



Durulite® Door Hardware Manual

 **Chase Doors**
World's Leading Manufacturer Of Traffic Doors

Cincinnati, Ohio and Redmond, Oregon
Phone: 1-800-543-4455 FAX: 1-800-245-7045
www.chasedoors.com

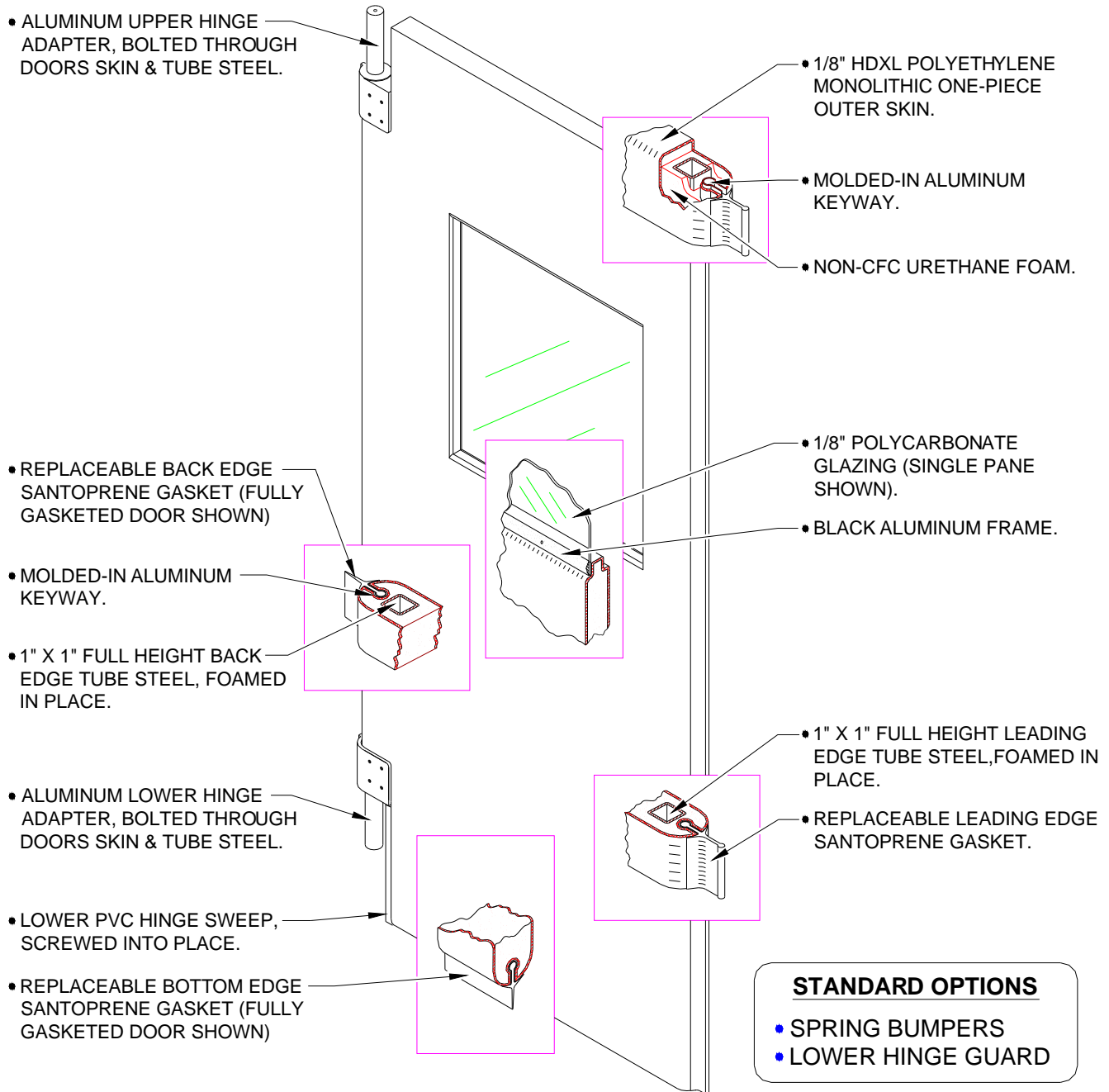


TABLE OF CONTENTS

DESCRIPTION	PAGE
Standard Door Construction	1
Industrial Door Construction	2
V-Cam	3-4
Pillow Block	5
Roller Assembly	6
Hinge Adapter	7
Spring Assist	8
Top Seal	9
Hinge Seals	10-11
Solid Riser	12
Lower Hinge Guard	13-14
Gasketing	15-16
Windows	17
Bumpers/Kickplates	18-20
Slide-Trac™ Bumper	21
Cane Bolts	22
Locking Devices	23
Weldplates	24-25
Door Stops	26
Limiting Posts	27
Fasteners	28
U.S.P.S. Security Doors	29-30

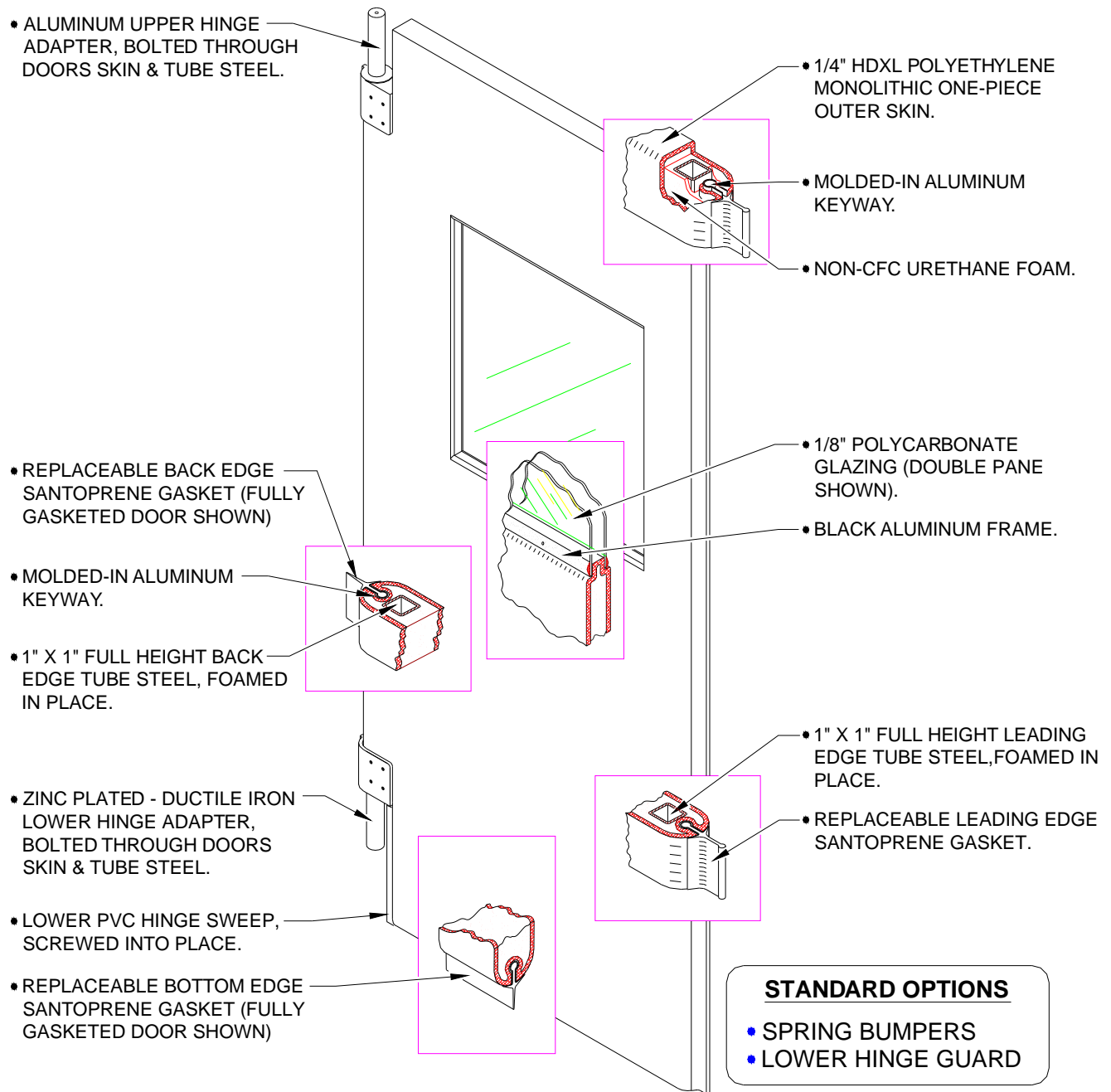
DURULITE STANDARD DOOR

EXCLUSIVE FEATURES (TWO YEAR WARRANTY)



DURULITE INDUSTRIAL DOOR

EXCLUSIVE FEATURES (ONE YEAR WARRANTY)

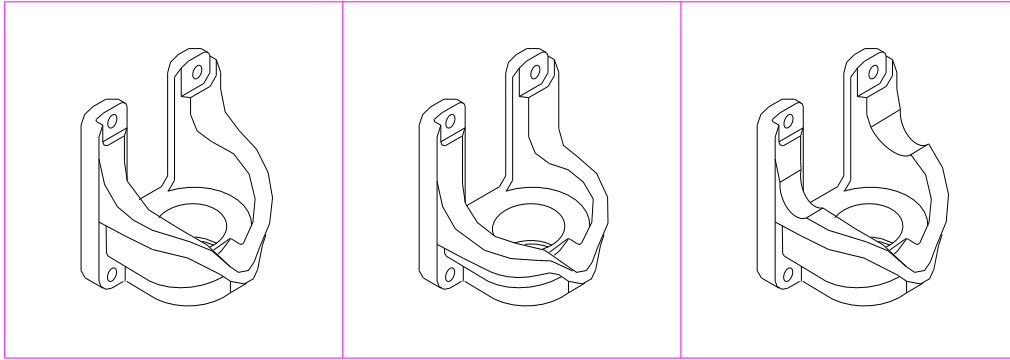


DURULITE DOOR HARDWARE FACTS SHEET

V-CAM

The V-Cam is the upper jamb hardware for the Durulite Door. It provides the upward track which the roller bearing follows as the door opens. It also seats the roller bearing in the doors closed position. V-Cams are available with a 90° swing in two directions, or a 90° swing one direction and a 180° swing the opposite direction. The 90° and 180° V-Cams are available in Ductile Iron material. The 90° V-Cam is available with a 1-3/8" or 3/4" rise. The 180° V-Cam is available only with a 1-3/8" rise. All V-Cams come equipped with a replaceable bushing, which holds the Hinge Adapter Shaft in place. An absorber pad lines the back of the V-Cam, cushioning the shock of door movement. ***Welding of the V-Cam to the frame voids the warranty.*** Weldplates are available through the factory.

DESCRIPTION	PART NO.	MATERIAL	FEATURES
Standard V-Cam	5561-1	Ductile Iron	90° swing in two directions. 1-3/8" rise.
Low-Rise V-Cam	5587-1	Ductile Iron	90° swing in two directions. 3/4" rise. For use in corrosive environments. Specify when ease of opening door is required, or reduced height openings (requires 1-1/2" Top Seal gap).
V-Cam with Hold-Open	5561-1-H	Ductile Iron	90° swing in two directions. 1-3/8" rise. V-Cam with hold open device. Use when doors must be maintained in open position.
180° V-Cam	5573-1 (left) 5572-1 (right)	Ductile Iron	180° swing in direction. 90° swing opposite direction. 1-3/8" rise. For use in corrosive environments. V-Cam mounts on corner of jamb. Specify when traffic turns immediately after exiting doors.
180° V-Cam With Hold-Open	5573-1-H (left) 5572-1-H (right)	Ductile Iron	180° swing in direction. 90° swing opposite direction. 1-3/8" rise. Use when doors must be maintained in open position. Hold-Open device occurs on 90° side.



