Introduction to the Challenger System

Challenger Systems are Value Engineered

The Challenger Cabinet Systems offers value-engineered performance, designed with the highest quality and interchangeability built into each enclosure system. Our engineers analyze the function of each frame and component meeting our quality standards, assuring that the customer is receiving the best product value at the lowest possible cost.

In addition, the widest selection of accessories is available to further enhance the function and economy of the Challenger System of Electronic Cabinets. The Challenger accessories include such items as; Cabinet Trucks, Equipment Shelves, Equipment/Storage Drawers, Work/Writing Shelf Frames with Laminated Plastic Insert Panels, Turrets, Lift Bolts, Sliding Chassis Shelves, Laminated Plastic Work/Writing Shelves, "Pull-Out" Shelves, Hinged Drawer Shelves, Chassis Supports, and Door and Panel Options such as grills, louvers and perforated openings.

For more information on these products, please see the following pages. Challenger Frames begin on page C4. An index to the Challenger Accessories is on page C34. If you have any questions, please call us at (800) 204-7225.

Equipto Challenger Acrylic Window Doors

Vertical Rack Frame

Bench Top Rack

30° Double Slope Console

Challenger Modular Electronic Cabinets

45° Double Slope Console

45° Low Profile Console

15° Sloped Front Console

Frames and Consoles

Dimensions	Frame	Features and Options
Vertical Racks	*Widths:* 19" and 24" *Depths:* 18 1/2", 22", 25 1/2", 30 3/4", 36"	▸ Frames use 14-gauge steel with all-welded construction ▸ Moveable 11-gauge Vertical Mounting Rails ▸ Universal Side Panels (made from 16 ga steel) easily removed ▸ Many color finishes available
15° Sloped Front Consoles	*Widths:* 19" and 24" *Depths:* 22", 25 1/2", 30 3/4"	▸ Frames use 14-gauge steel with all-welded construction ▸ Front panel slope is 15° from the vertical ▸ Vertical Mounting Rails in sloped opening are removable, but not adjustable. ▸ Available in 3 slope panel heights
30° Double Slope Console	*Widths:* 19" and 24" *Depths:* 22"	▸ Frames use 14-gauge steel with all-welded construction ▸ Front panel slope is 30° from the vertical ▸ Vertical Mounting Rails in sloped openings are removable, but not adjustable
45° Double Slope Console	*Widths:* 19" and 24" *Depths:* 22", 25 1/2"	▸ Frames use 14-gauge steel with all-welded construction ▸ Slope of Front and Rear Panels is 45° from the vertical ▸ Available in 2 slope panel heights
Bench Top Racks	*Widths:* 19" and 24" *Depths:* 18 1/2", 22", 25 1/2"	▸ Frames use 14-gauge steel with all-welded construction ▸ 11-gauge cold rolled steel Vertical Mounting Rails ▸ Adjustable Vertical Mounting Rails in 1 3/4" increments ▸ Available Plain, Louvered, or Perforated
45° Low Profile Frame	*Widths:* 19" and 24" *Depths:* 22", 25 1/2"	▸ Frames use 14-gauge steel with all-welded construction ▸ Extended Arm flexible for writing surface or mount additional instrument panels ▸ Overall height is 43" ▸ Panels available in 2 slope panel heights
30° and 45° Angular Frames	*Depths:* 18 1/2", 22", 25 1/2", 30 3/4", 36"	▸ Frames use 14-gauge steel with all-welded construction ▸ Allows semi-circular or angular configurations ▸ All panels removable from outside of cabinet

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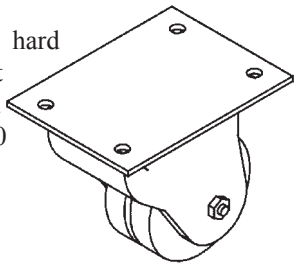
We Provide Functional Design with Quality Features on all Enclosures

Positive Door Latching

Challenger cabinets provide metal-to-metal positive door latching on all doors. Also can be supplied with locks where needed. There are no rubber, plastic or magnetic parts used which could prevent UL or OSHA acceptance. Also, metal-to-metal provides grounding that other methods do not.

Dual Wheel Casters

Dual Wheel swivel casters feature hard composition wheels which will not mar floors or develop flat spots. Casters are rated at 200 or 400 pounds each.



Mar-Proof Panel Screws

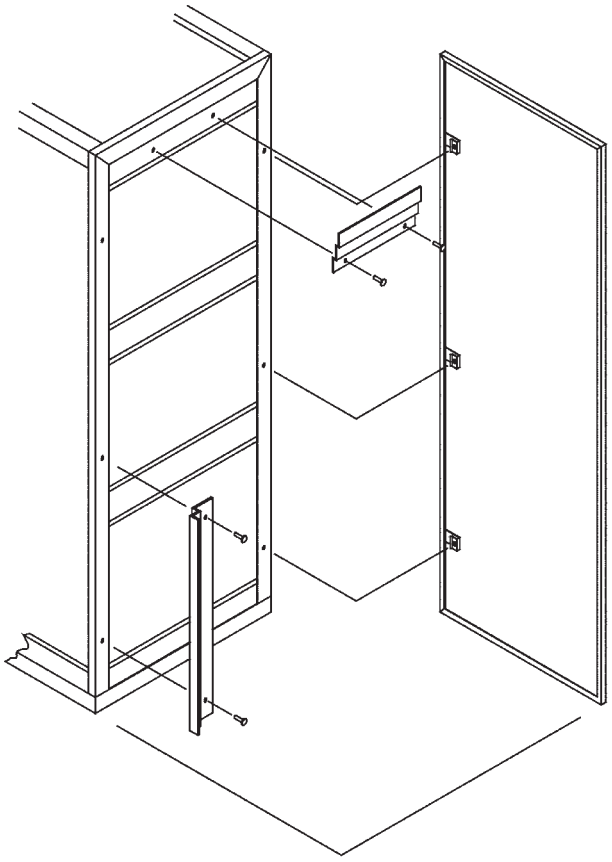
Equipto engineers have combined a 10B sheet metal screw with a black nylon washer for fastening closure panels and equipment panels to Equipto design, making it practically impossible to scratch or mar the finish when screws are removed and then reinstalled. The use of Speed Nuts® permits low-torque, positive vibration-proof fastening of your instrumentation.

Ball Bearing Slides

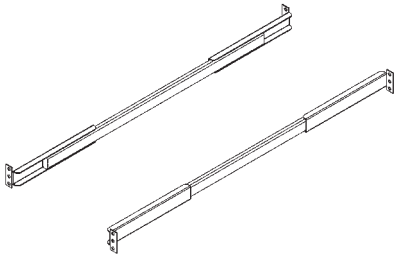
All drawers, "Pull-Out" Shelves, and Sliding Chassis Shelves are provided with ball bearing extension slides for smoothness and long life.

Universal Side Panels

Unique in the Challenger System, the Universal Side Panels can be securely fastened from the inside of the cabinet to prevent tampering, or they can be easily removed externally where ease of access is most important. Universal Side Panels are safety engineered, and easily removable. Simply slide forward a few inches, which allows a firm hand hold and lift upward and free of the frame. These panels will not jam or pop-off unexpectedly which could injure the handler.



Mounting of Universal Side Panels to Challenger Vertical Rack Frame

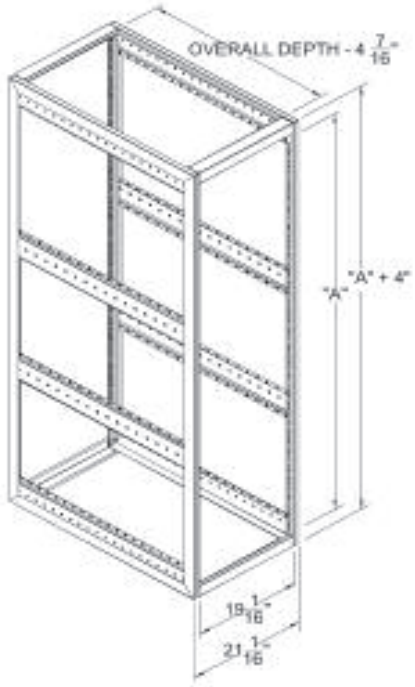


Vertical Rack Frames

The Challenger Vertical Rack Frames offer a functional design with versatility and a variety of size selections. They are modular and are designed to be joined side-by-side, front-to-back or back-to-back. The doors can be mounted on the front or rear of the cabinet frame and are latched with metal to metal catches for better grounding. The loose pin hinges allow for easy door removal when required. All panels and doors are available plain, louvered or with grills. Five frame depths including; 18 1/2", 22", 25 1/2", 30 3/4" & 36" are available. The Vertical Mounting Rails are adjustable.

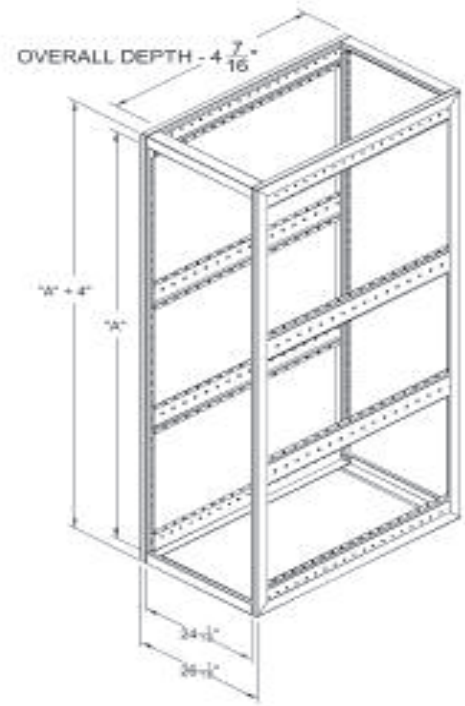
Product Features

- Frame channel made of 14-gauge steel
- All-welded frame construction
- Universal Side Panels easily removed
- Moveable 11-gauge Vertical Mounting Rails
- Available in 19" and 24" Panel Widths
- Finished in semi-gloss enamel and available in any color desired at no additional charge.



Challenger Vertical Rack Frame 19" wide

Two side panels add 1 1/4" to overall width of cabinet.



Challenger Vertical Rack Frame 24" wide

PANEL AND DOOR SUFFIX

Type of Door or Panel	Plain	Louvered				Grilled						Perforated	Window Door
						With Filter			Without Filter				
		Top	Bottom	Top & Bottom	Fully	Top	Bottom	Top & Bottom	Top	Bottom	Top & Bottom		
Side Panel/LH	11	22	23	24	25	56	57	48	26	27	18		
Side Panel/RH	11	32	33	34	35	66	67	48	36	37	18		
Flush & Face Mtd. Door	46	12	13	14	11	62	63	64	22	23	24		
Front & Rear Panels	46	12	13	14	11	62	63	64	22	23	24	31	
Top Panel	46	11				65			25			31	
Bottom Panel	01						06			02			
Face Mtd Bronz Window													81

Note: Vertical Rack frame heights are available in any increment of 1 3/4".

