED TOP CAP.





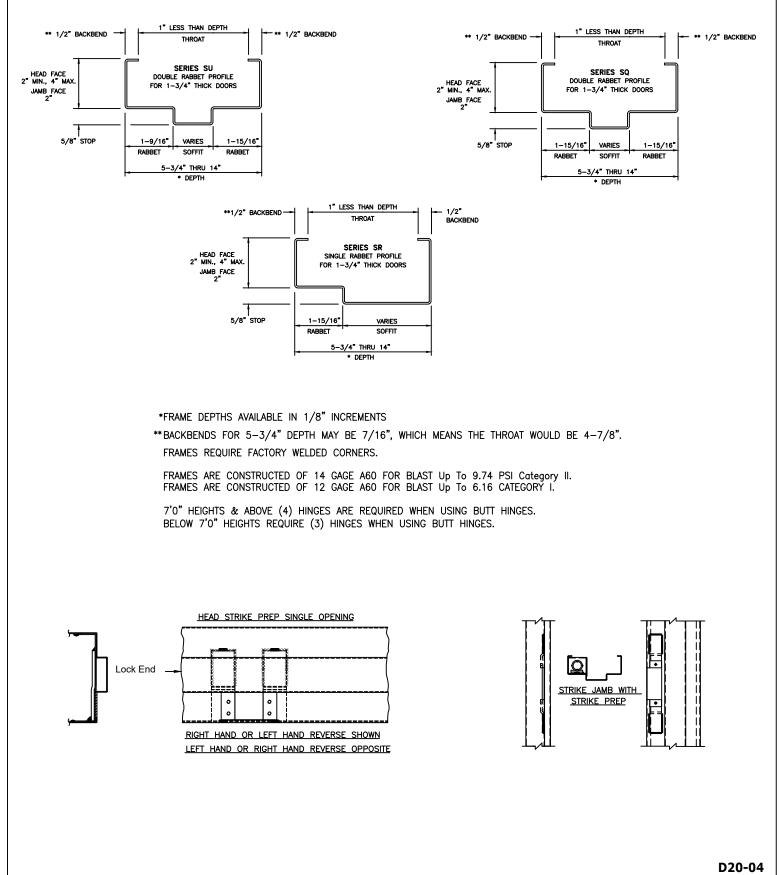
and more open world

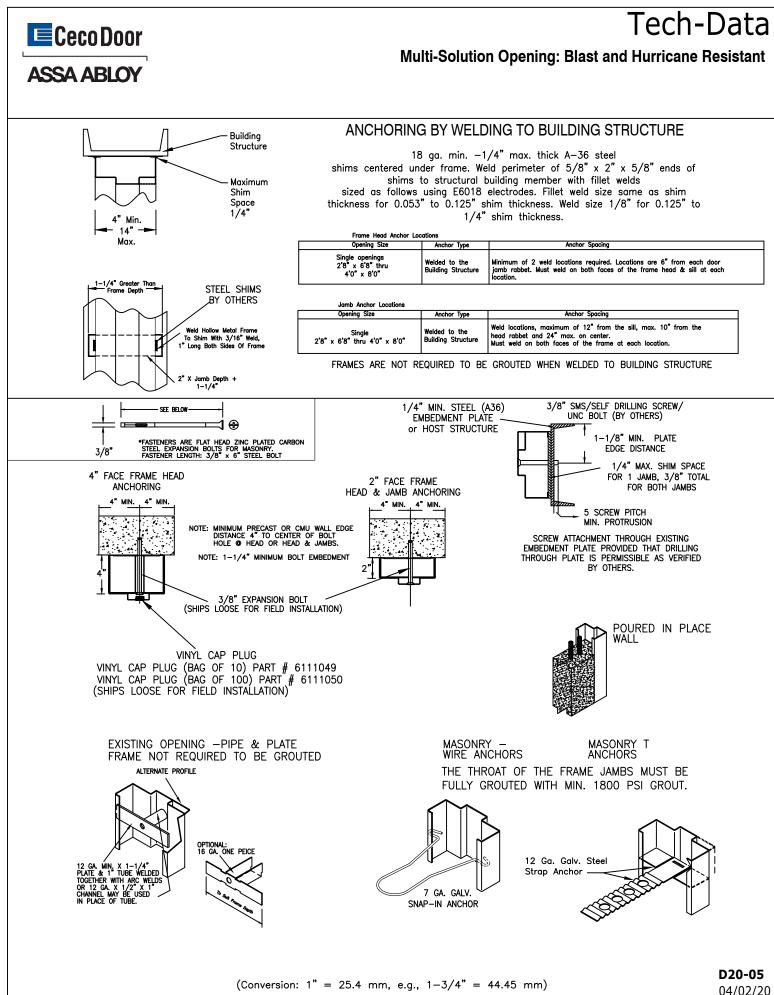
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HEAD ANCHOR LOCATIONS