90° V-CAM

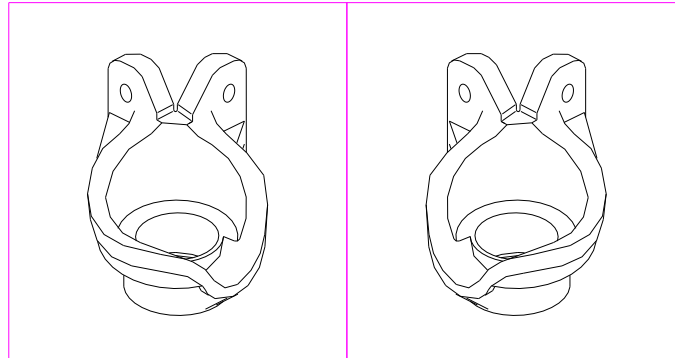
P/N 5561-1 • 1-3/8" RISE
MATERIAL: DUCTILE IRON

90° V-CAM

P/N 5587-1 • 3/4" RISE
MATERIAL: DUCTILE IRON

90° V-CAM

P/N 5561-1-H
1-3/8" RISE W/ HOLD OPEN
MATERIAL: DUCTILE IRON

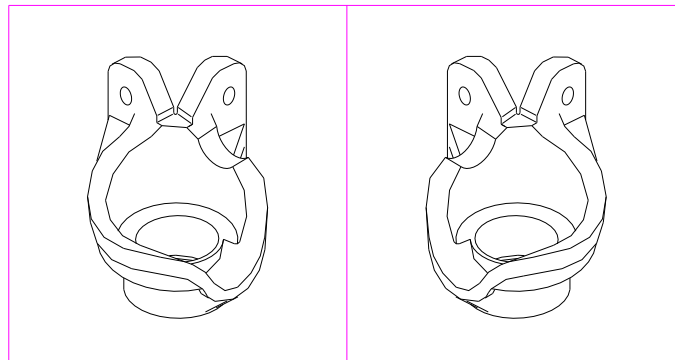


180° V-CAM

P/N 5573-1
1-3/8" RISE • LEFT HAND
MATERIAL: DUCTILE IRON

180° V-CAM

P/N 5572-1
1-3/8" RISE • RIGHT HAND
MATERIAL: DUCTILE IRON



180° V-CAM

P/N 5573-1-H • LEFT HAND
1-3/8" RISE W/ HOLD OPEN
MATERIAL: DUCTILE IRON

180° V-CAM

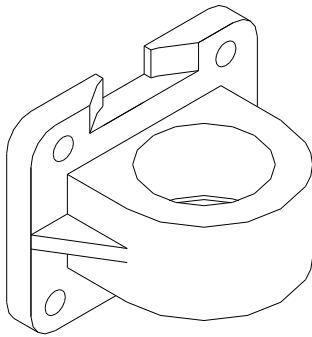
P/N 5572-1-H • RIGHT HAND
1-3/8" RISE W/ HOLD OPEN
MATERIAL: DUCTILE IRON

DURULITE DOOR HARDWARE FACTS SHEET

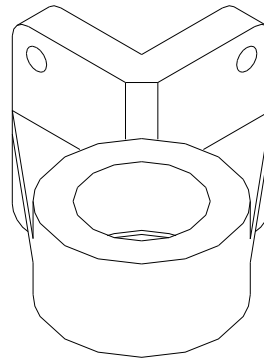
PILLOW BLOCK

The Pillow Block is the lower jamb hardware for the Durulite Door. The Pillow Block holds the lower Hinge Adapter Shaft in position, preventing horizontal movement of the door. Pillow Blocks are available for 90° or 180° hardware. The 90° and 180° Pillow Blocks are available in Ductile Iron and Stainless Steel materials. Pillow Blocks come equipped with a replaceable bushing, which holds the Hinge Adapter in place. An absorber pad lines the back of the Pillow Block, cushioning the shock of door movement. ***Welding of Pillow Blocks to frame voids the warranty.*** Weldplates are available through the factory.

DESCRIPTION	PART NO.	MATERIAL	FEATURES
Standard Pillow Block	5555-1	Ductile Iron or Stainless Steel	90° Pillow Block.
180° Pillow Block	5579-1 (left) 5579-1 (right)	Ductile Iron or Stainless Steel	180° Pillow Block, for use with 180° V-Cam.



90° PILLOW BLOCK
P/N 5555-1



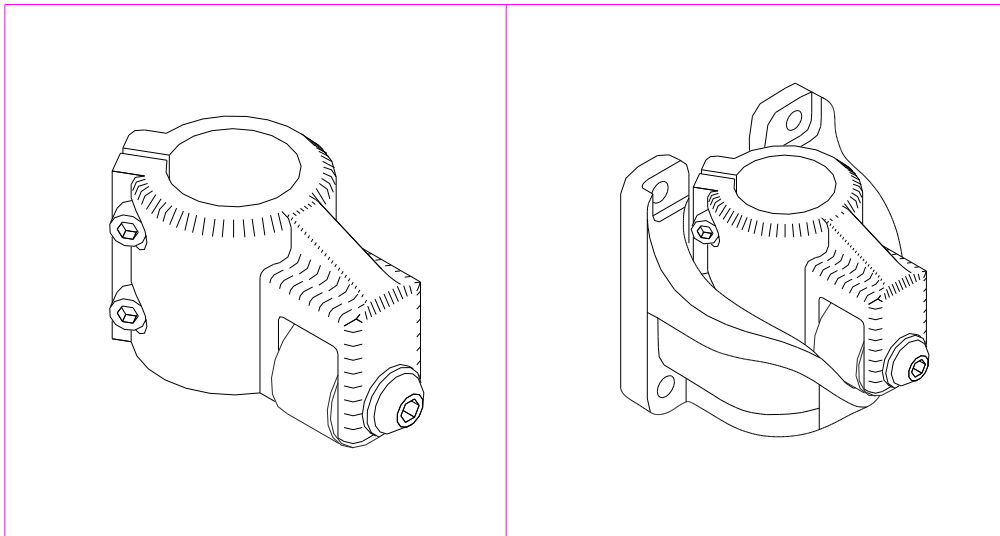
180° PILLOW BLOCK
P/N 5579-1

DURULITE DOOR HARDWARE FACTS SHEET

ROLLER ASSEMBLY

The Roller Assembly is positioned over the upper Hinge Adapter Shaft, and follows the V-Cam path as the door opens. The Roller Bearing supports the weight of the door and secures the door at the correct height limiting vertical movement. The V-Cam and Roller Assembly maintain the door in the closed position and provide rise as the door opens. The Roller Assembly, on industrial doors and doors with spring assist, is pinned through the upper Hinge Adapter Shaft. The housing material is cast aluminum alloy. The Roller is made of Bearing Steel with a black oxide coating and is also available in Stainless Steel. The Roller Assembly is standard hardware on the Durulite Door.

DESCRIPTION	PART NO.	MATERIAL	FEATURES
Roller Assembly	5508-1	Cast Aluminum Housing With Bearing Steel or Stainless Steel Roller Bearing	Roller Assembly Composed of Cast Aluminum Alloy Housing With A Roller Bearing Made Of Bearing Steel or Stainless Steel.



ROLLER ASSEMBLY
P/N 5508-1

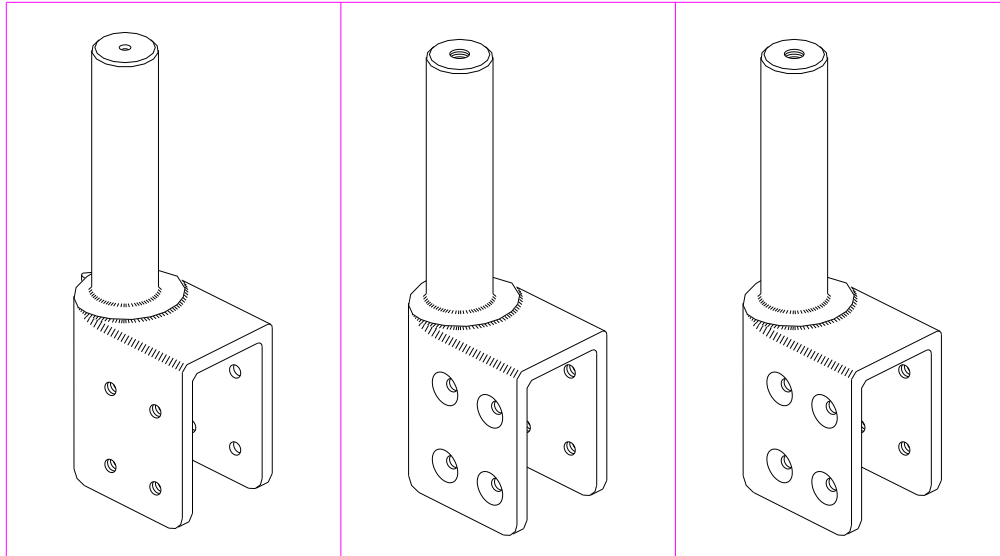
**ROLLER ASSEMBLY IN
90° V-CAM**

DURULITE DOOR HARDWARE FACTS SHEET

HINGE ADAPTER

Hinge Adapters attach to the upper and lower portions of the door panel. The Upper Hinge Adapter Shaft is inserted into the V-Cam. The Lower Hinge Adapter Shaft is inserted into the Pillow Block. The Hinge Adapter provides a pivot point for the door. Lower Hinge Adapters are threaded to receive the Spring Assist.

DESCRIPTION	PART NO.	MATERIAL	FEATURES
Upper Hinge Adapter	5510-1	Cast Aluminum Alloy	Upper Hinge Adapter. Standard Hardware.
Standard Lower Hinge Adapter	5510-3	Cast Aluminum Alloy	Lower Hinge Adapter. Used on all standard Durulite Doors. Threaded to receive the Spring Assist.
Industrial Lower Hinge Adapter	5550-1	Ductile Iron	Lower Hinge Adapter. Used on all industrial Durulite Doors. Threaded to receive the Spring Assist.



UPPER HINGE ADAPTER

P/N 5510-1
MATERIAL: ALUM. ALLOY

LOWER HINGE ADAPTER

P/N 5510-3
MATERIAL: ALUM. ALLOY

**INDUSTRIAL LOWER
HINGE ADAPTER**

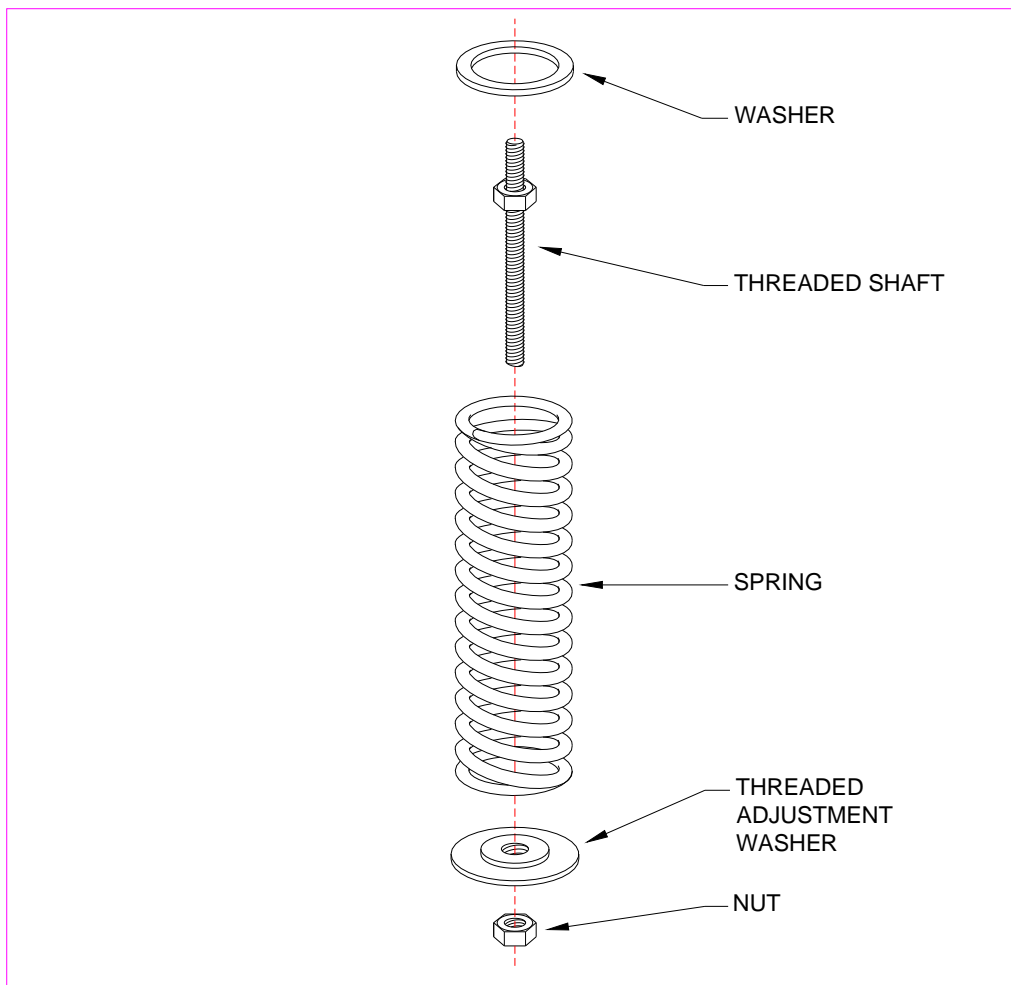
P/N 5550-1
MATERIAL: DUCTILE IRON

DURULITE DOOR HARDWARE FACTS SHEET

SPRING ASSIST

The Spring Assist consists of five replaceable parts. The Spring Assist threads into the Lower Hinge Adapter Shaft. The Spring Assist should be specified when doors are required to maintain the closed position, when there is a negative air pressure condition, or when a wind condition exists. The Spring Assist cannot be used with the Low-Rise or No-Rise hardware.