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Vertical Rack Frames - 19" Panel Width

VERTICAL RACK FRAMES (see frame options below)
19" Wide Panel Space

Size of Front and Rear Pan Opening HEIGHT	Part No. of Frame	Universal Side Panels (1)		*Flush Mounted Doors		*Face Mounted Doors		Front or Rear Full Length Panel
		Left Swing	Right Swing	Left Swing	Right Swing	Left Swing	Right Swing	
18 1/2" Overall Depth		Top Panel: 2T-1412- __				Bottom Panel: 26-1918- ___		
22 7/8"	40-2212-03	30-2218-__	30-2218-__	12-2211- __	12-2215- __	11-2211- __	11-2215- __	20-2212- __
29 7/8"	40-2912-03	30-2918-__	30-2918-__	12-2911- __	12-2915- __	11-2911- __	11-2915- __	20-2912- __
35 1/8"	40-3512-03	30-3518-__	30-3518-__	12-3511- __	12-3515- __	11-3511- __	11-3515- __	20-3512- __
40 3/8"	40-4012-03	30-4018-__	30-4018-__	12-4011- __	12-4015- __	11-4011- __	11-4015- __	20-4012- __
43 7/8"	40-4312-03	30-4318-__	30-4318-__	12-4311- __	12-4315- __	11-4311- __	11-4315- __	20-4312- __
52 5/8"	40-5212-03	30-5218-__	30-5218-__	12-5211- __	12-5215- __	11-5211- __	11-5215- __	20-5212- __
61 3/8"	40-6112-03	30-6118-__	30-6118-__	12-6111- __	12-6115- __	11-6111- __	11-6115- __	20-6112- __
70 1/8"	40-7012-03	30-7018-__	30-7018-__	12-7011- __	12-7015- __	11-7011- __	11-7015- __	20-7012- __
78 7/8"	40-7812-03	30-7818-__	30-7818-__	12-7811- __	12-7815- __	11-7811- __	11-7815- __	20-7812- __
22" Overall Depth		Top Panel: 2T-1712- __				Bottom Panel: 26-1922- ___		
22 7/8"	40-2222-03	30-2228-__	30-2228-__	12-2211- __	12-2215- __	11-2211- __	11-2215- __	20-2212- __
29 7/8"	40-2922-03	30-2928-__	30-2928-__	12-2911- __	12-2915- __	11-2911- __	11-2915- __	20-2912- __
35 1/8"	40-3522-03	30-3528-__	30-3528-__	12-3511- __	12-3515- __	11-3511- __	11-3515- __	20-3512- __
40 3/8"	40-4022-03	30-4028-__	30-4028-__	12-4011- __	12-4015- __	11-4011- __	11-4015- __	20-4012- __
43 7/8"	40-4322-03	30-4328-__	30-4328-__	12-4311- __	12-4315- __	11-4311- __	11-4315- __	20-4312- __
52 5/8"	40-5222-03	30-5228-__	30-5228-__	12-5211- __	12-5215- __	11-5211- __	11-5215- __	20-5212- __
61 3/8"	40-6122-03	30-6128-__	30-6128-__	12-6111- __	12-6115- __	11-6111- __	11-6115- __	20-6112- __
70 1/8"	40-7022-03	30-7028-__	30-7028-__	12-7011- __	12-7015- __	11-7011- __	11-7015- __	20-7012- __
78 7/8"	40-7822-03	30-7828-__	30-7828-__	12-7811- __	12-7815- __	11-7811- __	11-7815- __	20-7812- __

FRAME OPTIONS

By inserting the following Add-On after the first 3 digits of the frame part number you can order multiple frame accessories with just a one digit part number change. See chart below for choices.
i.e. - 40H-7022-03 Frame VR 19 x 70 x 22 w/tapped vertical mtg rails

Add-On	Frame accessories included when Add-On is included in frame P/N
A	w/punched vertical mtg rails and lift blocks**
D	w/o vertical mtg rails
E	w/o vertical mtg rails and w/ lift blocks**
H	w/tapped vertical mtg rails
J	w/tapped vertical mtg rails and lift blocks**

** Lift bolts must be ordered separately. See page C45

NOTES

If ordering front or rear panels or flush doors that will be mounted to tapped rails, then please add **T** to the P/N Example: T20-7012-46

*If you require a Lock for your door, specifiy 'with lock' in the description and add suffix **-LK** to the door P/N. Example: 11-7011-46-LK

(1) Universal Side Panels are externally removable with a slide-lift motion with provisions for fastening internally

See chart on page C4 for Door and Panel suffix choices.

Vertical Racks - 19” Panel Width

Size of Fro and Rear Panel Openings HEIGHT ‘A	Part No. of Frame	Universal Side Panels (1)		*Flush Mounted Doors		*Face Mounted Doors		Front or Rear Full Length Panel
		Left Swing	Right Swing	Left Swing	Right Swing	Left Swing	Right Swing	
25 1/2” Overall Depth		Top Panel: 2T-2112- ___				Bottom Panel: 26-1925- ___		
22 7/8”	40-2232-03	30-2238-__	30-2238-__	12-2211- __	12-2215- __	11-2211- __	11-2215- __	20-2212- __
29 7/8”	40-2932-03	30-2938-__	30-2938-__	12-2911- __	12-2915- __	11-2911- __	11-2915- __	20-2912- __
35 1/8”	40-3532-03	30-3538-__	30-3538-__	12-3511- __	12-3515- __	11-3511- __	11-3515- __	20-3512- __
40 3/8”	40-4032-03	30-4038-__	30-4038-__	12-4011- __	12-4015- __	11-4011- __	11-4015- __	20-4012- __
43 7/8”	40-4332-03	30-4338-__	30-4338-__	12-4311- __	12-4315- __	11-4311- __	11-4315- __	20-4312- __
52 5/8”	40-5232-03	30-5238-__	30-5238-__	12-5211- __	12-5215- __	11-5211- __	11-5215- __	20-5212- __
61 3/8”	40-6132-03	30-6138-__	30-6138-__	12-6111- __	12-6115- __	11-6111- __	11-6115- __	20-6112- __
70 1/8”	40-7032-03	30-7038-__	30-7038-__	12-7011- __	12-7015- __	11-7011- __	11-7015- __	20-7012- __
78 7/8”	40-7832-03	30-7838-__	30-7838-__	12-7811- __	12-7815- __	11-7811- __	11-7815- __	20-7812- __
30 3/4” Overall Depth		Top Panel: 2T-2612- ___				Bottom Panel: 26-1930- ___		
22 7/8”	40-2272-03	30-2248-__	30-2248-__	12-2211- __	12-2215- __	11-2211- __	11-2215- __	20-2212- __
29 7/8”	40-2972-03	30-2948-__	30-2948-__	12-2911- __	12-2915- __	11-2911- __	11-2915- __	20-2912- __
35 1/8”	40-3572-03	30-3548-__	30-3548-__	12-3511- __	12-3515- __	11-3511- __	11-3515- __	20-3512- __
40 3/8”	40-4072-03	30-4048-__	30-4048-__	12-4011- __	12-4015- __	11-4011- __	11-4015- __	20-4012- __
43 7/8”	40-4372-03	30-4348-__	30-4348-__	12-4311- __	12-4315- __	11-4311- __	11-4315- __	20-4312- __
52 5/8”	40-5272-03	30-5248-__	30-5248-__	12-5211- __	12-5215- __	11-5211- __	11-5215- __	20-5212- __
61 3/8”	40-6172-03	30-6148-__	30-6148-__	12-6111- __	12-6115- __	11-6111- __	11-6115- __	20-6112- __
70 1/8”	40-7072-03	30-7048-__	30-7048-__	12-7011- __	12-7015- __	11-7011- __	11-7015- __	20-7012- __
78 7/8”	40-7872-03	30-7848-__	30-7848-__	12-7811- __	12-7815- __	11-7811- __	11-7815- __	20-7812- __
36” Overall Depth		Top Panel: 2T-3112- ___				Bottom Panel: 26-1936- ___		
22 7/8”	40-2292-03	30-2258-__	30-2258-__	12-2211- __	12-2215- __	11-2211- __	11-2215- __	20-2212- __
29 7/8”	40-2992-03	30-2958-__	30-2958-__	12-2911- __	12-2915- __	11-2911- __	11-2915- __	20-2912- __
35 1/8”	40-3592-03	30-3558-__	30-3558-__	12-3511- __	12-3515- __	11-3511- __	11-3515- __	20-3512- __
40 3/8”	40-4092-03	30-4058-__	30-4058-__	12-4011- __	12-4015- __	11-4011- __	11-4015- __	20-4012- __
43 7/8”	40-4392-03	30-4358-__	30-4358-__	12-4311- __	12-4315- __	11-4311- __	11-4315- __	20-4312- __
52 5/8”	40-5292-03	30-5258-__	30-5258-__	12-5211- __	12-5215- __	11-5211- __	11-5215- __	20-5212- __
61 3/8”	40-6192-03	30-6158-__	30-6158-__	12-6111- __	12-6115- __	11-6111- __	11-6115- __	20-6112- __
70 1/8”	40-7092-03	30-7058-__	30-7058-__	12-7011- __	12-7015- __	11-7011- __	11-7015- __	20-7012- __
78 7/8”	40-7892-03	30-7858-__	30-7858-__	12-7811- __	12-7815- __	11-7811- __	11-7815- __	20-7812- __

See Frame Options and Notes on page C5
See Chart on page C4 for Door and Panel Suffix choices

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Vertical Rack Frames - 24” Panel Width

