



111 Merchants Street • San Antonio, Texas 78204 • (210) 226-8271

## IMO / FTP APPROVALS

### B-15 Single and Door Pair

USCG CERTIFICATE No. 164.136/9/1

Door: 44.5 mm (1-3/4") Thick, 18 Ga. Cold Rolled, Galvannealed or Stainless Steel

Max. Door Leaf Size: 914 x 2,100 mm (36" x 82-5/8")

Window : 152 x 559 mm (6" x 22") Clear Opening (Optional)

Locks: Single Point with 13 mm Latch Throw (Grade 2 Cyl. Lock or Mortised Lock)

Louver: 300 cm<sup>2</sup> Free Air Space (Optional)

Kick-Out Panel: 457 x 457 mm (18" x 18") - Optional

Frame: Z Frame - 10 Ga. or Tube Frame - 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

### A-30 Single and Door Pair

USCG CERTIFICATE No. 164.136/10/0

Door: 54 mm (2-1/8") Thick, 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Window: 152 x 558 mm (6" x 22") Clear Opening (Optional)

Max. Door Leaf Size: 1,010 x 2,118 mm (39-3/4" x 83-3/8")

Locks: Single Door - Single Point Lock with 13 mm Latch Throw

Double Doors - Either Single Point Lock with 16 mm Latch Throw or 3-Point Lock

(Locks to be either Grade 1 Cyl. Lock or 3-Point Mortised Lock)

Frame: Z Frame - 10 Ga. or Tube Frame - 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: Gap Covering Flanges and/or Continuous Hinges

### A-30 Single and Door Pair

USCG CERTIFICATE No. 164.136/42/0

Door: 76 mm (3") Thick, 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Window : 254 x 254 mm (10" x 10") Clear Opening (Optional)

Max. Door Leaf Size: 1,213 x 2,426 mm (47-3/4" x 95-1/2")

Locks: Single Door - 3-Point Latch

Double Doors - 3-Point Latch (Inactive Leaf to have Flush Bolts and Flat Astragal)

Frame: Z Frame - 10 Ga. or Tube Frame - 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: Gap Covering Flanges and/or Continuous Hinges

### A-30 Door Pair

USCG CERTIFICATE No. 164.136/82/0

LLOYD'S REGISTER TYPE APPROVAL No. SAS F080122

Door: 127 mm (5-5/32") Thick, 14 Ga. Cold Rolled, Galvannealed or Stainless Steel

Max. Door Leaf Size: 1,219 x 2,590 mm (96" x 102")

Window : 254 x 254 mm (10" x 10") Clear Opening (Optional)

Lock: 3-Point Mortised Lock

Flush Bolts and Astragal on Inactive Leaf

Frame: 10 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: Gap Covering Flanges and/or Continuous Hinges

### A-60 Single Doors

USCG CERTIFICATE No. 164.136/20/0

Door: 64 mm (2-1/2") or 76 mm (3") Thick, 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Window: 254 x 254 mm (10" x 10") Clear Opening (Optional for a 76 mm Thick Door Only)

Max. Size: 1,060 x 2,124 mm (41-3/4" x 83-5/8") Door Panel

Locks: Mortised Lock or 3 Point Lock

Frames: Z Frame - 10 Ga. or Tube Frame - 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: 203 x 203 mm (8" x 8") Hose Port (76 mm Door Only),

Gap Covering Flanges and/or Continuous Hinges

BLAST RESISTANCE:

Engineering Analysis:

3'-0" x 7'-0" Door : 5.0 psi with a 20 psi-ms Impulse  
2.7 psi with a 100 psi-ms Impulse  
2.3 psi with a 500 psi-ms Impulse

### A-60 Single Door

USCG CERTIFICATE No. 164.136/11/0

Door: 75 mm (3") Thick, 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Window: 146 x 551 mm (6" x 22") Clear Opening or Equivalent Area (Optional)

Max. Door Leaf Size: 1,057 x 2,124 mm (41-5/8" x 83-5/8")

Locks: Mortised Lock - Single or 3-Point Latch

Frame: Z Frame - 10 Ga. or Tube Frame - 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: 203 x 203 mm (8" x 8") Hose Port, Gap Covering Flanges and/or Continuous Hinges

BLAST RESISTANCE:

Engineering Analysis:

3'-0" x 7'-0" Door: 9.0 psi with a 20 psi-ms Impulse  
4.0 psi with a 40 psi-ms Impulse  
2.8 psi with a 600 psi-ms Impulse

Static Load Tests: 5 psi (unseated condition)

All Units are Bolted or Welded Installation.