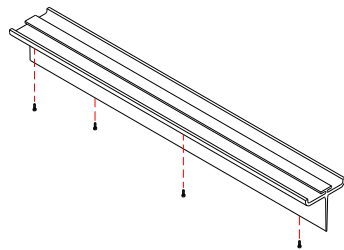
DESCRIPTION	PART NO.	MATERIAL	FEATURES
Spring Assist	5543	Steel Parts	Five-Part Spring Assist assembly composed of a Spring, Threaded Shaft, Washer, Threaded Adjustment Washer, and Nut. Assembly also includes Roll Pin for pinning the Roller to the Upper Hinge Adapter Shaft.



DURULITE DOOR HARDWARE FACTS SHEET

TOP SEAL

The Top Seal serves to seal the gap between the top of the door and the frame header. The Standard Rise V-Cam requires a minimum 2" gap between the top of the door panel and the frame header to operate. The Low Rise V-Cam requires a 1-1/2" gap. Top Seals are standard equipment on fully gasketed doors and are available on partially gasketed doors as an option.

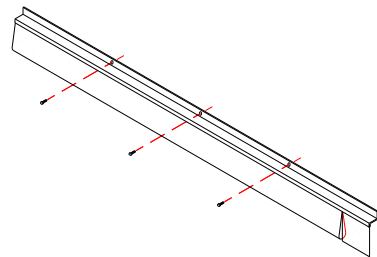


90° STANDARD TOP SEAL

THE 90 X 90° STANDARD TOP SEAL

consists of a 2-1/4" wide extruded PVC Top Seal Gasket. The Standard Top Seal mounts on the header and is used for gaps from 2" to 6".

FASTENERS: #12 X 1-1/2" TEK SCREWS
DRILL SIZE: 5/32"

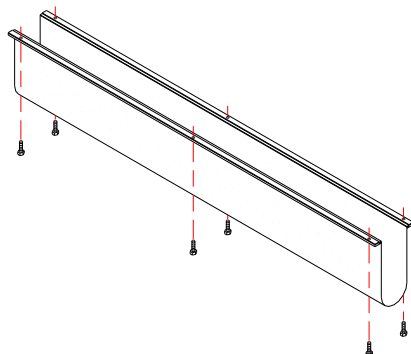


180° TOP SEAL

THE 180 X 90° STANDARD TOP SEAL

is made of flexible reinforced nylon with an aluminum mounting strip. The 180° Top Seal mounts to the face of the jamb above the header.

FASTENERS: #12 X 1-1/2" TEK SCREWS
DRILL SIZE: 5/32"



90° EXTENDED TOP SEAL

THE 90 X 90° EXTENDED TOP SEAL

consists of flexible reinforced nylon inserted into two aluminum mounting strips. It mounts on the header and is used for gaps larger than 6". It is also used for foam filled seals when extra insulation is required.

FASTENERS: #12 X 1-1/2" TEK SCREWS
DRILL SIZE: 5/32"

DURULITE DOOR HARDWARE FACTS SHEET

HINGE SEALS

Upper and Lower Hinge Seals wrap around the V-Cam and Pillow Block on Durulite Doors. Hinge Seals provide an improved seal and a finished appearance at the hinge areas. Upper and Lower Hinge Seals are standard items on fully gasketed doors.

On doors with 90° hardware and Lower Hinge Guards the Lower Hinge Seal is replaced by the Lower Hinge Guard.

180° hardware uses both a Lower Hinge Seal and a Lower Hinge Guard.

Hinge Seals are available on partially gasketed doors as an option.

90 X 90° LOWER HINGE SEALS are made of black, flexible reinforced nylon, with black aluminum mounting strips. Foam tape is applied to the aluminum mounting strips for temporary positioning prior to fastening. They are equipped with a foam strip along the inside center to provide greater rigidity.

Lower Hinge Seals are attached with 1/4" - 14 x 1" ST. ST. Tek Screws.

180 X 90° LOWER HINGE SEALS are made of flexible black PVC. Foam tape is applied to the inside face for temporary positioning prior to fastening.

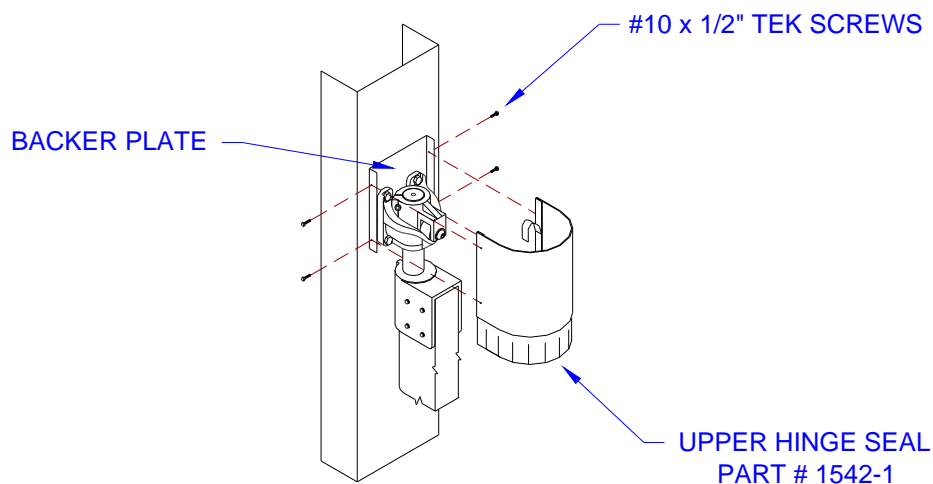
Lower Hinge Seals are attached with 1/4" - 14 x 1" ST. ST. Tek Screws.

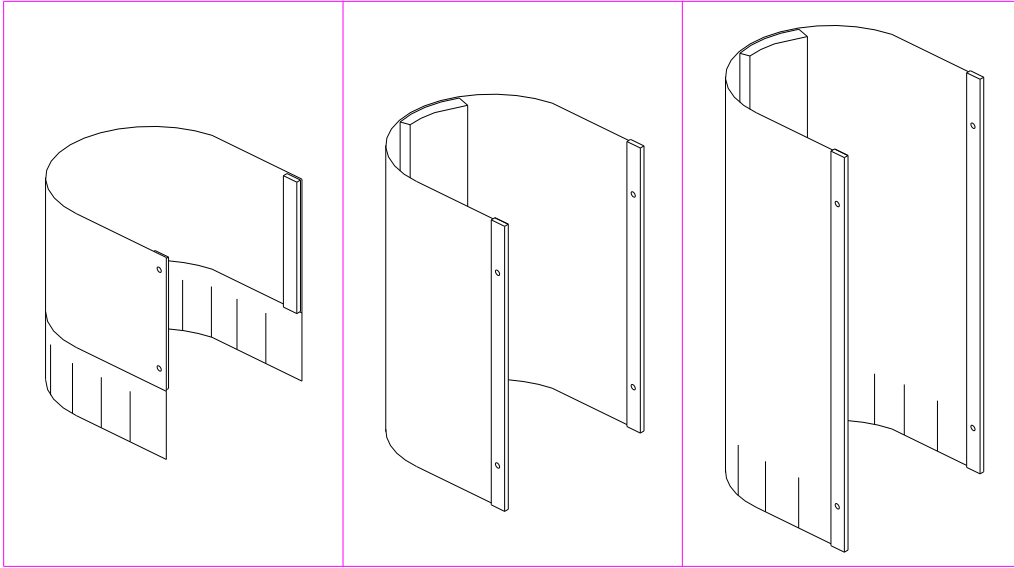
180 X 90° UPPER HINGE SEALS are made of black, flexible reinforced nylon, with black aluminum mounting strips. Foam tape is applied for temporary positioning prior to fastening.

Upper Hinge Seals are attached with 1/4" - 14 x 1" ST. ST. Tek Screws.

90 X 90° UPPER HINGE SEALS are made of flexible black PVC. Foam tape is applied for temporary positioning prior to fastening. The 90° Upper Hinge Seal is attached to a steel Backer Plate that mounts behind the V-Cam.

Upper Hinge Seals are attached to a Backer Plate with #10 x 1/2" Tek Screws.