VERTICAL RACK FRAMES 24” Wide Panel Space								
Size of Front and Rear Panel Opening HEIGHT	Part No. of Frame	Universal Side Panels (1)		*Flush Mounted Doors		*Face Mounted Doors		Front or Rear Full Length Panel
		Left Swing	Right Swing	Left Swing	Right Swing	Left Swing	Right Swing	
18 1/2” Overall Depth		Top Panel: 2T-1422- __				Bottom Panel: 26-2418- ___		
22 7/8”	40-2242-03	30-2218-__	30-2218-__	12-2221- __	12-2225- __	11-2221- __	11-2225- __	20-2222- __
29 7/8”	40-2942-03	30-2918-__	30-2918-__	12-2921- __	12-2925- __	11-2921- __	11-2925- __	20-2922- __
35 1/8”	40-3542-03	30-3518-__	30-3518-__	12-3521- __	12-3525- __	11-3521- __	11-3525- __	20-3522- __
40 3/8”	40-4042-03	30-4018-__	30-4018-__	12-4021- __	12-4025- __	11-4021- __	11-4025- __	20-4022- __
43 7/8”	40-4342-03	30-4318-__	30-4318-__	12-4321- __	12-4325- __	11-4321- __	11-4325- __	20-4322- __
52 5/8”	40-5242-03	30-5218-__	30-5218-__	12-5221- __	12-5225- __	11-5221- __	11-5225- __	20-5222- __
61 3/8”	40-6142-03	30-6118-__	30-6118-__	12-6121- __	12-6125- __	11-6121- __	11-6125- __	20-6122- __
70 1/8”	40-7042-03	30-7018-__	30-7018-__	12-7021- __	12-7025- __	11-7021- __	11-7025- __	20-7022- __
78 7/8”	40-7842-03	30-7818-__	30-7818-__	12-7821- __	12-7825- __	11-7821- __	11-7825- __	20-7822- __
22” Overall Depth		Top Panel: 2T-1722- __				Bottom Panel: 26-2422- ___		
22 7/8”	40-2252-03	30-2228-__	30-2228-__	12-2221- __	12-2225- __	11-2221- __	11-2225- __	20-2222- __
29 7/8”	40-2952-03	30-2928-__	30-2928-__	12-2921- __	12-2925- __	11-2921- __	11-2925- __	20-2922- __
35 1/8”	40-3552-03	30-3528-__	30-3528-__	12-3521- __	12-3525- __	11-3521- __	11-3525- __	20-3522- __
40 3/8”	40-4052-03	30-4028-__	30-4028-__	12-4021- __	12-4025- __	11-4021- __	11-4025- __	20-4022- __
43 7/8”	40-4352-03	30-4328-__	30-4328-__	12-4321- __	12-4325- __	11-4321- __	11-4325- __	20-4322- __
52 5/8”	40-5252-03	30-5228-__	30-5228-__	12-5221- __	12-5225- __	11-5221- __	11-5225- __	20-5222- __
61 3/8”	40-6152-03	30-6128-__	30-6128-__	12-6121- __	12-6125- __	11-6121- __	11-6125- __	20-6122- __
70 1/8”	40-7052-03	30-7028-__	30-7028-__	12-7021- __	12-7025- __	11-7021- __	11-7025- __	20-7022- __
78 7/8”	40-7852-03	30-7828-__	30-7828-__	12-7821- __	12-7825- __	11-7821- __	11-7825- __	20-7822- __

FRAME OPTIONS

By inserting the following Add-On after the first 3 digits of the frame part number you can order multiple frame accessories with just a one digit part number change. See chart below for choices.
i.e. - 40H-7022-03 Frame VR 19 x 70 x 22 w/tapped vertical mtg rails

Add-On	Frame accessories included when Add-On is included in frame P/N
A	w/punched vertical mtg rails and lift blocks**
D	w/o vertical mtg rails
E	w/o vertical mtg rails and w/ lift blocks**
H	w/tapped vertical mtg rails
J	w/tapped vertical mtg rails and lift blocks**

** Lift bolts must be ordered separately. See page C45

NOTES

If ordering front or rear panels or flush doors that will be mounted to tapped rails, then please add **T** to the panel P/N Example: T20-7012-46

*If you require a Lock for your door, specifiy ‘with lock’ in the description and add suffix **-LK** to the door P/N. Example: 11-7011-46-LK

(1) Universal Side Panels are externally removable with a slide-lift motion with provisions for fastening internally

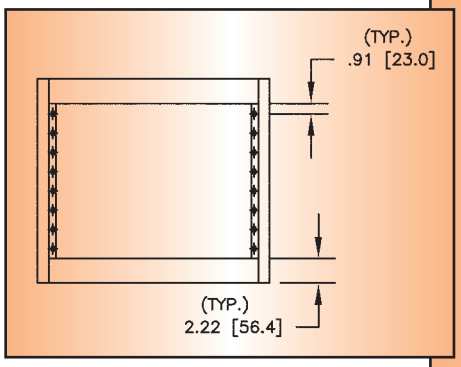
See chart on page C4 for Door and Panel suffix choices.

Vertical Rack Frames - 24” Panel Width

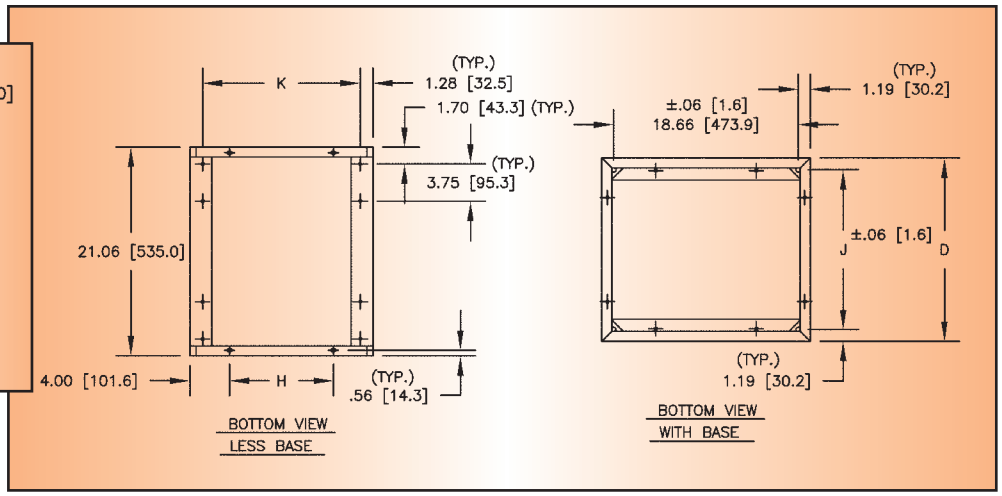
Size of Fro and Rear Panel Openings HEIGHT ‘A	Part No. of Frame	Universal Side Panels (1)		*Flush Mounted Doors		*Face Mounted Doors		Front or Rear Full Length Panel
		Left Swing	Right Swing	Left Swing	Right Swing	Left Swing	Right Swing	
25 1/2” Overall Depth		Top Panel: 2T-2122- ___				Bottom Panel: 26-2425- ___		
22 7/8”	40-2262-03	30-2238-__	30-2238-__	12-2221- __	12-2225- __	11-2221- __	11-2225- __	20-2222- __
29 7/8”	40-2962-03	30-2938-__	30-2938-__	12-2921- __	12-2925- __	11-2921- __	11-2925- __	20-2922- __
35 1/8”	40-3562-03	30-3538-__	30-3538-__	12-3521- __	12-3525- __	11-3521- __	11-3525- __	20-3522- __
40 3/8”	40-4062-03	30-4038-__	30-4038-__	12-4021- __	12-4025- __	11-4021- __	11-4025- __	20-4022- __
43 7/8”	40-4362-03	30-4338-__	30-4338-__	12-4321- __	12-4325- __	11-4321- __	11-4325- __	20-4322- __
52 5/8”	40-5262-03	30-5238-__	30-5238-__	12-5221- __	12-5225- __	11-5221- __	11-5225- __	20-5222- __
61 3/8”	40-6162-03	30-6138-__	30-6138-__	12-6121- __	12-6125- __	11-6121- __	11-6125- __	20-6122- __
70 1/8”	40-7062-03	30-7038-__	30-7038-__	12-7021- __	12-7025- __	11-7021- __	11-7025- __	20-7022- __
78 7/8”	40-7862-03	30-7838-__	30-7838-__	12-7821- __	12-7825- __	11-7821- __	11-7825- __	20-7822- __
30 3/4” Overall Depth		Top Panel: 2T-2622- ___				Bottom Panel: 26-2430- ___		
22 7/8”	40-2282-03	30-2248-__	30-2248-__	12-2221- __	12-2225- __	11-2221- __	11-2225- __	20-2222- __
29 7/8”	40-2982-03	30-2948-__	30-2948-__	12-2921- __	12-2925- __	11-2921- __	11-2925- __	20-2922- __
35 1/8”	40-3582-03	30-3548-__	30-3548-__	12-3521- __	12-3525- __	11-3521- __	11-3525- __	20-3522- __
40 3/8”	40-4082-03	30-4048-__	30-4048-__	12-4021- __	12-4025- __	11-4021- __	11-4025- __	20-4022- __
43 7/8”	40-4382-03	30-4348-__	30-4348-__	12-4321- __	12-4325- __	11-4321- __	11-4325- __	20-4322- __
52 5/8”	40-5282-03	30-5248-__	30-5248-__	12-5221- __	12-5225- __	11-5221- __	11-5225- __	20-5222- __
61 3/8”	40-6182-03	30-6148-__	30-6148-__	12-6121- __	12-6125- __	11-6121- __	11-6125- __	20-6122- __
70 1/8”	40-7082-03	30-7048-__	30-7048-__	12-7021- __	12-7025- __	11-7021- __	11-7025- __	20-7022- __
78 7/8”	40-7882-03	30-7848-__	30-7848-__	12-7821- __	12-7825- __	11-7821- __	11-7825- __	20-7822- __
36” Overall Depth		Top Panel: 2T-3122- ___				Bottom Panel: 26-2436- ___		
22 7/8”	40-2202-03	30-2258-__	30-2258-__	12-2221- __	12-2225- __	11-2221- __	11-2225- __	20-2222- __
29 7/8”	40-2902-03	30-2958-__	30-2958-__	12-2921- __	12-2925- __	11-2921- __	11-2925- __	20-2922- __
35 1/8”	40-3502-03	30-3558-__	30-3558-__	12-3521- __	12-3525- __	11-3521- __	11-3525- __	20-3522- __
40 3/8”	40-4002-03	30-4058-__	30-4058-__	12-4021- __	12-4025- __	11-4021- __	11-4025- __	20-4022- __
43 7/8”	40-4302-03	30-4358-__	30-4358-__	12-4321- __	12-4325- __	11-4321- __	11-4325- __	20-4322- __
52 5/8”	40-5202-03	30-5258-__	30-5258-__	12-5221- __	12-5225- __	11-5221- __	11-5225- __	20-5222- __
61 3/8”	40-6102-03	30-6158-__	30-6158-__	12-6121- __	12-6125- __	11-6121- __	11-6125- __	20-6122- __
70 1/8”	40-7002-03	30-7058-__	30-7058-__	12-7021- __	12-7025- __	11-7021- __	11-7025- __	20-7022- __
78 7/8”	40-7802-03	30-7858-__	30-7858-__	12-7821- __	12-7825- __	11-7821- __	11-7825- __	20-7822- __

See Frame Options and Notes on page C5
See Chart on page C4 for Door and Panel Suffix choices