[Opening Size	Anchor Type	Anchor Spacing
	Single Opening		Existing Wall Anchors Powers 3/8" Lock-Bolt AS Sleeve Expansion Bolt or 3/8" SMS/Self Drilling Screw/UNC Bolt	Minimum of 2 anchors required. Locations are 6" from each door jamb rabbet. When anchors are located in the door rabbet, the anchor at the lock jamb side will be located at 9".

ANCHORS MAY BE INSTALLED THROUGH EXISTING EMBEDMENT PLATES, PROVIDED THAT DRILLING THROUGH EXISTING EMBEDMENT PLATES IS PERMISSIBLE AS VERIFIED BY OTHERS. ANY EXISTING EMBEDMENT PLATES SHALL BE DESIGNED AND VERIFIED BY OTHERS.

FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS.

JAMB ANCHOR LOCATIONS

Existing Opening Bolt or Screw Fastened Jamb Anchor Locations

	Opening Size	Anchor Type	Anchor Spacing
e ning	28×68 up to ∞	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	Maximum of 8" from the sill, maximum of 4" from the head rabbet, and 21" maximum on center.
Single Opening	and up to and including	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	Maximum of 8" from the sill, maximum of 4" from the head rabbet, and 18" maximum on center.

FRAMES ARE REQUIRED TO BE GROUTED WHEN USING MASONRY T OR WIRE MASONRY WALL JAMB ANCHORS.

12 Gage Masonry "T" Jamb Anchor Locations

	Opening Size	Anchor Type	Anchor Spacing
Single Opening	2'8" x 6'8" up to and including 4'0" x 8'0"	12 Ga. Masonry "T" Anchors	Max. of 8" from the sill, max. 6" from the head rabbet, and 24" on center max.

Wire Masonry Jamb Anchor Locations

1		Opening Size	Anchor Type	Anchor Spacing
	Single Opening	2'8" x 6'8" up to & including 3'0"x7'0"	Wire Masonry Anchors	Max. of 12" from the sill, max. 10" from the head rabbet, and 18" on center max.
		Greater than 3'0" x 7'0" and up to and including 4'0" x 8'0"	Wire Masonry Anchor	Max. of 12" from the sill, max. 10" from the head rabbet, and 12" on center max.



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CONTINUOUS HINGES

MARKAR HG305 CONTINUOUS HINGE MARKAR FM300 CONTINUOUS HINGE (OUTSWING SEATED ONLY) MARKAR CONTINUOUS HINGES WITH OR WITHOUT EL OPTION NOTE: A CONTINUOUS HINGE REQUIRES A CONTINUOUS HINGE REINFORCEMENT IN DOOR AND FRAME.

WIDE THROW CONTINUOUS HINGES

•MARKAR HG305WT10 WIDE THROW HINGE WITH OR WITHOUT EL OPTION •MARKAR FM300WT WIDE THROW HINGE (WT10 THRU WT50) OUTSWING SEATED ONLY WITH OR WITHOUT EL OPTION NOTE: A CONTINUOUS HINGE REQUIRES A CONTINUOUS HINGE REINFORCEMENT IN DOOR AND FRAME.