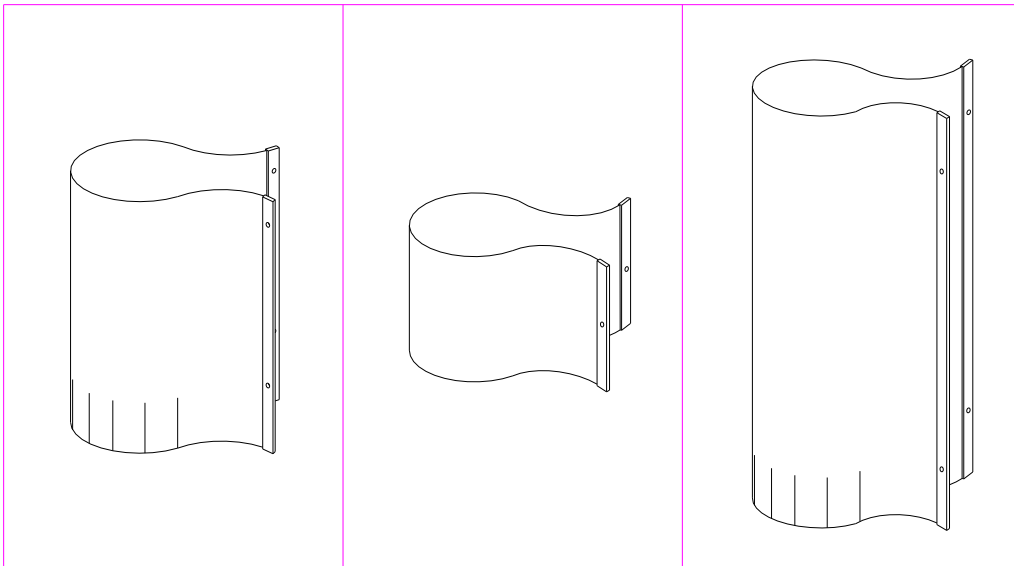




90° UPPER HINGE SEAL
P/N 1542-1

90° LOWER HINGE SEAL
P/N 1536-1

90° DUTCH DOOR HINGE SEAL
P/N 1540-1



180° UPPER HINGE SEAL
P/N 1554-1

180° LOWER HINGE SEAL
P/N 1531-1

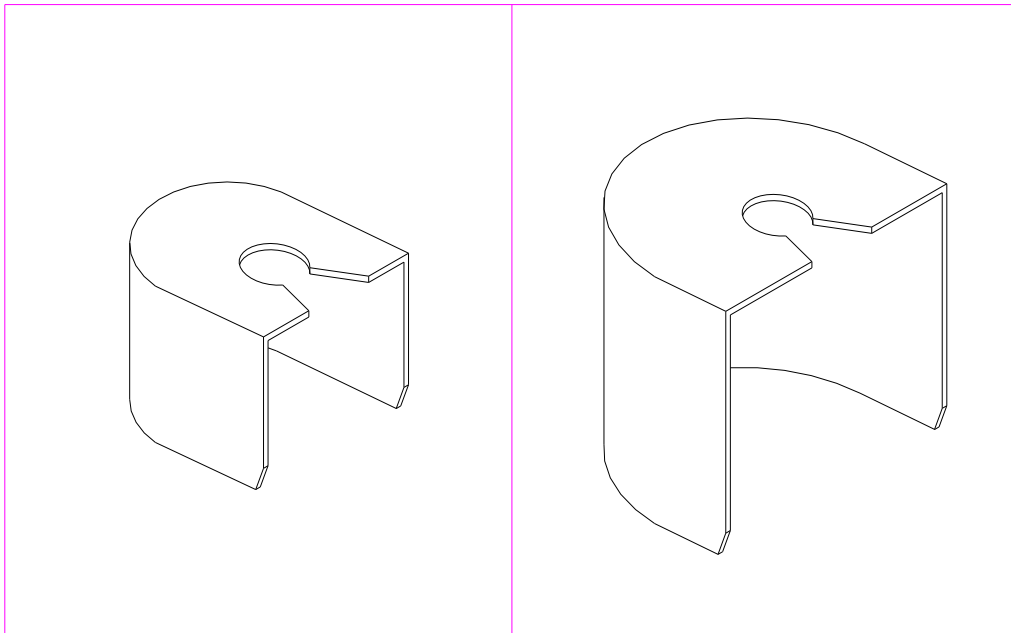
180° DUTCH DOOR HINGE SEAL
P/N 1553-1

DURULITE DOOR HARDWARE FACTS SHEET

SOLID RISER

The Solid Riser is an accessory of the Hinge Seal system which provides a rigid surface for the more flexible types of Hinge Seals to wrap around. Solid Risers are made of black polyethylene. The Solid Riser snaps onto the Hinge Adapter Shaft between the Hinge Adapter and the V-Cam on the upper hardware and between the Hinge Adapter and the Pillow Block on the lower hardware.

On doors with 90° X 90° hardware a Solid Riser is provided if the door receives a Standard Lower Hinge Guard or a Lower Hinge Seal. On doors with 180° X 90° hardware a Solid Riser is provided for the Upper Hinge Seal.



90° X 90° SOLID RISER

P/N 1548

180° X 90° SOLID RISER

P/N 1547

DURULITE DOOR HARDWARE FACTS SHEET

LOWER HINGE GUARD

STANDARD LOWER HINGE GUARD

Designed for use with 90° hardware. Provides protection of hardware from pedestrian traffic. Normally ordered with standard Durulite Doors. Requires 3-1/2" minimum jamb width for installation. Available in Polyethylene or Aluminum. Designed to cover Lower Hinge Adapter shaft. Standard Lower Hinge Guard is installed below Pillow Block, and fastens to inside face of jamb.

INDUSTRIAL LOWER HINGE GUARD

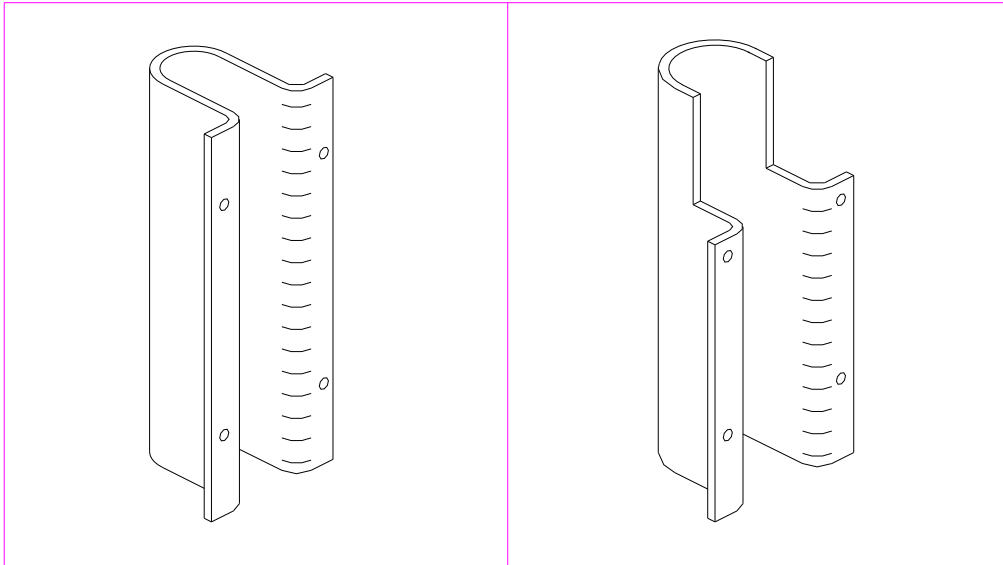
Designed for use with 90° hardware. Provides protection of hardware from vehicular and cart traffic. Normally ordered with industrial Durulite Doors, or with doors receiving Spring Assist. Requires a 5-1/2" minimum jamb width for installation. Available in Polyethylene or Aluminum. Designed to cover Pillow Block and Lower Hinge Adapter Shaft. Fastens to inside face of jamb.

180° LOWER HINGE GUARD

Designed for use with 180° hardware. Provides protection of hardware from vehicular and cart traffic. Available in Polyethylene. Designed to cover Pillow Block and Lower Hinge Adapter Shaft. Fastens to corner of jamb.

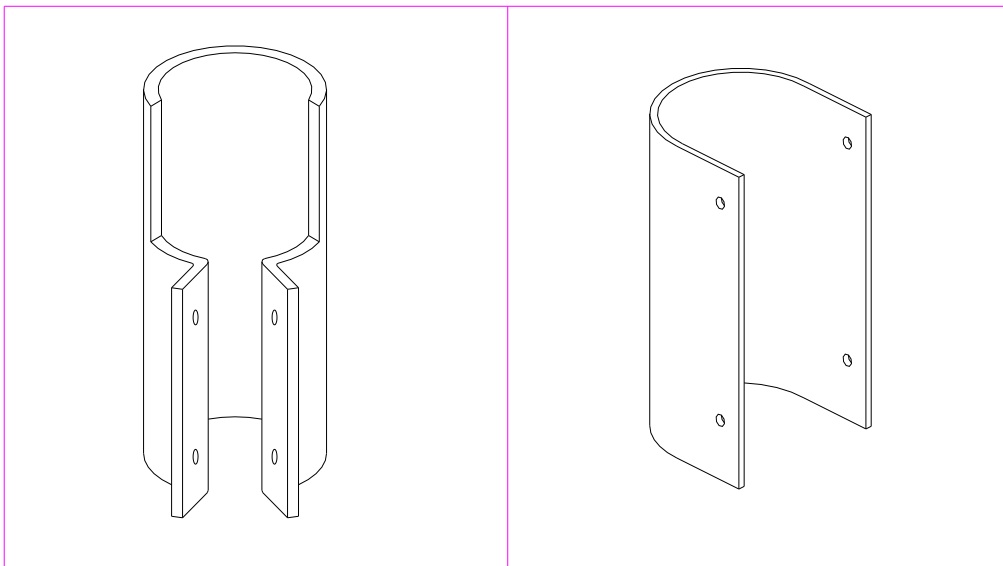
WRAPAROUND LOWER HINGE GUARD

Designed for doors with jamb widths of 4" - 4-1/2". Available in 10 gauge galvanized steel only. For use with Spring Assist. Fastens to outside face of jamb.



**STANDARD LOWER
HINGE GUARD**
MATERIAL: POLYETHYLENE
or EXTRUDED ALUMINUM

**INDUSTRIAL LOWER
HINGE GUARD**
MATERIALS: POLYETHYLENE
or EXTRUDED ALUMINUM



**180° LOWER
HINGE GUARD**
MATERIAL: POLYETHYLENE

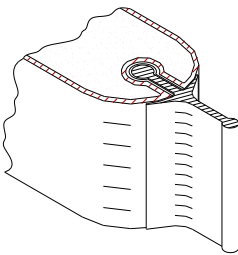
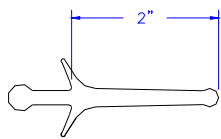
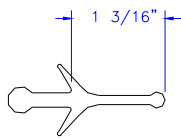
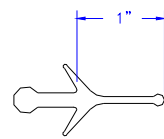
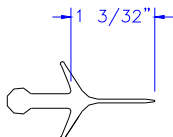
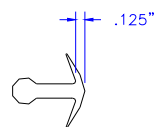
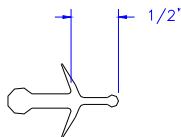
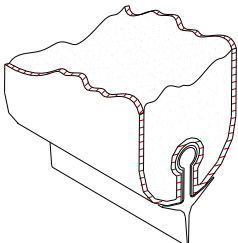
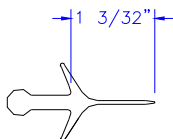

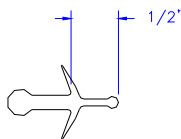
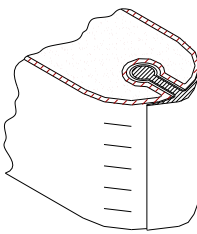
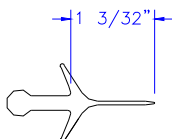

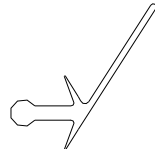
**WRAPAROUND LOWER
HINGE GUARD**
MATERIAL: GALVANIZED
STEEL

DURULITE DOOR HARDWARE FACTS SHEET

GASKETING

The Durulite Door comes equipped with replaceable gasketing along the leading, back and bottom edges. This gasketing is retained in the door by a molded-in aluminum keyway. Gaskets are secured in the door without the use of fasteners of any kind. Gaskets are made of 55-80 Durometer extruded black santoprene. All gaskets are made with winged sides which seal the rounded edges of the door.

By varying the leading edge gasket, nominal double door openings may be increased by up to two inches, or reduced by one inch. Nominal single doors can be increased by up to one inch, or reduced by 1/2". Fully gasketed doors come equipped with a blade type gasket on the leading edge. Back and bottom edges are normally sealed with the 1560 blade gasket. Back and bottom edges may also be equipped with a 1559 bullnose gasket (for use in partially gasketed applications), which does not seal the door along these edges.

			
	1535 GASKET	1558 GASKET	1545 GASKET
			
LEADING EDGE GASKET	1560 GASKET	1559 GASKET	1546 GASKET
			
BOTTOM GASKET	1560 GASKET	1559 GASKET	1546 GASKET
			
BACK GASKET	1560 GASKET	1559 GASKET	1561 GASKET

DURULITE DOOR HARDWARE FACTS SHEET

WINDOWS

Durulite Doors are equipped with molded-in window openings with a recessed area to accommodate the glazing and frame. Glazing in the door is 1/8" polycarbonate. Durulite Doors are available with single or double glazing. Black aluminum frames are available for either single or double glazing.

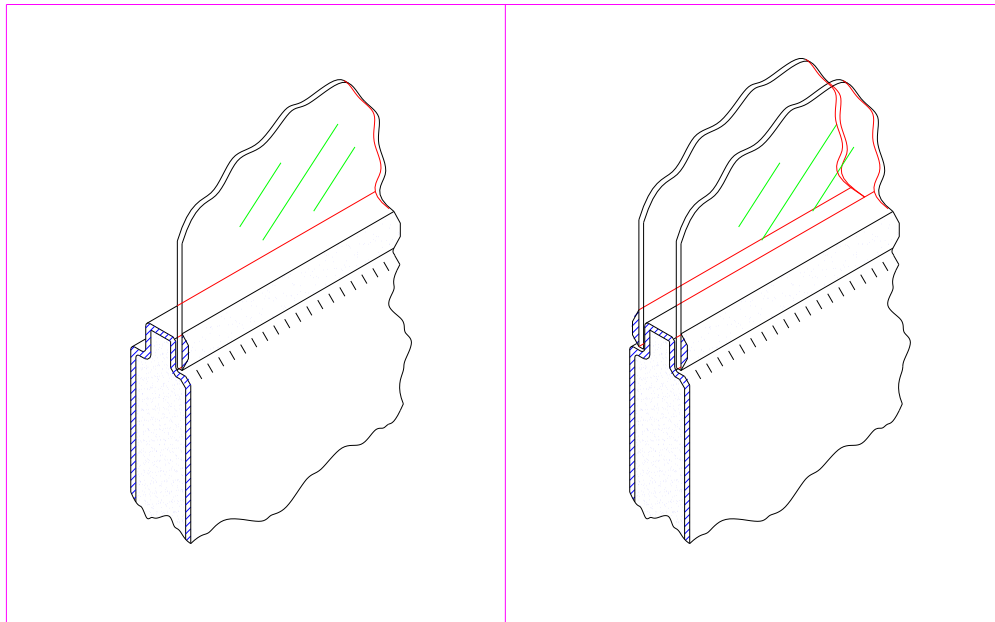
The window bottom is typically located 45" above the bottom of the door. Window widths vary with panel widths.