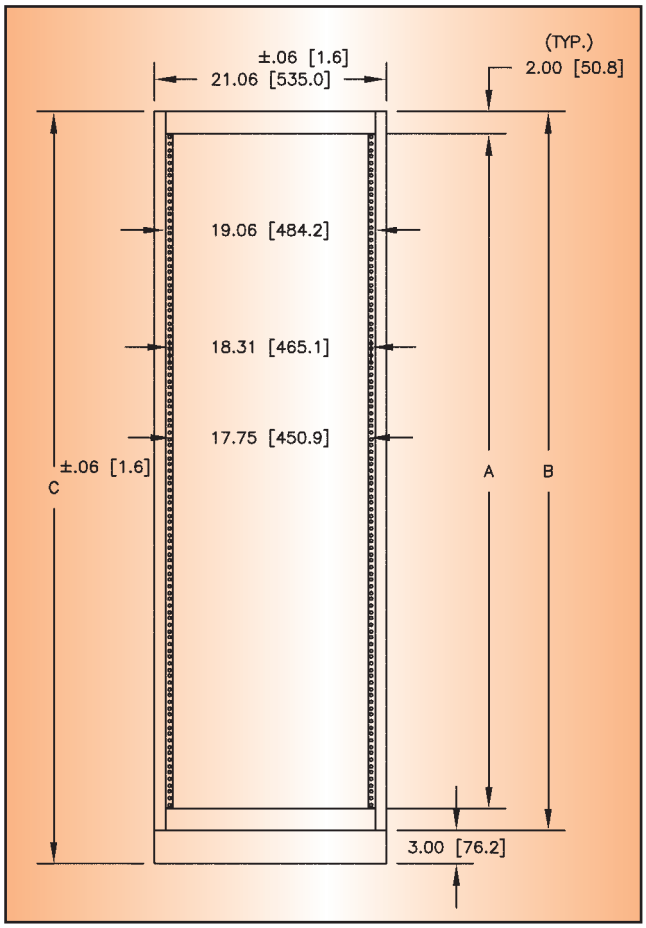
19" Panel Width



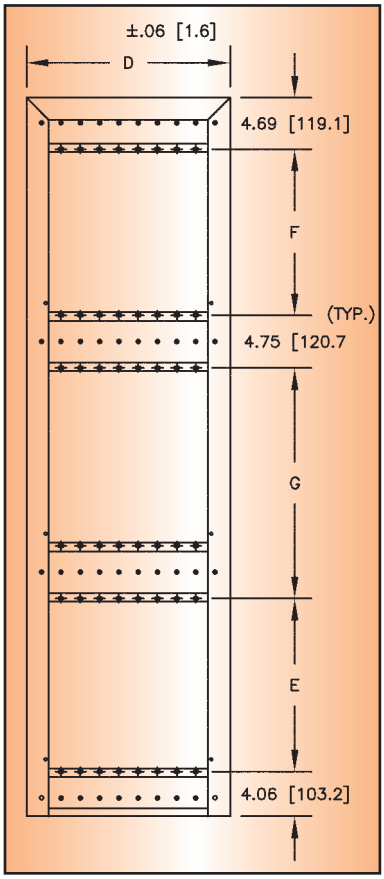
Top View

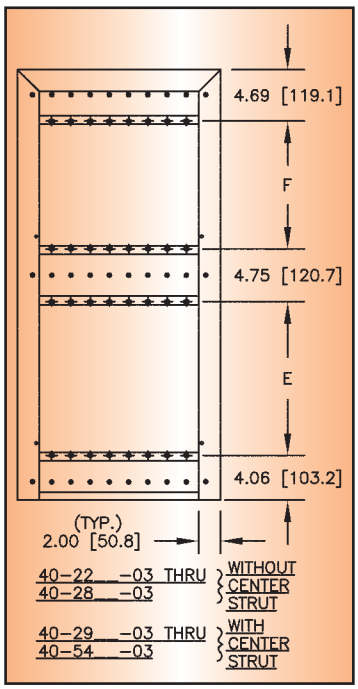


Bottom Views



Front View





Side Views

See pages C10 & C11 for dimensional charts on the above views

Vertical Rack Frames

19" Panel Width, 18 1/2", 22", 25 1/2" Deep

18.50" (469.9) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2212-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	18.50 (469.9)	N/A	N/A	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	0
40-2912-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	18.50 (469.9)	10.50 (266.7)	9.88 (250.8)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-3512-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	18.50 (469.9)	14.00 (355.6)	11.62 (295.3)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-4012-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	18.50 (469.9)	15.75 (400.1)	15.12 (384.2)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-4312-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	18.50 (469.9)	17.50 (444.5)	16.88 (428.6)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-5212-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	18.50 (469.9)	21.00 (533.4)	22.12 (562.0)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-6112-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	18.50 (469.9)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	2
40-7012-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	18.50 (469.9)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	2
40-7812-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	18.50 (469.9)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	2

22.00" (558.8) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2222-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	22.00 (558.8)	N/A	N/A	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	0
40-2922-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	22.00 (558.8)	10.50 (266.7)	9.88 (250.8)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-3522-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	22.00 (558.8)	14.00 (355.6)	11.62 (295.3)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-4022-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	22.00 (558.8)	15.75 (400.1)	15.12 (384.2)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-4322-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	22.00 (558.8)	17.50 (444.5)	16.88 (428.6)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-5222-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	22.00 (558.8)	21.00 (533.4)	22.12 (562.0)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-6122-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	22.00 (558.8)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	2
40-7022-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	22.00 (558.8)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	2
40-7822-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	22.00 (558.8)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	2

25.50" (647.7) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2232-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	25.50 (647.7)	N/A	N/A	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	0
40-2932-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	25.50 (647.7)	10.50 (266.7)	9.88 (250.8)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-3532-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	25.50 (647.7)	14.00 (355.6)	11.62 (295.3)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-4032-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	25.50 (647.7)	15.75 (400.1)	15.12 (384.2)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-4332-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	25.50 (647.7)	17.50 (444.5)	16.88 (428.6)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-5232-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	25.50 (647.7)	21.00 (533.4)	22.12 (562.0)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-6132-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	25.50 (647.7)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	2
40-7032-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	25.50 (647.7)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	2
40-7832-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	25.50 (647.7)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	2

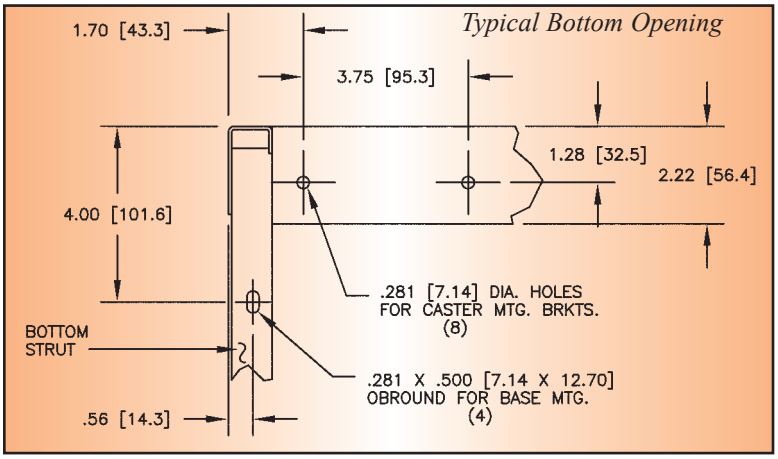
See Frame Options and Notes on page C5
See Chart on page C4 for Door and Panel Suffix choices

Equipto Electronics Corp. ▸ Aurora, IL ▸ 800.204.7225 ▸ 630.897.4691 ▸ Fax 630.897.5314

19" Panel Width, 30 3/4" & 36" Deep

30.75" (781.1) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2272-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	30.75 (781.1)	N/A	N/A	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	0
40-2972-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	30.75 (781.1)	10.50 (266.7)	9.88 (250.8)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-3572-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	30.75 (781.1)	14.00 (355.6)	11.62 (295.3)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-4072-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	30.75 (781.1)	15.75 (400.1)	15.12 (384.2)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-4372-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	30.75 (781.1)	17.50 (444.5)	16.88 (428.6)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-5272-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	30.75 (781.1)	21.00 (533.4)	22.12 (562.0)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-6172-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	30.75 (781.1)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	2
40-7072-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	30.75 (781.1)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	2
40-7872-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	30.75 (781.1)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	2

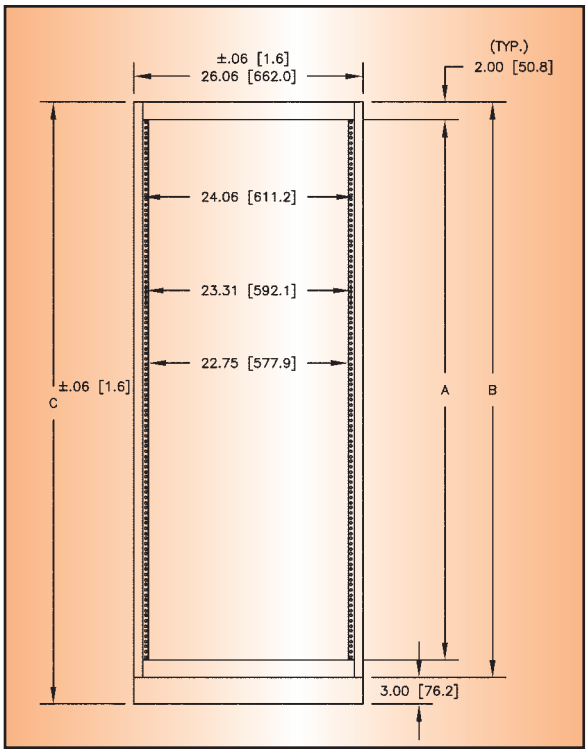
36" (914.4) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2292-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	36.00 (914.4)	N/A	N/A	N/A	28.00 (854.2)	33.63 (854.2)	33.44 (849.4)	0
40-2992-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	36.00 (914.4)	10.50 (266.7)	9.88 (250.8)	N/A	28.00 (854.2)	33.63 (854.2)	33.44 (849.4)	1
40-3592-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	36.00 (914.4)	14.00 (355.6)	11.62 (295.3)	N/A	28.00 (854.2)	33.63 (854.2)	33.44 (849.4)	1
40-4092-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	36.00 (914.4)	15.75 (400.1)	15.12 (384.2)	N/A	28.00 (854.2)	33.63 (854.2)	33.44 (849.4)	1
40-4392-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	36.00 (914.4)	17.50 (444.5)	16.88 (428.6)	N/A	28.00 (854.2)	33.63 (854.2)	33.44 (849.4)	1
40-5292-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	36.00 (914.4)	21.00 (533.4)	22.12 (562.0)	N/A	28.00 (854.2)	33.63 (854.2)	33.44 (849.4)	1
40-6192-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	36.00 (914.4)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	28.00 (854.2)	33.63 (854.2)	33.44 (849.4)	2
40-7092-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	36.00(914.4)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	28.00 (854.2)	33.63 (854.2)	33.44 (849.4)	2
40-7892-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	36.00 (914.4)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	28.00 (854.2)	33.63 (854.2)	33.44 (849.4)	2