HEAVY WEIGHT STANDARD AND WIDE THROW FULL MORTISE BUTT HINGES

•McKINNEY SP3786 $(4-1/2" \times 4-1/2" \times .180 \text{ OR } 5" \times 4-1/2" \times .190)$ •McKINNEY SP3386 $(4-1/2" \times 4-1/2" \times .180 \text{ OR } 5" \times 4-1/2" \times .190)$ •McKINNEY SP3386 $(4-1/2" \times 4-1/2" \times .5", 4-1/2" \times 6", 4-1/2" \times .7", 4-1/2" \times 8", 5" \times 4-1/2", 5" \times 5", 5" \times 6", 5" \times 7" \& 5" \times 8")$ •McKINNEY SP3386 & SP3786 WITH OR WITHOUT QC OPTION. •McKINNEY SP3386 & SP3786 WITH OR WITHOUT NRP

DOOR CLOSERS

•CORBIN RUSSWIN DC8000 SERIES DOOR CLOSER (THRU-BOLT MOUNTING OF BODY TO DOOR ONLY) •NORTON 7500 SERIES DOOR CLOSER (THRU-BOLT MOUNTING OF BODY TO DOOR ONLY) •SARGENT 281 SERIES DOOR CLOSER (THRU-BOLT MOUNTING OF BODY TO DOOR ONLY) •YALE 4400 SERIES DOOR CLOSER (THRU-BOLT MOUNTING OF BODY TO DOOR ONLY)

DOOR CLOSERS/HOLDERS

•SARGENT 2409 CLOSER/HOLDER (THRU-BOLT MOUNTING OF BODY TO DOOR ONLY) •SARGENT 351 EHT CLOSER/HOLDER (THRU-BOLT MOUNTING OF BODY TO DOOR ONLY) •NORTON 7700PT ELECTRIC DOOR CLOSER (THRU-BOLT MOUNTING OF BODY TO DOOR ONLY)

OVERHEAD STOP/HOLDERS •RIXSON 9 SERIES OVERHEAD STOP/HOLDER (THRU-BOLT MOUNTING OF BODY TO DOOR ONLY)

MECHANICAL HOLDERS

•ROCKWOOD 491S OR 494S MECHANICAL HOLDERS (THRU-BOLT MOUNTING OF BODY TO DOOR ONLY)

ELECTROMECHANICAL HOLDERS

•RIXSON 998, 998M, 999M, 980M, 990M, 991M, 996M OR 997M
ELECTROMECHANICAL HOLDERS (THRU-BOLT MOUNTING OF DOOR ARMATURE TO DOOR ONLY)
•SARGENT 1560, 1561 OR 1562 ELECTROMECHANICAL HOLDERS (THRU-BOLT MOUNTING OF CONTACT PLATE TO DOOR ONLY)

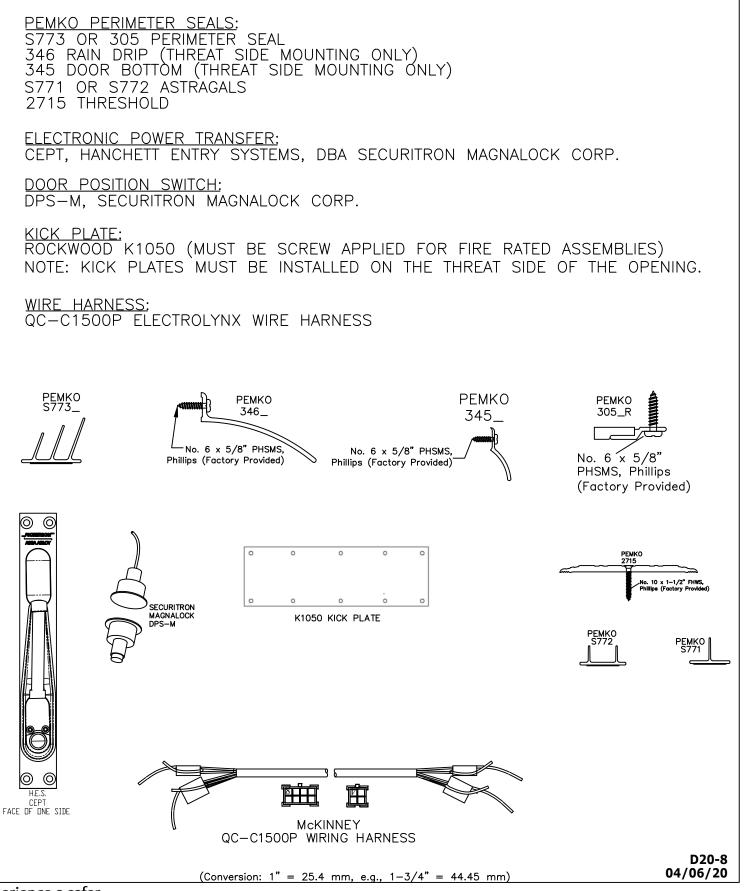




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