PANEL SIZE

24" & 27"
30"
32"
34"
36", 39-1/2", 42" & 48"
54" & 60"

WINDOW SIZE (Width and Height)

10-1/2" X 22-1/2"
14-1/2" X 22-1/2"
16-1/2" X 22-1/2"
18-1/2" X 22-1/2"
20-1/2" X 22-1/2"
22-1/2" X 22-1/2"



SINGLE PANE WINDOW

DOUBLE PANE WINDOW

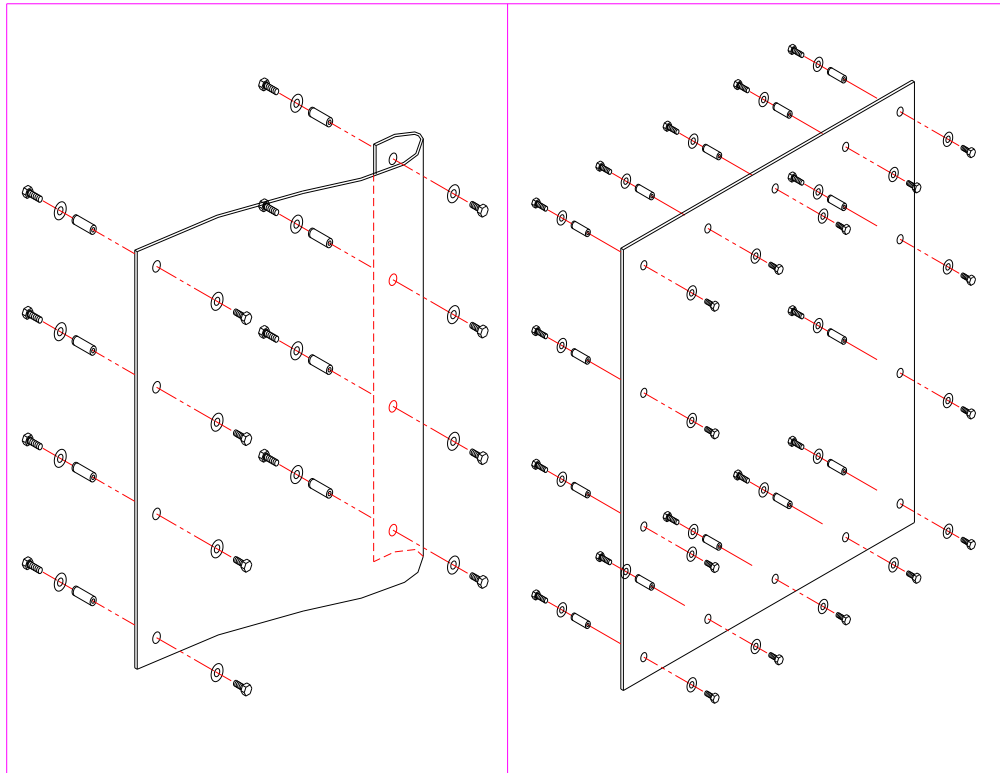
DURULITE DOOR HARDWARE FACTS SHEET

BUMPERS

Durulite Doors are available with 1/4" thickness crosslink polyethylene teardrop Bumpers. Standard and industrial versions are available. Standard Bumpers provide a 3" projection at the curl, and are available on panel sizes ranging from 24" to 39-1/2". Industrial Bumpers provide a 4" projection at the curl, and are available on all panel sizes. Bumpers are available in nominal heights of 6", 12", 18", 24", 36", 38", and 42", and should be ordered to accommodate the application. Bumper widths vary with panel width. Bumpers are recommended for any application with cart or vehicular traffic. Bumpers are bolted to the door into threaded inserts. Bumpers are available in the same color choices as the door.

KICKPLATES

Durulite Doors are available with 1/4" thickness polyethylene or 18 GA. stainless steel Kickplates. Polyethylene Kickplates are available in nominal heights of 6", 12", 18", 24", 30", 36", and 42". Stainless steel Kickplates are available in nominal heights of 6", 12", 18", 24", 36" and 42". Kickplate widths vary with panel width. Kickplates are primarily designed to protect the surface of the door from wear do to pedestrian traffic. Kickplates are bolted to the door into threaded inserts. Polyethylene Kickplates are available in the same color choices as the door.



BUMPER ASSEMBLY
MATERIAL: POLYETHYLENE

KICKPLATE ASSEMBLY
MATERIAL: POLYETHYLENE/
STAINLESS STEEL

DURULITE DOOR BUMPER SIZES

STANDARD BUMPERS

(Dimensions shown have a tolerance of $\pm 1/4"$. Dimensions in width are from outside of curl to opposite edge.)

<u>NOMINAL SIZE</u>	<u>ACTUAL SIZE</u>
<i>HT. X DOOR WIDTH</i>	<i>HT. X BUMPER WIDTH</i>
6 X 24	7-3/4" X 18-1/4"
6 X 27	7-3/4" X 21-1/4"
6 X 30	7-3/4" X 24-1/4"
6 X 32	7-3/4" X 26-1/4"
6 X 34	7-3/4" X 27-1/4"
6 X 36	7-3/4" X 30-1/2"
12 X 24	13" X 18-1/4"
12 X 27	13" X 21-1/4"
12 X 30	13" X 24-1/4"
12 X 32	13" X 26-1/4"
12 X 34	13" X 27-1/4"
12 X 36	13" X 30-1/2"
18 X 24	18-5/8" X 18-1/4"
18 X 27	18-5/8" X 21-1/4"
18 X 30	18-5/8" X 24-1/4"
18 X 32	18-5/8" X 26-1/4"
18 X 34	18-5/8" X 27-1/4"
18 X 36	18-5/8" X 30-1/2"
24 X 24	24-3/8" X 18-1/4"
24 X 27	24-3/8" X 21-1/4"
24 X 30	24-3/8" X 24-1/4"
24 X 32	24-3/8" X 26-1/4"
24 X 34	24-3/8" X 27-1/4"
24 X 36	24-3/8" X 30-1/2"
36 X 24	36" X 18-1/4"
36 X 27	36" X 21-1/4"
36 X 30	36" X 24-1/4"
36 X 32	36" X 26-1/4"
36 X 34	36" X 27-1/4"
36 X 36	36" X 30-1/2"
42 X 24	42" X 18-1/4"
42 X 27	42" X 21-1/4"
42 X 30	42" X 24-1/4"
42 X 32	42" X 26-1/4"
42 X 34	42" X 27-1/4"
42 X 36	42" X 30-1/2"
48 X 24	48" X 18-1/4"
48 X 27	48" X 21-1/4"
48 X 30	48" X 24-1/4"
48 X 32	48" X 26-1/4"
48 X 34	48" X 27-1/4"
48 X 36	48" X 30-1/2"

INDUSTRIAL BUMPERS

(Dimensions shown have a tolerance of $\pm 1/4"$. Dimensions in width are from outside of curl to opposite edge.)

<u>NOMINAL SIZE</u>	<u>ACTUAL SIZE</u>
<i>HT. X DOOR WIDTH</i>	<i>HT. X BUMPER WIDTH</i>
6 X 36	7-3/4" X 31"
6 X 39.5*/42	7-3/4" X 35"
6 X 48/54/60	7-3/4" X 41"
12 X 36	13" X 31"
12 X 39.5*/42	13" X 35"
12 X 48/54/60	13" X 41"
18 X 36	18-5/8" X 31"
18 X 39.5*/42	18-5/8" X 35"
18 X 48/54/60	18-5/8" X 41"
24 X 36	24-3/8" X 31"
24 X 39.5*/42	24-3/8" X 35"
24 X 48/54/60	24-3/8" X 41"
36 X 36	36" X 31"
36 X 39.5*/42	36" X 35"
36 X 48/54/60	36" X 41"
38 X 36	38" X 31"
38 X 39.5*/42	38" X 35"
38 X 48	38" X 41"
42 X 36	42" X 31"
42 X 39.5*/42	42" X 35"
42 X 48/54/60	42" X 41"
48 X 36	48" X 31"
48 X 39.5*/42	48" X 35"
48 X 48/54/60	48" X 41"

* 39.5" DOORS MATCHED WITH 36" DOORS RECEIVE 36" DOOR SIZE BUMPERS.

DURULITE DOOR KICKPLATE SIZES

POLYETHYLENE KICKPLATES

(Dimensions shown have a tolerance of $\pm 1/4"$.)

NOMINAL SIZE

HT. X DOOR WIDTH

ACTUAL SIZE

HT. X KICKPLATE WIDTH

6 X 24	8-3/4" X 16-3/4"
6 X 27	8-3/4" X 18-3/4"
6 X 30	8-3/4" X 23-1/4"
6 X 32/34	8-3/4" X 25-1/4"
6 X 36	8-3/4" X 29-3/4"
6 X 42	8-3/4" X 31-3/4"
6 X 48/54/60	8-3/4" X 38-3/8"
12 X 24	15-1/2" X 16-3/4"
12 X 27	15-1/2" X 18-3/4"
12 X 30	15-1/2" X 23-1/4"
12 X 32/34	15-1/2" X 25-1/4"
12 X 36	15-1/2" X 29-3/4"
12 X 42	15-1/2" X 31-3/4"
12 X 48/54/60	15-1/2" X 38-3/8"
18 X 24	22-1/4" X 16-3/4"
18 X 27	22-1/4" X 18-3/4"
18 X 30	22-1/4" X 23-1/4"
18 X 32/34	22-1/4" X 25-1/4"
18 X 36	22-1/4" X 29-3/4"
18 X 42	22-1/4" X 31-3/4"
18 X 48/54/60	22-1/4" X 38-3/8"
24/30 X 24	29" X 16-3/4"
24/30 X 27	29" X 18-3/4"
24/30 X 30	29" X 23-1/4"
24/30 X 32/34	29" X 25-1/4"
24/30 X 36	29" X 29-3/4"
24/30 X 42	29" X 31-3/4"
24/30 X 48/54/60	29" X 38-3/8"
36 X 24	35-3/4" X 16-3/4"
36 X 27	35-3/4" X 18-3/4"
36 X 30	35-3/4" X 23-1/4"
36 X 32/34	35-3/4" X 25-1/4"
36 X 36	35-3/4" X 29-3/4"
36 X 42	35-3/4" X 31-3/4"
36 X 48/54/60	35-3/4" X 38-3/8"
42 X 24	42-1/2" X 16-3/4"
42 X 27	42-1/2" X 18-3/4"
42 X 30	42-1/2" X 23-1/4"
42 X 32/34	42-1/2" X 25-1/4"
42 X 36	42-1/2" X 29-3/4"
42 X 42	42-1/2" X 31-3/4"
42 X 48/54/60	42-1/2" X 38-3/8"