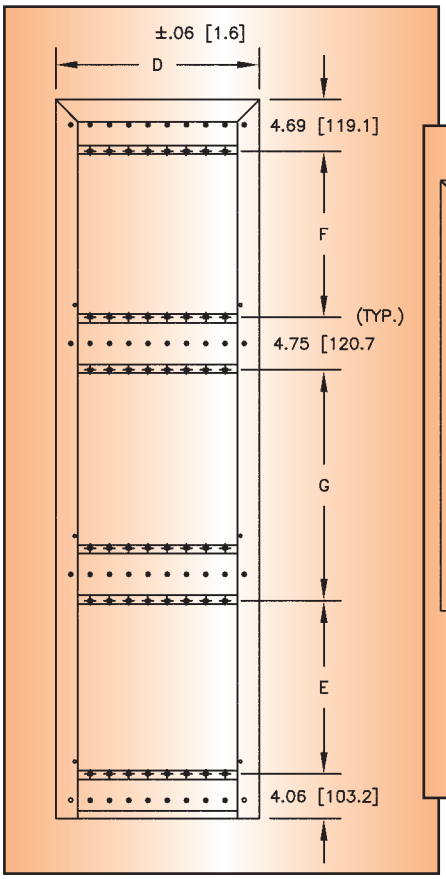
See Frame Options and Notes on page C5
See Chart on page C4 for Door and Panel Suffix choices

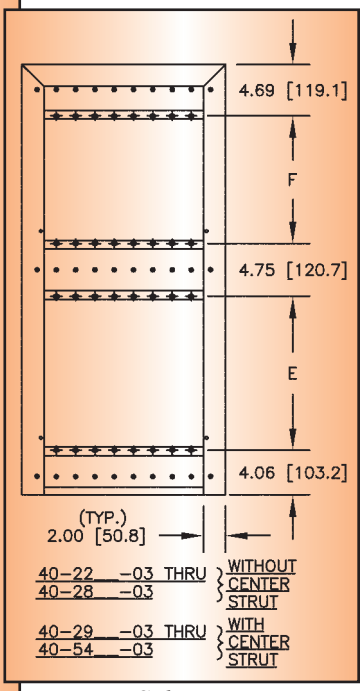
Vertical Rack Frames

For 24" Panel Width

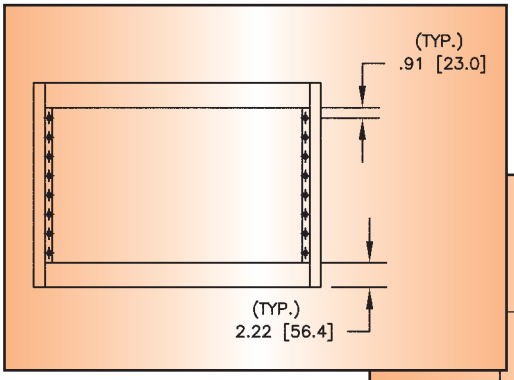


Front View

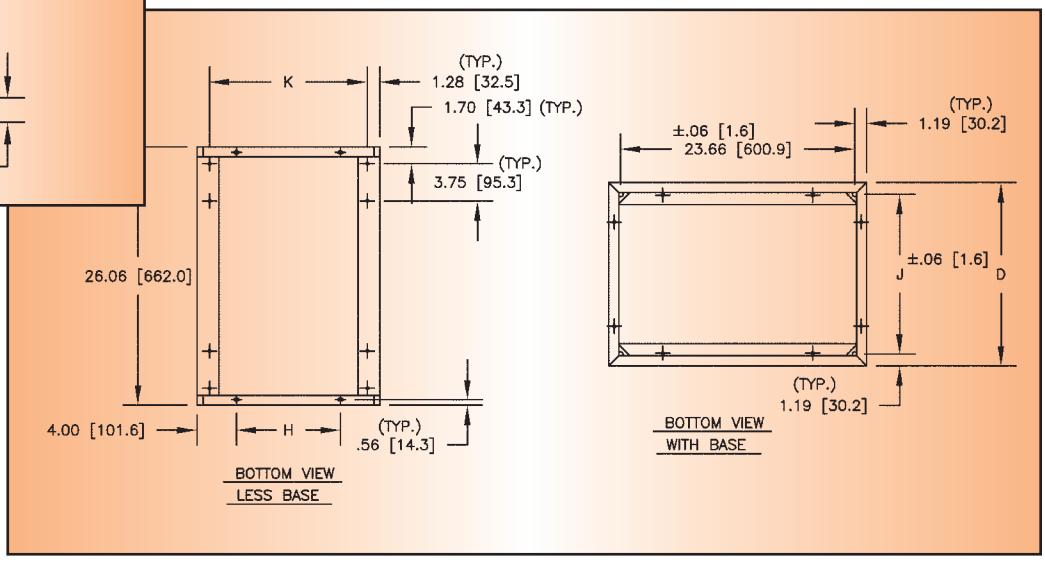




Side Views



Top View



Bottom View

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24" Panel Width, 18 1/2", 22", 25 1/2", 30 3/4" Deep

18.50" (469.9) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2242-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	18.50 (469.9)	N/A	N/A	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	0
40-2942-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	18.50 (469.9)	10.50 (266.7)	9.88 (250.8)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-3542-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	18.50 (469.9)	14.00 (355.6)	11.62 (295.3)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-4042-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	18.50 (469.9)	15.75 (400.1)	15.12 (384.2)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-4342-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	18.50 (469.9)	17.50 (444.5)	16.88 (428.6)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-5242-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	18.50 (469.9)	21.00 (533.4)	22.12 (562.0)	N/A	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	1
40-6142-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	18.50 (469.9)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	2
40-7042-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	18.50 (469.9)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	2
40-7842-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	18.50 (469.9)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	10.50 (266.7)	16.12 (409.6)	15.94 (404.8)	2

22.00" (558.8) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2252-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	22.00 (558.8)	N/A	N/A	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	0
40-2952-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	22.00 (558.8)	10.50 (266.7)	9.88 (250.8)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-3552-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	22.00 (558.8)	14.00 (355.6)	11.62 (295.3)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-4052-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	22.00 (558.8)	15.75 (400.1)	15.12 (384.2)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-4352-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	22.00 (558.8)	17.50 (444.5)	16.88 (428.6)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-5252-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	22.00 (558.8)	21.00 (533.4)	22.12 (562.0)	N/A	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	1
40-6152-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	22.00 (558.8)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	2
40-7052-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	22.00 (558.8)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	2
40-7852-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	22.00 (558.8)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	14.00 (355.6)	19.62 (498.5)	19.44 (493.7)	2

25.50" (647.7) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2262-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	25.50 (647.7)	N/A	N/A	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	0
40-2962-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	25.50 (647.7)	10.50 (266.7)	9.88 (250.8)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-3562-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	25.50 (647.7)	14.00 (355.6)	11.62 (295.3)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-4062-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	25.50 (647.7)	15.75 (400.1)	15.12 (384.2)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-4362-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	25.50 (647.7)	17.50 (444.5)	16.88 (428.6)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-5262-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	25.50 (647.7)	21.00 (533.4)	22.12 (562.0)	N/A	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	1
40-6162-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	25.50 (647.7)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	2
40-7062-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	25.50 (647.7)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	2
40-7862-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	25.50 (647.7)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	17.50 (444.5)	23.12 (587.4)	22.94 (582.6)	2

30.75" (781.1) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2282-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	30.75 (781.1)	N/A	N/A	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	0
40-2982-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	30.75 (781.1)	10.50 (266.7)	9.88 (250.8)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-3582-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	30.75 (781.1)	14.00 (355.6)	11.62 (295.3)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-4082-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	30.75 (781.1)	15.75 (400.1)	15.12 (384.2)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-4382-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	30.75 (781.1)	17.50 (444.5)	16.88 (428.6)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-5282-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	30.75 (781.1)	21.00 (533.4)	22.12 (562.0)	N/A	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	1
40-6182-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	30.75 (781.1)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	2
40-7082-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	30.75 (781.1)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	22.75 (577.9)	28.38 (720.7)	28.19 (716.0)	2
40-7882-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	30.75 (781.1)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	22.75 (577.9)	28.38 (720.7)	28.19 (716.0	2

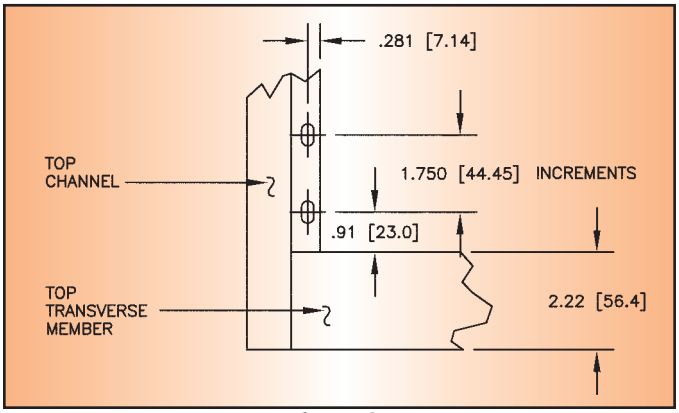
See Frame Options and Notes on page C5
See Chart on page C4 for Door and Panel Suffix choices

Visit our web site at www.equiptoelec.com for the latest technical data or a price quote