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### A-60 Single and Door Pair

USCG CERTIFICATE No. 164.136/45/0

Door: 75 mm (3") Thick, 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Window: 645 cm<sup>2</sup> (100 in<sup>2</sup>) Visible Opening (127 x 508 mm or 254 x 254 mm)

Max. Door Leaf Size: Single - 1,212 x 2,425 mm (47-3/4" x 95-1/2")

Lock: Mortised Lock or 3 Point Lock

Frame: Z Frame - 10 Ga. or Tube Frame - 16 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: Gap Covering Flanges and/or Continuous Hinges

BLAST RESISTANCE:

(Same performance as previous model for USCG Certificate #164.136/11/0)

### A-60/H-60 Single Door

USCG CERTIFICATE No. 164.136/81/0

LLOYD'S REGISTER TYPE APPROVAL No. SAS F080231

ABS CERTIFICATE No. 11-HS685482A-PDA

Door: 102 mm (4-3/16") Thick, 14 Ga. Cold Rolled, Galvannealed or Stainless Steel

Max. Door Leaf Size: 1,206 x 2,580 mm (47-1/2" x 101-1/2")

Lock: 3-Point Mortised Lock

Frame: 10 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: Gap Covering Flanges and/or Continuous Hinges

BLAST RESISTANCE:

Shock Tube Testing:

4'-0" x 7'-6" Door Assembly: 6.1 psi blast pressure with a 344 psi-msec Impulse

### A-60/H-60 Single Door

USCG CERTIFICATE No. 164.136/87/0

LLOYD'S REGISTER TYPE APPROVAL No. SAS F110006

ABS CERTIFICATE No. 11-HS685482A-PDA

Door: 144 mm (5-21/32") Thick, 14 Ga. Cold Rolled, Galvannealed or Stainless Steel

Max. Door Leaf Size: 1,205 x 2,123 mm (47-1/2" x 83-1/2")

Window: 254 x 254 mm (10" x 10") Clear Opening (Optional)

Lock: 3-Point Mortised Lock

Frame: 10 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: Gap Covering Flanges and/or Continuous Hinges



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## IMO / FTP APPROVALS

### A-60/H-60 Pair Hinged

USCG CERTIFICATE No. 164.136/89/0

LLOYD'S REGISTER TYPE APPROVAL No. SAS F110167

ABS CERTIFICATE No. 11-HS685482A-PDA

Door: 144 mm (5-21/32") Thick, 14 Ga. Cold Rolled, Galvannealed or Stainless Steel

Max. Door Leaf Size: 1,219 x 2,657 mm (48" x 104-5/8")

Window: 254 x 254 mm (10" x 10") Clear Opening (Optional)

Lock: 3-Point Mortised Lock

Frame: 10 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: Gap Covering Flanges and/or Continuous Hinges

### A-60 Single WEATHERTIGHT

USCG CERTIFICATE No. 164.136/91/0

Door: 140 mm (5-1/2") Thick, 14 Ga. Cold Rolled, Galvannealed or Stainless Steel

Max. Door Leaf Size: 1,219 x 2,134 mm (48" x 84")

Window: 254 x 254 mm (10" x 10") Clear Opening (Optional)

Lock: 3-Point Mortised Lock

Frame: 10 Ga. Cold Rolled, Galvannealed or Stainless Steel

Options: Gap Covering Flanges and/or Continuous Hinges

BLAST RESISTANCE:

Shock Tube Testing and Engineering Analysis:

4'-0" x 7'-0" Door Assembly: ~14.5 psi (1 bar) blast pressure with a >1,000 psi-msec Impulse

### A-60 Window

USCG CERTIFICATE No. 164.137/7/0

ABS CERTIFICATE No. 11-HS685482B-PDA

Maximum Size : 1,600 x 2,000 mm (63" x 79-3/4") Clear Opening

Frame : Mild Steel or Stainless Steel