STAINLESS STEEL KICKPLATES

NOMINAL SIZE

HT. X DOOR WIDTH

ACTUAL SIZE

HT. X KICKPLATE WIDTH

12 X 24	15" X 15-3/4"
12 X 27	15" X 16-3/4"
12 X 30	15" X 22-3/8"
12 X 32/34	15" X 23-3/8"
12 X 36	15" X 29"
12 X 39.5/42	15" X 30"
12 X 48	15" X 36-5/8"
12 X 54	15" X 43-1/4"
12 X 60	15" X 49-7/8"
18 X 24	21-3/4" X 15-3/4"
18 X 27	21-3/4" X 16-3/4"
18 X 30	21-3/4" X 22-3/8"
18 X 32/34	21-3/4" X 23-3/8"
18 X 36	21-3/4" X 29"
18 X 39.5/42	21-3/4" X 30"
18 X 48	21-3/4" X 36-5/8"
18 X 54	21-3/4" X 43-1/4"
18 X 60	21-3/4" X 49-7/8"
24 X 24	28-1/2" X 15-3/4"
24 X 27	28-1/2" X 16-3/4"
24 X 30	28-1/2" X 22-3/8"
24 X 32/34	28-1/2" X 23-3/8"
24 X 36	28-1/2" X 29"
24 X 39.5/42	28-1/2" X 30"
24 X 48	28-1/2" X 36-5/8"
24 X 54	28-1/2" X 43-1/4"
24 X 60	28-1/2" X 49-7/8"
36 X 24	35-1/4" X 15-3/4"
36 X 27	35-1/4" X 16-3/4"
36 X 30	35-1/4" X 22-3/8"
36 X 32/34	35-1/4" X 23-3/8"
36 X 36	35-1/4" X 29"
36 X 39.5/42	35-1/4" X 30"
36 X 48	35-1/4" X 36-5/8"
36 X 54	35-1/4" X 43-1/4"
36 X 60	35-1/4" X 49-7/8"
42 X 24	42" X 15-3/4"
42 X 27	42" X 16-3/4"
42 X 30	42" X 22-3/8"
42 X 32/34	42" X 23-3/8"
42 X 36	42" X 29"
42 X 39.5/42	42" X 30"
42 X 48	42" X 36-5/8"
42 X 54	42" X 43-1/4"
42 X 60	42" X 49-7/8"

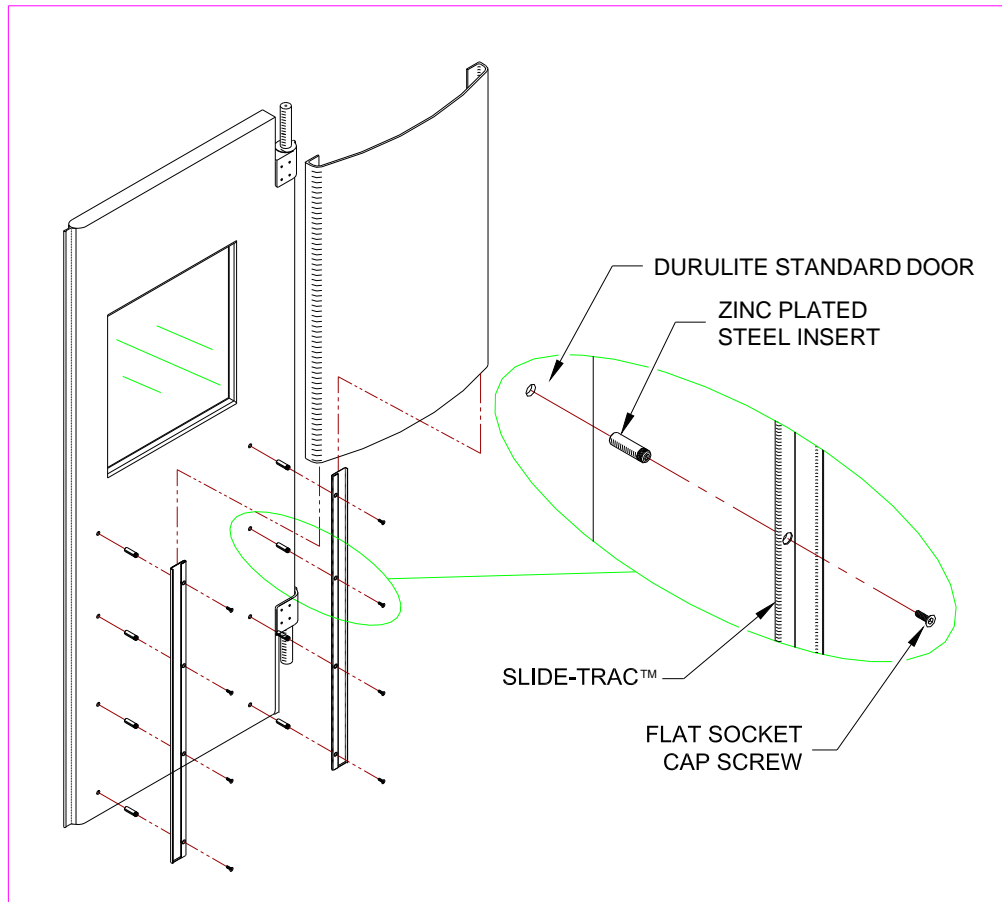
DURULITE DOOR HARDWARE FACTS SHEET

THE REVOLUTIONARY SLIDE-TRAC™ BUMPER

Durulite Standard Doors (see NOTE below) may be equipped with the Slide-Trac™ Bumper. This unique bumper not only protects your door but is a great place to show your logo or other graphics. Graphics are applied using a molded in process which actually pulls the graphic into the polyethylene material of the bumper. This creates an extremely strong and durable graphic that won't peel or fade.

The Slide-Trac™ Bumper is mounted to the door using a stainless steel track system. The track is bolted to steel inserts which are pressed into the door. There is one track on the leading edge and one track on the back edge of each side of the door. You then slide the bumper down to the bottom of the tracks. This allows a customer to swap bumpers to show seasonal specials, advertisements, and even show off products or services.

NOTE: The Slide-Trac™ Bumper is **NOT** intended for use in industrial applications and should **NOT** be mounted on a Durulite Industrial Door.



**SLIDE-TRAC™ BUMPER
ASSEMBLY**
MATERIAL: POLYETHYLENE
WITH STAINLESS STEEL TRACKS

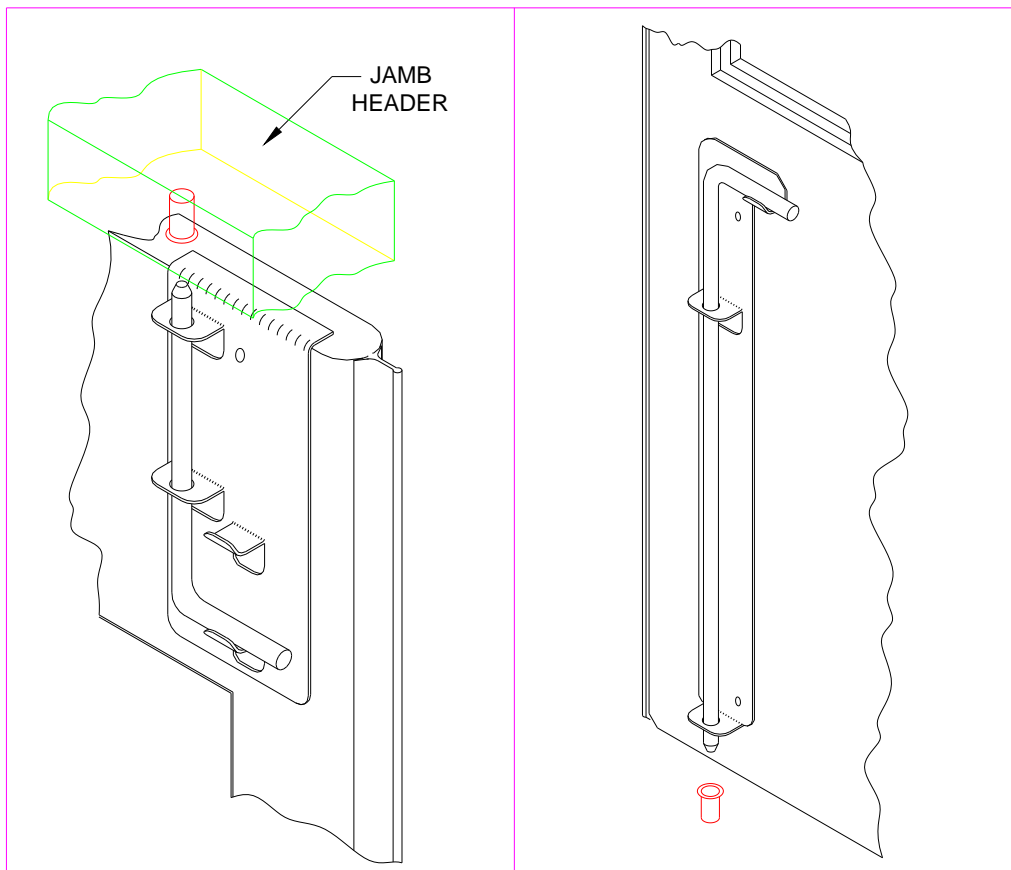
DURULITE DOOR HARDWARE FACTS SHEET

CANE BOLTS

Upper and Lower Steel Cane Bolts are available on the Durulite Door. Cane Bolts act to secure the door, making it accessible from one side only. Cane Bolts in the closed position are recessed into holes or keepers in the frame header and the floor.

Upper Cane Bolts are recommended for use on door heights up to a maximum of 96". 12" Upper Cane Bolts are specified on door heights of 78" through 84", 18" Cane Bolts are specified on 90" and 96" door heights. Cane Bolts are not recommended on taller doors due to difficulty in reaching them. The Upper Cane Bolt cannot be used when the gap between the top of the door and the jamb header exceeds 2".

Lower Cane Bolts are designed to operate behind Bumpers. Lower Cane Bolts are available in lengths of 12", 18", 24", 36", and 42". The length of the Cane Bolt ordered should match the height of the Bumper. Use of Lower Cane Bolts without Bumpers is not recommended due to the possibility of personal injury.



UPPER CANE BOLT

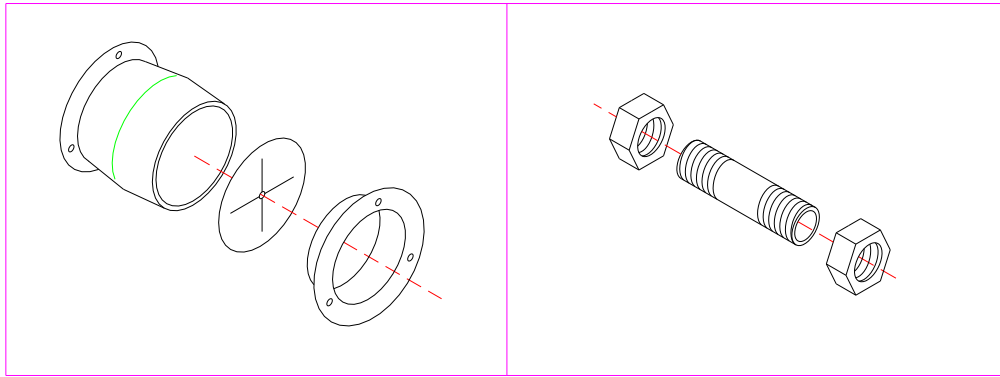
LOWER CANE BOLT

DURULITE DOOR HARDWARE FACTS SHEET

LOCKING DEVICES

2" LOCK SLEEVE

A 2" inside diameter stainless steel Lock Sleeve is available on the Durulite Door. It is intended primarily for use with double doors. The 2" Lock Sleeve provides its own inner seal and is fastened on each side of the door with three stainless steel screws. It is placed approximately 42" above the bottom of the door and 4" in from the leading edge. It is designed for use with a cable or chain type lock. The 2" Lock Sleeve is required on all 200 Series doors. This lock cannot be used on doors equipped with 42" Bumpers.