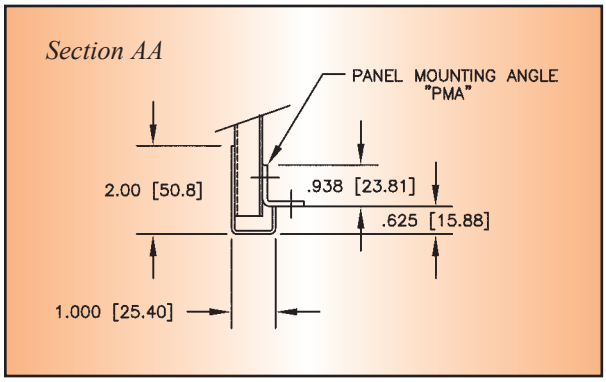
Vertical Racks

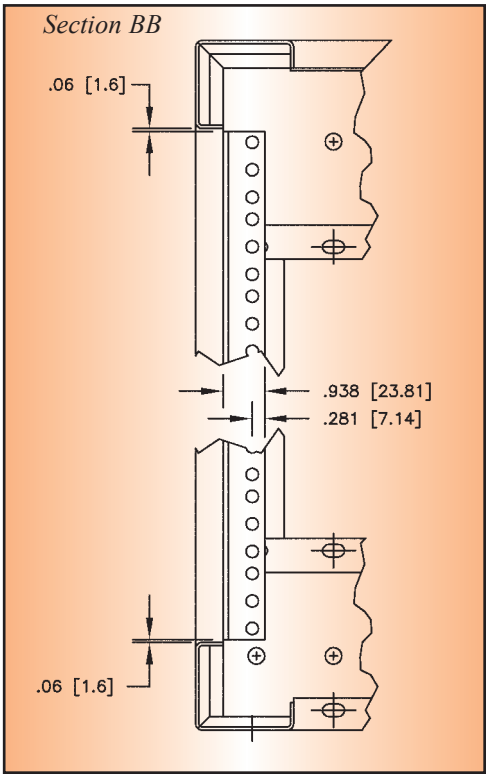
24” Panel Width

36” (914.4) Deep Frames											No. of Ctr. Struts
Part No.	A	B	C	D	E	F	G	H	J	K	
40-2202-03	22.88 (581.0)	26.88 (682.6)	29.88 (758.8)	36.00 (914.4)	N/A	N/A	N/A	28.00 (7112)	33.63 (854.2)	33.44 (849.4)	0
40-2902-03	29.88 (758.8)	33.88 (860.4)	36.88 (936.6)	36.00 (914.4)	10.50 (266.7)	9.88 (250.8)	N/A	28.00 (7112)	33.63 (854.2)	33.44 (849.4)	1
40-3502-03	35.12 (892.2)	39.12 (993.8)	42.12 (1070.0)	36.00 (914.4)	14.00 (355.6)	11.62 (295.3)	N/A	28.00 (7112)	33.63 (854.2)	33.44 (849.4)	1
40-4002-03	40.38 (1025.5)	44.38 (1127.1)	47.38 (1203.3)	36.00 (914.4)	15.75 (400.1)	15.12 (384.2)	N/A	28.00 (7112)	33.63 (854.2)	33.44 (849.4)	1
40-4302-03	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	36.00 (914.4)	17.50 (444.5)	16.88 (428.6)	N/A	28.00 (7112)	33.63 (854.2)	33.44 (849.4)	1
40-5202-03	52.62 (1336.7)	56.62 (1438.3)	59.62 (1514.5)	36.00 (914.4)	21.00 (533.4)	22.12 (562.0)	N/A	28.00 (7112)	33.63 (854.2)	33.44 (849.4)	1
40-6102-03	61.38 (1558.9)	65.38 (1660.5)	68.38 (1736.7)	36.00 (914.4)	15.75 (400.1)	15.12 (384.2)	21.00 (533.4)	28.00 (7112)	33.63 (854.2)	33.44 (849.4)	2
40-7002-03	70.12 (1781.2)	74.12 (1882.8)	77.12 (1959.0)	36.00 (914.4)	19.25 (489.0)	18.62 (473.1)	22.75 (577.9)	28.00 (7112)	33.63 (854.2)	33.44 (849.4)	2
40-7802-03	78.88 (2003.4)	82.88 (2105.0)	85.88 (2181.2)	36.00 (914.4)	21.00 (533.4)	20.38 (517.5)	28.00 (711.2)	28.00 (7112)	33.63 (854.2)	33.44 (849.4)	2

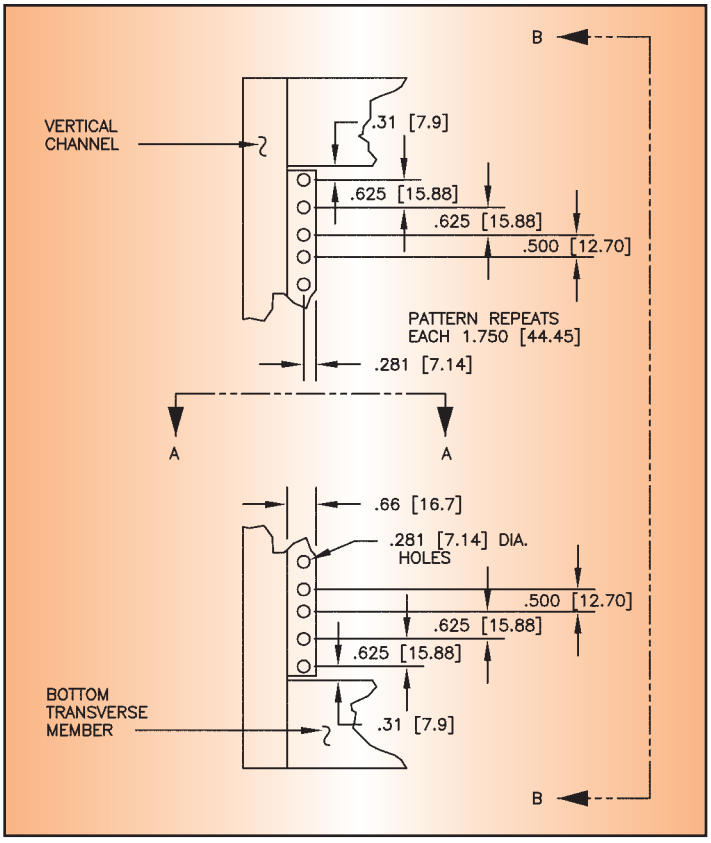


Typical Top Opening





See Frame Options and Notes on page C5
See Chart on page C4 for Door and Panel Suffix choices



Typical Panel Space

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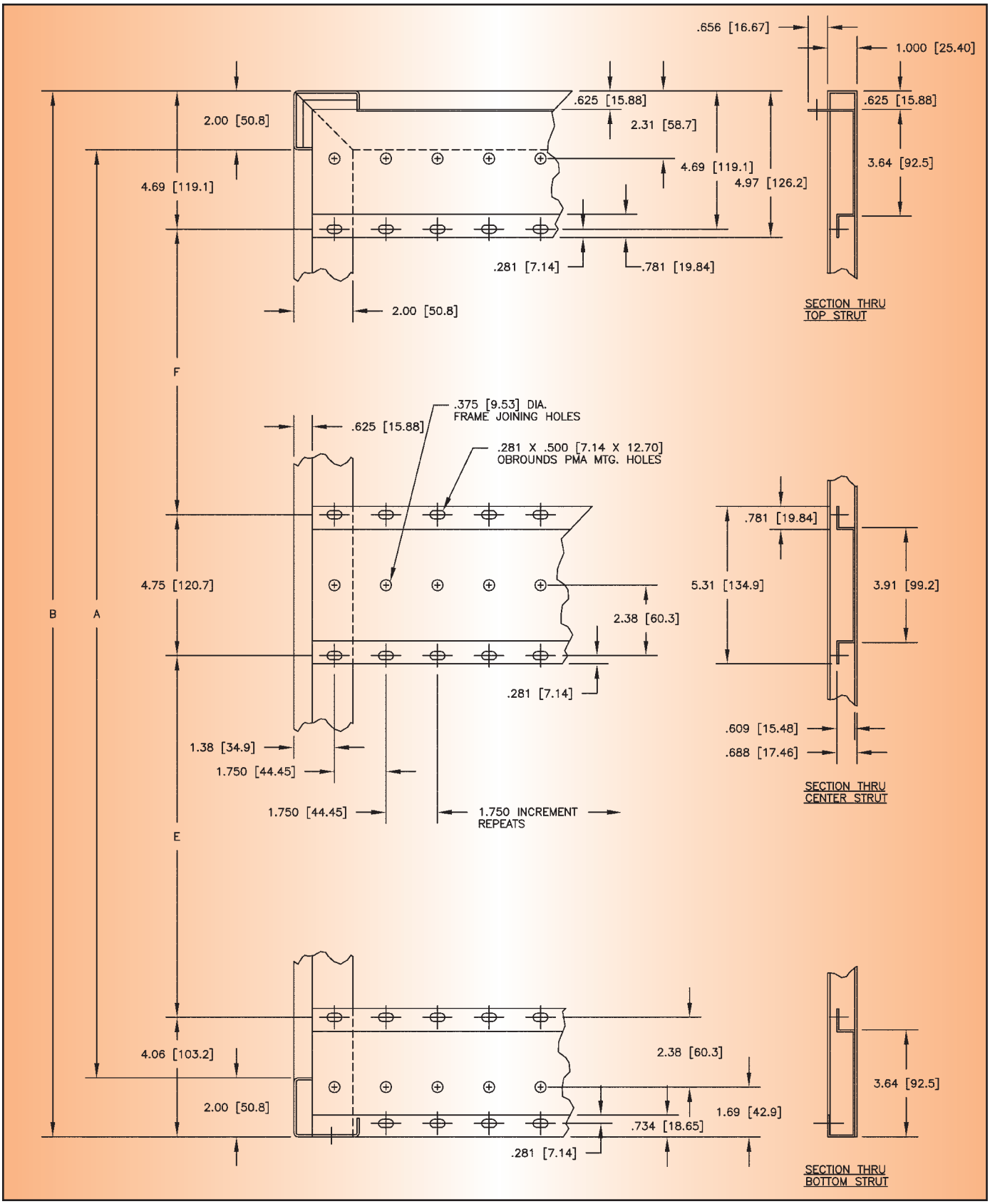
Vertical Rack Frame Details

Dimensional charts: see pages C10 & C11 for 19” panel width, see pages C12 & C13 for 24” panel width

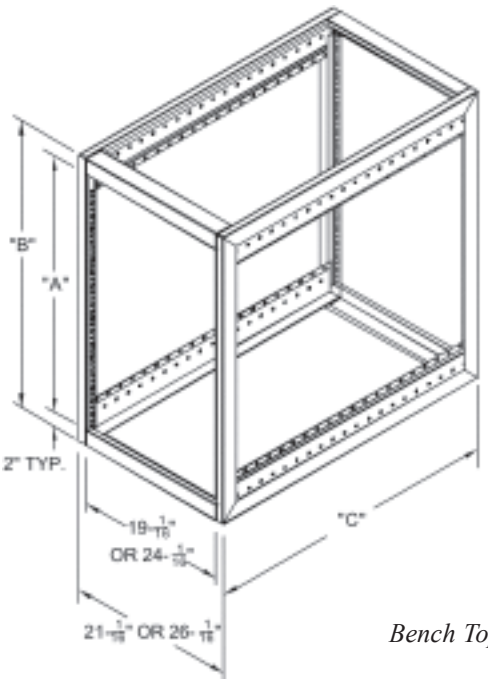


Bench Top Racks

The Challenger Bench Top Racks are designed for bench or desk top use. They have the identical frame structure as that used in the Vertical Racks as well as Sloped Front Cabinets. These cabinets are of a modular design and may be joined side-by-side, one on top of the other, front-to-back or back-to-back in multiple bay or stacked assemblies. They are available in eight panel heights, two widths including 19" and 24" and three depths including, 18 1/2", 22" and 25 1/2". All Bench Top Racks are supplied with rubber feet.

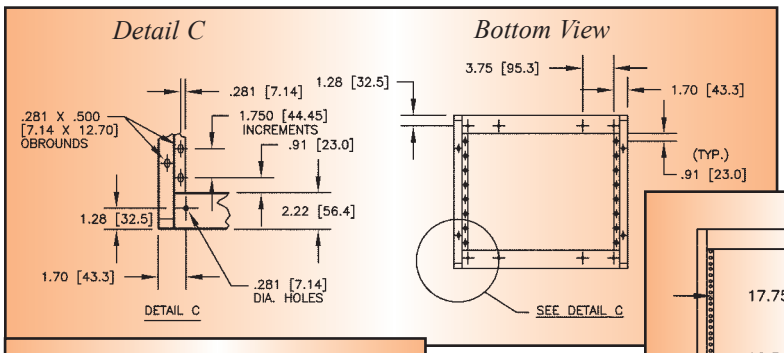
Product Features

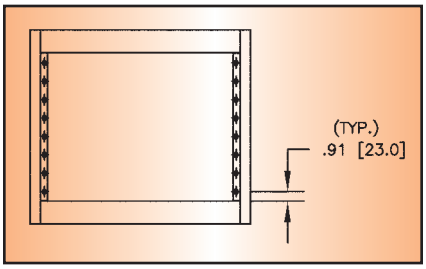
- Frame of 14-gauge steel with all-welded construction
- 11-gauge cold rolled steel Vertical Mounting Rails
- Adjustable Vertical Mounting Rails in 1 3/4" increments
- Available in 19" and 24" Panel Widths and three depths
- Available Plain, Louvered, or Perforated



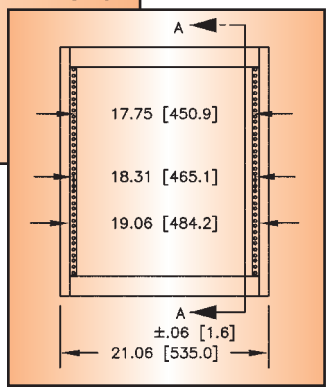
Bench Top Rack

19" Panel Width

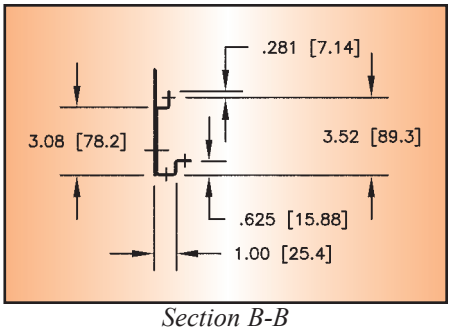




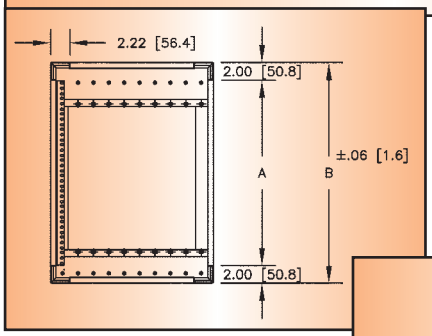
Top View



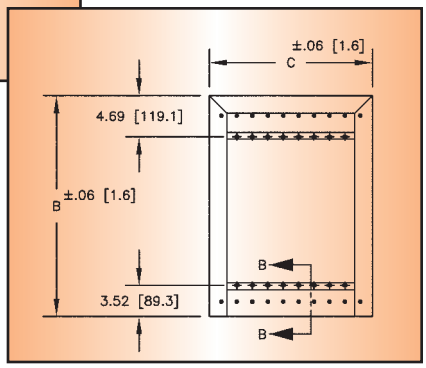
Front View



Section B-B



Section A-A



Side Views

Part No.	A	B	C
43-0820-03	8.81 (223.8)	12.81 (325.4)	22.00 (558.8)
43-1020-03	10.56 (268.3)	14.56 (369.9)	22.00 (558.8)
43-1220-03	12.31 (312.7)	16.31 (414.3)	22.00 (558.8)
43-1420-03	14.06 (357.2)	18.06 (458.8)	22.00 (558.8)
43-1520-03	15.81 (401.6)	19.81 (503.2)	22.00 (558.8)
43-1720-03	17.56 (446.1)	21.56 (547.7)	22.00 (558.8)
43-1920-03	19.31 (490.5)	23.31 (592.1)	22.00 (558.8)
43-2120-03	21.06 (535.0)	25.06 (636.6)	22.00 (558.8)

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BENCH TOP RACKS For 19" Wide Panels							
Size of Front and Rear Panel Openings HEIGHT "A"	Part No. of Frame	Universal Side Panels Plain (1)	Universal Side Panels Louvered on Center Line		Flush Mounted Doors (2)		Front & Rear Full Length Panel
			Left Hand	Right Hand	Left Swing	Right Swing	
18 1/2" Overall Depth			Top or Bottom Panels: 2T-1412-__*				
8 13/16"	43-0810-03	37-0818-11	37-0818-25	37-0818-35	Not Avail.	Not Avail.	20-0812-_*
10 9/16"	43-1010-03	37-1018-11	37-1018-25	37-1018-35	Not Avail.	Not Avail.	20-1012-_
12 5/16"	43-1210-03	37-1218-11	37-1218-25	37-1218-35	Not Avail.	Not Avail.	20-1212-_
14 1/16"	43-1410-03	37-1418-11	37-1418-25	37-1418-35	12-1411-_*	12-1415-_*	20-1412-_
15 13/16"	43-1510-03	37-1518-11	37-1518-25	37-1518-35	12-1511-_	12-1515-_	20-1512-_
17 9/16"	43-1710-03	37-1718-11	37-1718-25	37-1718-35	12-1711-_	12-1715-_	20-1712-_
19 5/16"	43-1910-03	37-1918-11	37-1918-25	37-1918-35	12-1911-_	12-1915-_	20-1912-_
21 1/16"	43-2110-03	37-2118-11	37-2118-25	37-2118-35	12-2111-_	12-2115-_	20-2112-_
22" Overall Depth			Top or Bottom Panels: 2T-1712-__*				
8 13/16"	43-0820-03	37-0828-11	37-0828-25	37-0828-35	Not Avail.	Not Avail.	20-0812-_*
10 9/16"	43-1020-03	37-1028-11	37-1028-25	37-1028-35	Not Avail.	Not Avail.	20-1012-_
12 5/16"	43-1220-03	37-1228-11	37-1228-25	37-1228-35	Not Avail.	Not Avail.	20-1212-_
14 1/16"	43-1420-03	37-1428-11	37-1428-25	37-1428-35	12-1411-_*	12-1415-_*	20-1412-_
15 13/16"	43-1520-03	37-1528-11	37-1528-25	37-1528-35	12-1511-_	12-1515-_	20-1512-_
17 9/16"	43-1720-03	37-1728-11	37-1728-25	37-1728-35	12-1711-_	12-1715-_	20-1712-_
19 5/16"	43-1920-03	37-1928-11	37-1928-25	37-1928-35	12-1911-_	12-1915-_	20-1912-_
21 1/16"	43-2120-03	37-2128-11	37-2128-25	37-2128-35	12-2111-_	12-2115-_	20-2112-_
25 1/2" Overall Depth			Top or Bottom Panels: 2T-2112-__*				
8 13/16"	43-0830-03	37-0838-11	37-0838-25	37-0838-35	Not Avail.	Not Avail.	20-0812-_*
10 9/16"	43-1030-03	37-1038-11	37-1038-25	37-1038-35	Not Avail.	Not Avail.	20-1012-_
12 5/16"	43-1230-03	37-1238-11	37-1238-25	37-1238-35	Not Avail.	Not Avail.	20-1212-_
14 1/16"	43-1430-03	37-1438-11	37-1438-25	37-1438-35	12-1411-_*	12-1415-_*	20-1412-_
15 13/16"	43-1530-03	37-1538-11	37-1538-25	37-1538-35	12-1511-_	12-1515-_	20-1512-_
17 9/16"	43-1730-03	37-1738-11	37-1738-25	37-1738-35	12-1711-_	12-1715-_	20-1712-_
19 5/16"	43-1930-03	37-1938-11	37-1938-25	37-1938-35	12-1911-_	12-1915-_	20-1912-_
21 1/16"	43-2130-03	37-2138-11	37-2138-25	37-2138-35	12-2111-_	12-2115-_	20-2112-_

(**1**) Universal Side Panels are externally removable with a slide-lift motion with provisions for fastening internally.
(**2**) If Door Lock is required, specify with lock and add "-LK" to door part number.
* See Page C19 for door and panel options and part number suffixes.

See Frame Options on page C5

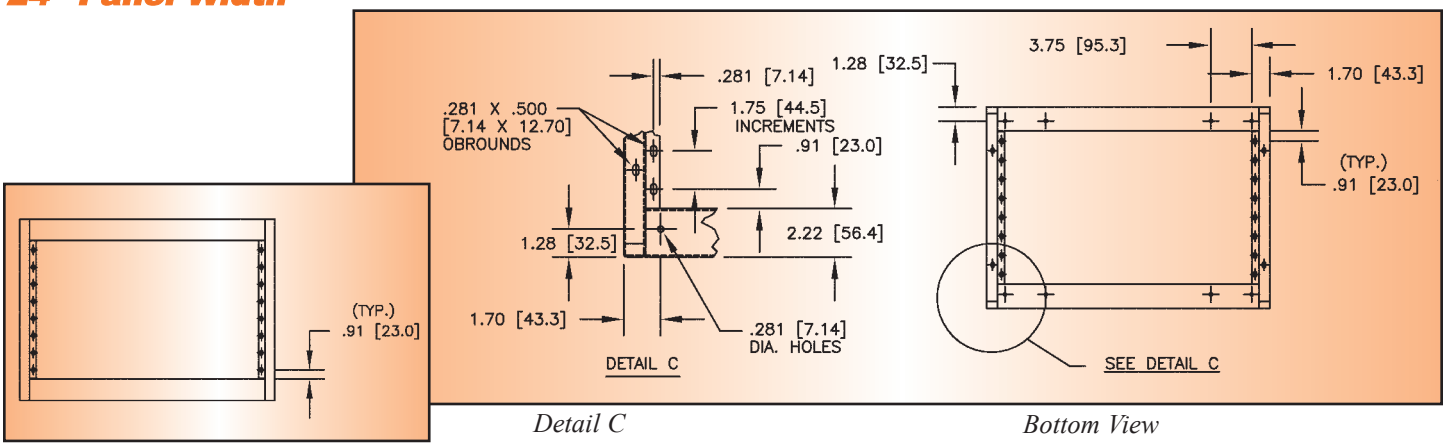
If ordering flush doors to mount to Tapped vertical rails, please add a 'T' to the front of the door P/N.