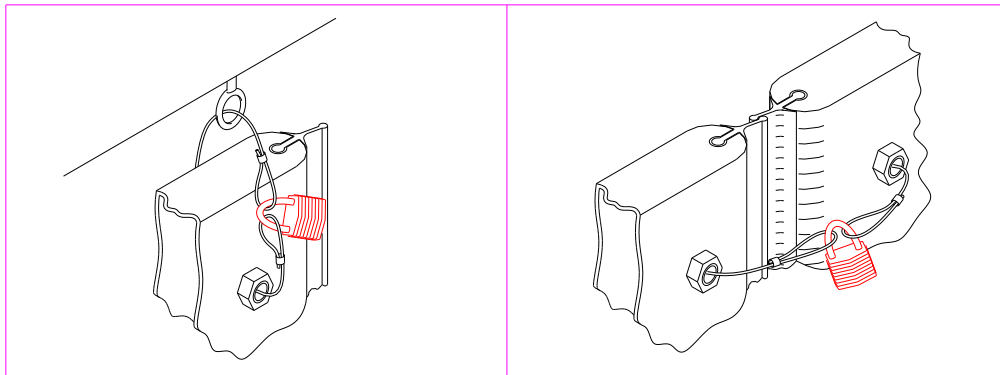


**2" LOCKING DEVICE
ASSEMBLY**

**1/2" LOCKING DEVICE
ASSEMBLY**

1/2" LOCK SLEEVE

A 1/2" inside diameter galvanized Lock Sleeve with a wire rope is available on the Durulite Door. The 1/2" Lock Sleeve is threaded on both ends and finished with end caps. The 1/8" diameter wire rope cable is looped on both ends to accommodate a padlock. The Lock Sleeve is available on either single or double doors. The cable lock on single doors is 10-1/2" long, and on double doors is 21" long. The 1/2" Lock Sleeve is placed 2" down from the top of the door on single doors, and 17" down from the top on double doors. Both Sleeves are placed 3" in from the leading edge. No seal is provided on the 1/2" Lock Sleeve.



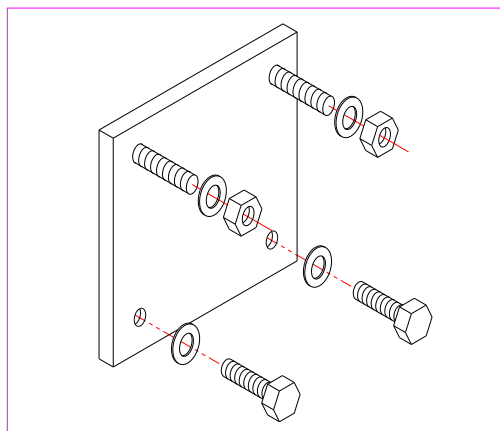
**1/2" LOCKING DEVICE
IN SINGLE DOOR**

**1/2" LOCKING DEVICE
IN DOUBLE DOOR**

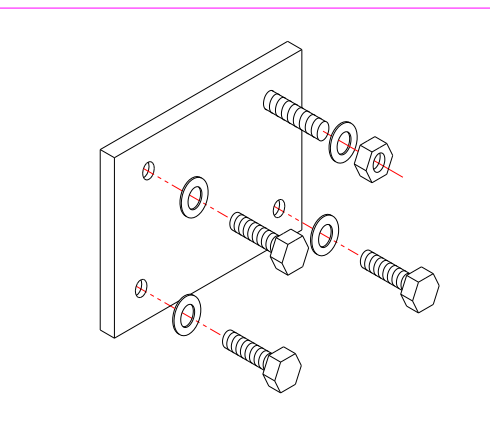
DURULITE DOOR HARDWARE FACTS SHEET

WELD PLATES

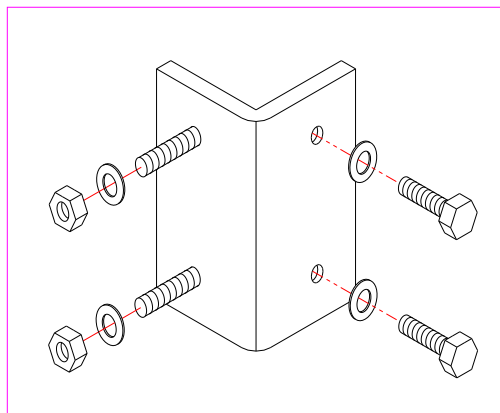
Weld Plates for 90° and 180° hardware are available on the Durulite Door. Weld Plates are designed for ease of installation and for applications where it is not possible or practical to drill and tap into the frame. Weld Plates are made of 1/4" mild steel plate, and are designed to be welded to metal frames. They are fabricated to fit behind the V-Cam and Pillow Block. Weld Plates are pre-drilled and pre-tapped for either tamper-pruf fasteners or grade 8 bolts. They come assembled with press-in studs to assist in the initial positioning of the hardware. The Weld Plate assembly comes complete with fasteners. Weld Plates have the effect of reducing the finished opening size 1/4" per panel.



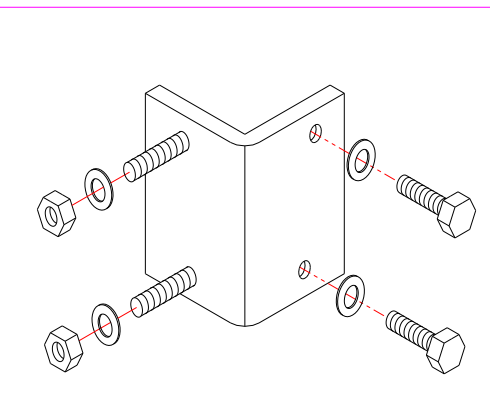
90° V-CAM WELD PLATE



90° PILLOW BLOCK WELD PLATE



180° V-CAM WELD PLATE



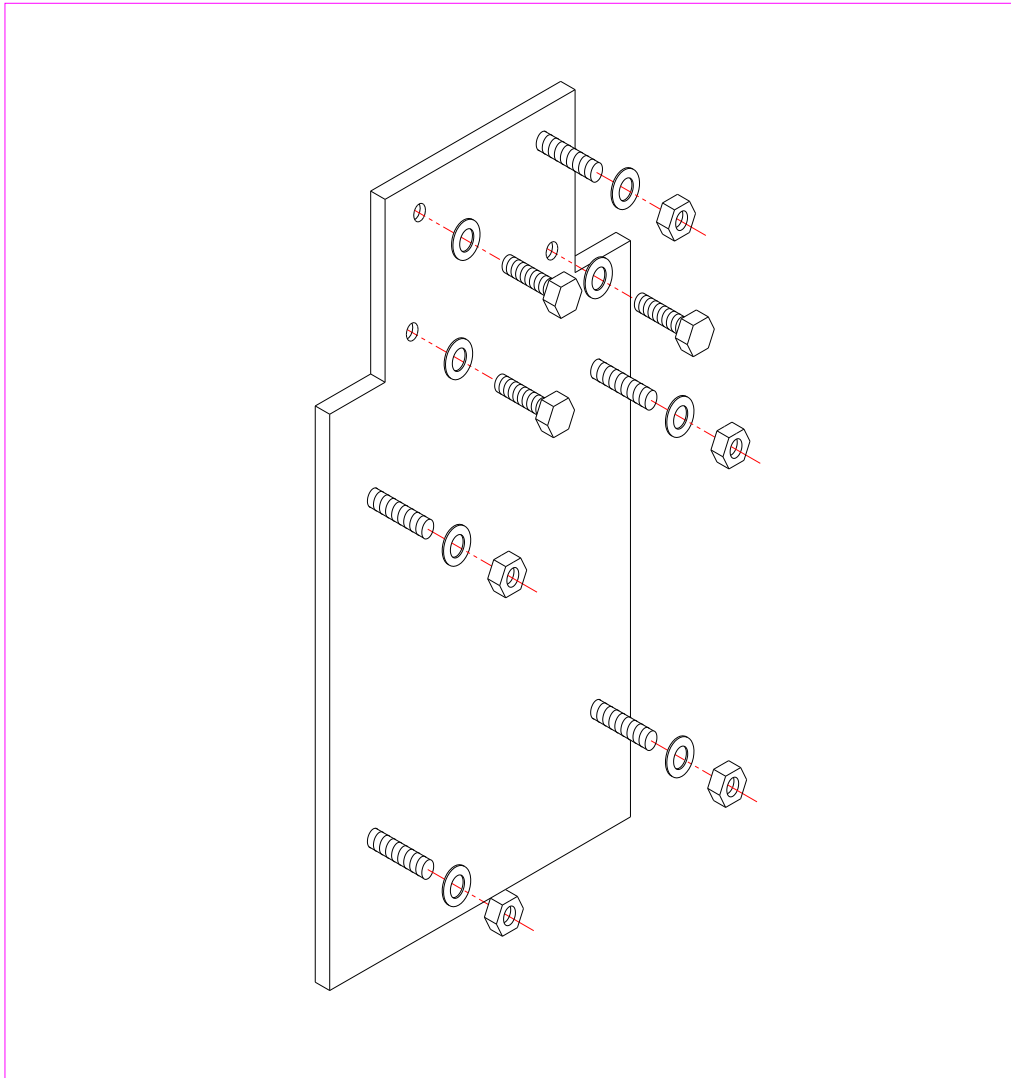
180° PILLOW BLOCK WELD PLATE

DURULITE DOOR HARDWARE FACTS SHEET

90° PILLOW BLOCK INDUSTRIAL WELD PLATE

The Pillow Block Industrial Weld Plate is made of 1/4" thick mild steel. It provides the same ease of installation as the standard Pillow Block Weld Plate and it is equipped with an additional four pressed in studs to mount the Industrial Lower Hinge Guard without drilling.

The Pillow Block Industrial Weld Plate **requires a minimum 5-1/2" jamb width** for installation.

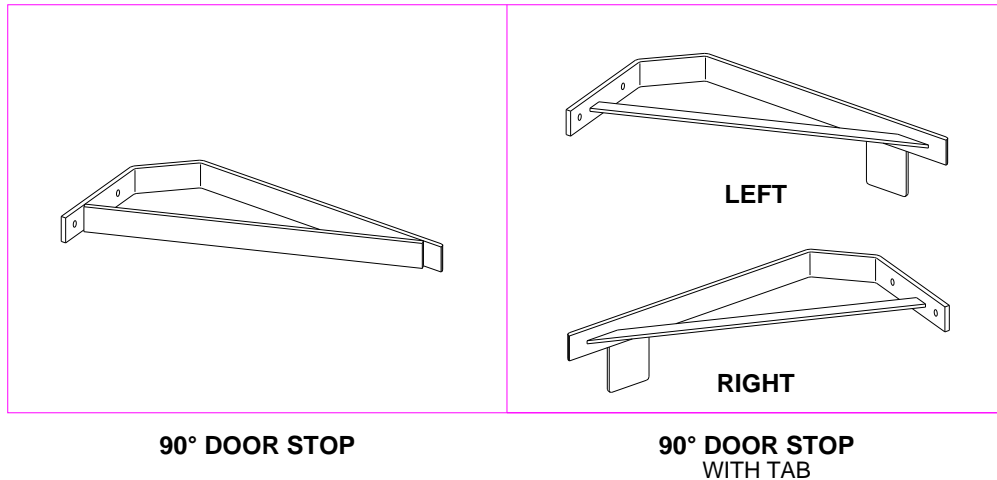


**90° PILLOW BLOCK
INDUSTRIAL WELD PLATE**

DURULITE DOOR HARDWARE FACTS SHEET

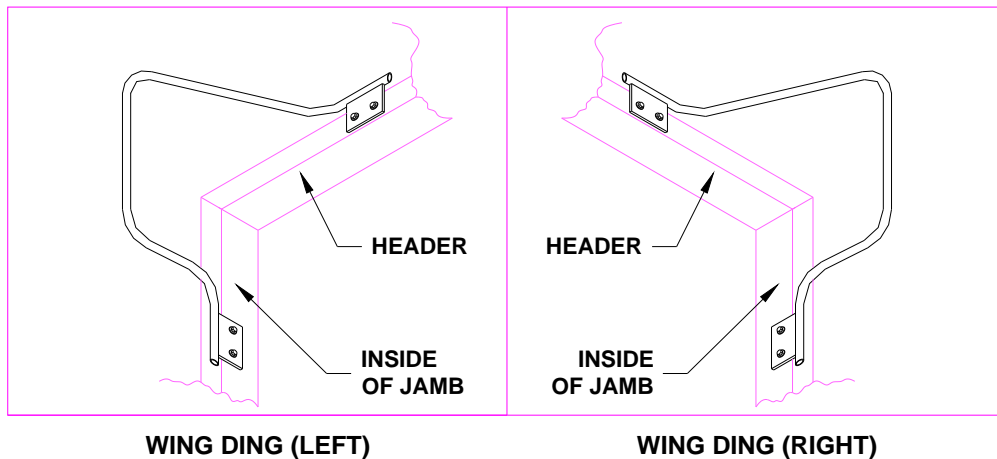
DOOR STOPS

Durus offers black steel Door Stops for the Durulite Door for applications where Limiting Posts are not practical or desirable. Door Stops are available for 90° hardware and are equipped with replaceable rubber contact pads. Door Stops with tabs may be used in applications where the Door Stop must be mounted above the door. Door Stops are suitable for any size door panel. Fasteners are not included due to variety of wall materials.



WING DINGS

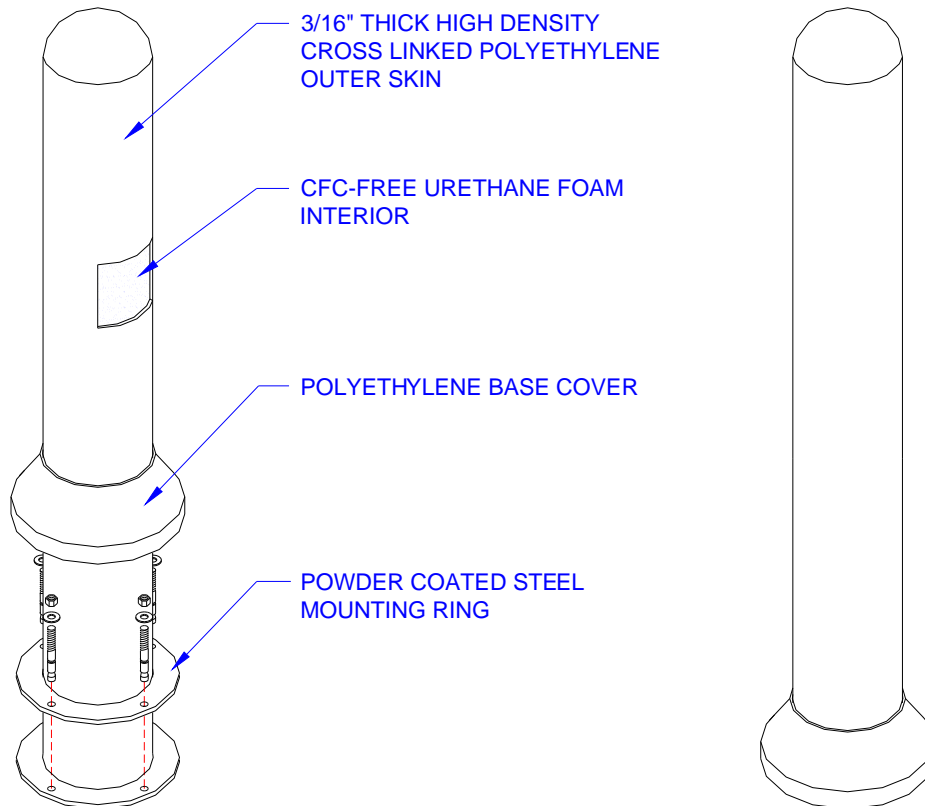
Wing Dings are a tubular steel Door Stop with a 1" I.D. and a 1-1/4" O.D. Wing Dings should be used on taller doors in a situation where head clearance from pedestrian traffic is not an issue.



DURULITE DOOR HARDWARE FACTS SHEET

LIMITING POSTS

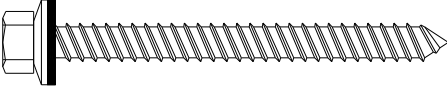
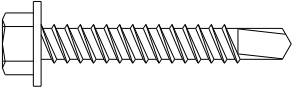
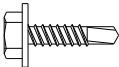
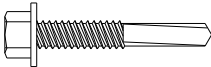
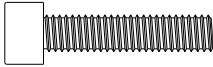
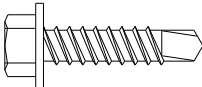
Polyethylene Limiting Posts may be used as door stops on Durulite Doors. The Durulite Limiting Post is 42" high and 5-1/4" in diameter. The outer skin of the Limiting Post is 3/16" thick. The inside of the Limiting post is filled with Non-CFC Urethane Foam. The bottom of the Limiting Post is flanged to a diameter of 7-3/4". The bottom flange and a powder coated steel ring provide the mounting surface for four 3/8" X 3" concrete wedge anchors. A 3-1/2" high, 8-1/4" diameter polyethylene base cover is provided to protect and conceal the mounting hardware.



LIMITING POSTS

DURULITE DOOR HARDWARE FACTS SHEET

FASTENERS

FASTENER TYPE	USES
<p>FOR WOOD JAMBS</p> <p>1/4" X 3" St. St. Hex Head Hardware Screw W/ 1/4" St. St. Washer & Neoprene Gasket.</p> <p>Drill Bit Size: 3/16"</p> 	<p>PILLOW BLOCK</p> <p>V-CAM</p>
<p>FOR STEEL JAMBS</p> <p>1/4"-14 X 1-1/2" Hex Washer Head St. St. Tek Screw W Galv. Plating.</p> <p>Drill Bit Size: 1/8" For Steel Up To 3/8" Thick, 13/64" For Steel 3/8" Or Thicker.</p> 	<p>PILLOW BLOCK</p> <p>V-CAM</p>
<p>#10 X 1/2" Hex Washer Head Tek Screw.</p> <p>Drill Bit Size: 5/64" On Steel 1/4" Or Thicker</p> 	<p>UPPER HINGE SEAL</p>
<p>#14 X 1-1/2" Hex Washer Head Tek Screw.</p> <p>Drill Bit Size: 5/32"</p> 	<p>TOP SEAL</p>
<p>1/4" - 20 Tamper Pruf Fastener.</p> <p>Drill Bit Size: 13/64" Or #7</p> <p>Tap: 1/4" - 20</p> 	<p>FOR SECURITY DOORS ONLY</p> <p>V-CAM</p> <p>PILLOW BLOCK</p> <p>LOWER HINGE GUARD</p>
<p>1/4" - 14 X 1" Hex Washer Head St. St. Tek Screw.</p> <p>Drill Bit Size: 1/8" Up To 3/8" Steel 13/64" For Steel 3/8" Or Thicker.</p> 	<p>DUTCH MIDDLE HINGE SEAL</p> <p>LOWER HINGE GUARD</p>

DURULITE DOOR HARDWARE FACTS SHEET

U.S.P.S. SECURITY DOORS

The Durulite Postal Series door is an industrial (1/4" skin) type door. 200 Series specifications require the following options:

- SET OF FOUR - 38" INDUSTRIAL BUMPERS
- ALUMINUM LOWER HINGE GUARDS
- LOCK SLEEVE
- TWO TOP CANE BOLTS (1 PER PANEL)
- TWO BOTTOM CANE BOLTS (1 PER PANEL)
- DOUBLE PANED WINDOWS
- SECURITY BARS IN WINDOWS
- TAMPER-PRUF FASTENERS
- ENTER AND DO NOT ENTER SIGNS

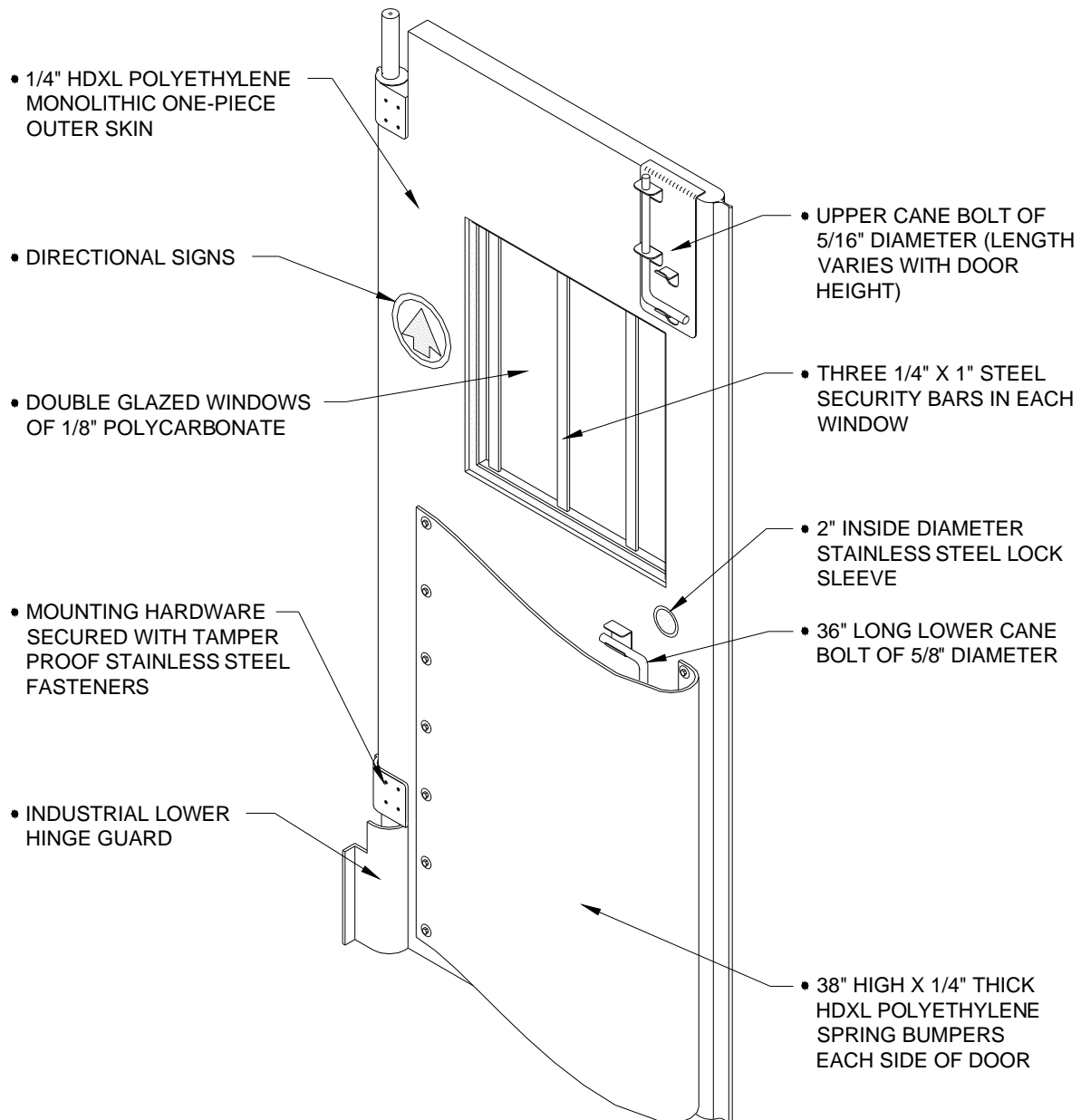
The following door heights and widths have been approved as part of the Durulite 200-Series by the U.S.P.S.. Single panes are not included in the 200-Series.

FINISHED OPENING WIDTHS: 48", 54", 60", 64", 68", 72", 79", 84"

FINISHED OPENING HEIGHTS: 84", 90", 96"

DURULITE DOOR HARDWARE FACTS SHEET

DURULITE POSTAL DOOR EXCLUSIVE FEATURES (TWO YEAR WARRANTY)



ASK FOR INFORMATION ON THESE OTHER QUALITY PRODUCTS FROM



TRAFFIC DOORS

- ⇒ Durulite® Insulated Impact Traffic Doors
- ⇒ Proline™ Impact Traffic Doors
- ⇒ Airgard® Flexible Doors
- ⇒ Saino Fire & Service Doors
- ⇒ Pharmaceutical Doors
- ⇒ Corrosion-Resistant Doors

STRIP DOORS

Chase Doors offers the largest variety of vinyl strip products in the country.

- Standard and USDA approved formulation
- 4" to 48" widths
- Loc-Rib for exterior/forklift applications
- Color-View (black, blue)
- Amber-Weld material
- Safety orange material

DOCK SEALS

- Forms a weather tight barrier between truck and building.
- Custom engineered by the factory to fit most any application.
- Wide variety of fabrics.

DOCK BUMPERS

- Molded
- Pressure laminated
- Depths of 4 1/2", 6" and 9"
- Lengths up to 96"