Part No.	A	B	C
43-0810-03	8.81 (223.8)	12.81 (325.4)	18.50 (469.9)
43-1010-03	10.56 (268.3)	14.56 (369.9)	18.50 (469.9)
43-1210-03	12.31 (312.7)	16.31 (414.3)	18.50 (469.9)
43-1410-03	14.06 (357.2)	18.06 (458.8)	18.50 (469.9)
43-1510-03	15.81 (401.6)	19.81 (503.2)	18.50 (469.9)
43-1710-03	17.56 (446.1)	21.56 (547.7)	18.50 (469.9)
43-1910-03	19.31 (490.5)	23.31 (592.1)	18.50 (469.9)
43-2110-03	21.06 (535.0)	25.06 (636.6)	18.50 (469.9)

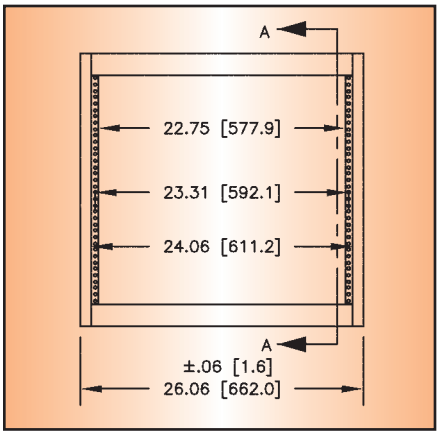
Part No.	A	B	C
43-0830-03	8.81 (223.8)	12.81 (325.4)	25.50 (647.7)
43-1030-03	10.56 (268.3)	14.56 (369.9)	25.50 (647.7)
43-1230-03	12.31 (312.7)	16.31 (414.3)	25.50 (647.7)
43-1430-03	14.06 (357.2)	18.06 (458.8)	25.50 (647.7)
43-1530-03	15.81 (401.6)	19.81 (503.2)	25.50 (647.7)
43-1730-03	17.56 (446.1)	21.56 (547.7)	25.50 (647.7)
43-1930-03	19.31 (490.5)	23.31 (592.1)	25.50 (647.7)
43-2130-03	21.06 (535.0)	25.06 (636.6)	25.50 (647.7)

Bench Top Racks

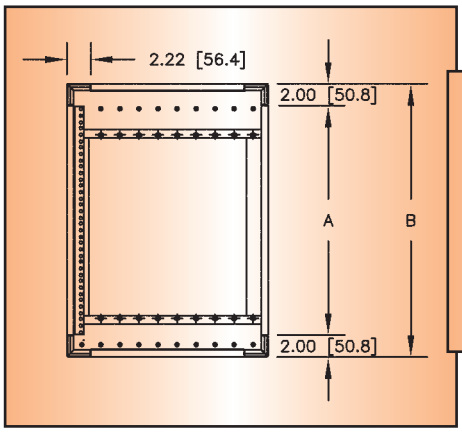
24" Panel Width



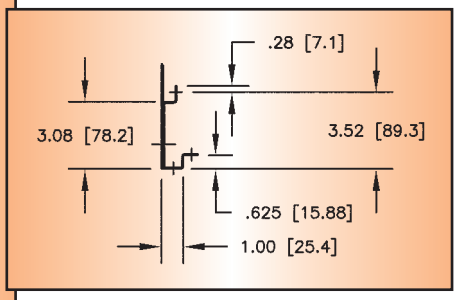
Top View *Detail C* *Bottom View*



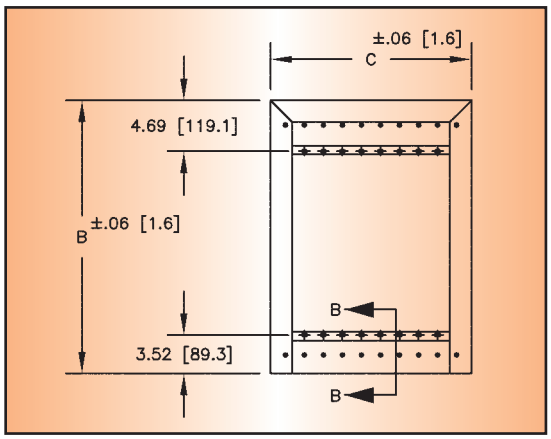
Front View



Section A-A



Section B-B



Side Views

Part No.	A	B	C
43-0860-03	8.81 (223.8)	12.81 (325.4)	18.50 (469.90)
43-1060-03	10.56 (268.3)	14.56 (369.9)	18.50 (469.90)
43-1260-03	12.31 (312.7)	16.31 (414.3)	18.50 (469.90)
43-1460-03	14.06 (357.2)	18.06 (458.8)	18.50 (469.90)
43-1560-03	15.81 (401.6)	19.81 (503.2)	18.50 (469.90)
43-1760-03	17.56 (446.1)	21.56 (547.7)	18.50 (469.90)
43-1960-03	19.31 (490.5)	23.31 (592.1)	18.50 (469.90)
43-2160-03	21.06 (535.0)	25.06 (636.6)	18.50 (469.90)

Part No.	A	B	C
43-0840-03	8.81 (223.8)	12.81 (325.4)	25.50 (647.7)
43-1040-03	10.56 (268.3)	14.56 (369.9)	25.50 (647.7)
43-1240-03	12.31 (312.7)	16.31 (414.3)	25.50 (647.7)
43-1440-03	14.06 (357.2)	18.06 (458.8)	25.50 (647.7)
43-1540-03	15.81 (401.6)	19.81 (503.2)	25.50 (647.7)
43-1740-03	17.56 (446.1)	21.56 (547.7)	25.50 (647.7)
43-1940-03	19.31 (490.5)	23.31 (592.1)	25.50 (647.7)
43-2140-03	21.06 (535.0)	25.06 (636.6)	25.50 (647.7)

Equipto Electronics Corp. ▸ Aurora, IL ▸ 800.204.7225 ▸ 630.897.4691 ▸ Fax 630.897.5314

BENCH TOP RACKS For 24" Wide Panels							
Size of Front and Rear Panel Openings HEIGHT "A"	Part No. of Frame	Universal Side Panels Plain (1)	Universal Side Panels Louvered on Center Line		Flush Mounted Doors (2)		Front & Rear Full Length Panel
			Left Hand	Right Hand	Left Swing	Right Swing	
18 1/2" Overall Depth		Top or Bottom Panels: 2T-1422-__*					
8 13/16"	43-0840-03	37-0818-11	37-0818-25	37-0818-35	Not Avail.	Not Avail.	20-0822-_*
10 9/16"	43-1040-03	37-1018-11	37-1018-25	37-1018-35	Not Avail.	Not Avail.	20-1022-_
12 5/16"	43-1240-03	37-1218-11	37-1218-25	37-1218-35	Not Avail.	Not Avail.	20-1222-_
14 1/16"	43-1440-03	37-1418-11	37-1418-25	37-1418-35	12-1421-_*	12-1425-_*	20-1422-_
15 13/16"	43-1540-03	37-1518-11	37-1518-25	37-1518-35	12-1521-_	12-1525-_	20-1522-_
17 9/16"	43-1740-03	37-1718-11	37-1718-25	37-1718-35	12-1721-_	12-1725-_	20-1722-_
19 5/16"	43-1940-03	37-1918-11	37-1918-25	37-1918-35	12-1921-_	12-1925-_	20-1922-_
21 1/16"	43-2140-03	37-2118-11	37-2118-25	37-2118-35	12-2121-_	12-2125-_	20-2122-_
22" Overall Depth		Top or Bottom Panels: 2T-1722-__*					
8 13/16"	43-0850-03	37-0828-11	37-0828-25	37-0828-35	Not Avail.	Not Avail.	20-0822-_*
10 9/16"	43-1050-03	37-1028-11	37-1028-25	37-1028-35	Not Avail.	Not Avail.	20-1022-_
12 5/16"	43-1250-03	37-1228-11	37-1228-25	37-1228-35	Not Avail.	Not Avail.	20-1222-_
14 1/16"	43-1450-03	37-1428-11	37-1428-25	37-1428-35	12-1425-_*	12-1421-_*	20-1422-_
15 13/16"	43-1550-03	37-1528-11	37-1528-25	37-1528-35	12-1525-_	12-1521-_	20-1522-_
17 9/16"	43-1750-03	37-1728-11	37-1728-25	37-1728-35	12-1725-_	12-1721-_	20-1722-_
19 5/16"	43-1950-03	37-1928-11	37-1928-25	37-1928-35	12-1925-_	12-1921-_	20-1922-_
21 1/16"	43-2150-03	37-2128-11	37-2128-25	37-2128-35	12-2125-_	12-2121-_	20-2122-_
25 1/2" Overall Depth		Top or Bottom Panels: 2T-2122-__*					
8 13/16"	43-0860-03	37-0838-11	37-0838-25	37-0838-35	Not Avail.	Not Avail.	20-0822-_*
10 9/16"	43-1060-03	37-1038-11	37-1038-25	37-1038-35	Not Avail.	Not Avail.	20-1022-_
12 5/16"	43-1260-03	37-1238-11	37-1238-25	37-1238-35	Not Avail.	Not Avail.	20-1222-_
14 1/16"	43-1460-03	37-1438-11	37-1438-25	37-1438-35	12-1421-_*	12-1425-_*	20-1422-_
15 13/16"	43-1560-03	37-1538-11	37-1538-25	37-1538-35	12-1521-_	12-1525-_	20-1522-_
17 9/16"	43-1760-03	37-1738-11	37-1738-25	37-1738-35	12-1721-_	12-1725-_	20-1722-_
19 5/16"	43-1960-03	37-1938-11	37-1938-25	37-1938-35	12-1921-_	12-1925-_	20-1922-_
21 1/16"	43-2160-03	37-2138-11	37-2138-25	37-2138-35	12-2121-_	12-2125-_	20-2122-_

See Frame Options Chart at the bottom of page D5

NOTES

If ordering front or rear panels or flush doors that will be mounted to tapped rails, then please add **T** to the panel P/N Example: T20-7012-46

*If you require a Lock for your door, specifiy 'with lock' in the description and add suffix **-LK** to the door P/N. Example: 11-7011-46-LK

See chart on page D4 for Door and Panel suffix choices.

Part No.	A	B	C
43-0850-03	8.81 (223.8)	12.81 (325.4)	22.00 (558.8)
43-1050-03	10.56 (268.3)	14.56 (369.9)	22.00 (558.8)
43-1250-03	12.31 (312.7)	16.31 (414.3)	22.00 (558.8)
43-1450-03	14.06 (357.2)	18.06 (458.8)	22.00 (558.8)
43-1550-03	15.81 (401.6)	19.81 (503.2)	22.00 (558.8)
43-1750-03	17.56 (446.1)	21.56 (547.7)	22.00 (558.8)
43-1950-03	19.31 (490.5)	23.31 (592.1)	22.00 (558.8)
43-2150-03	21.06 (535.0)	25.06 (636.6)	22.00 (558.8)

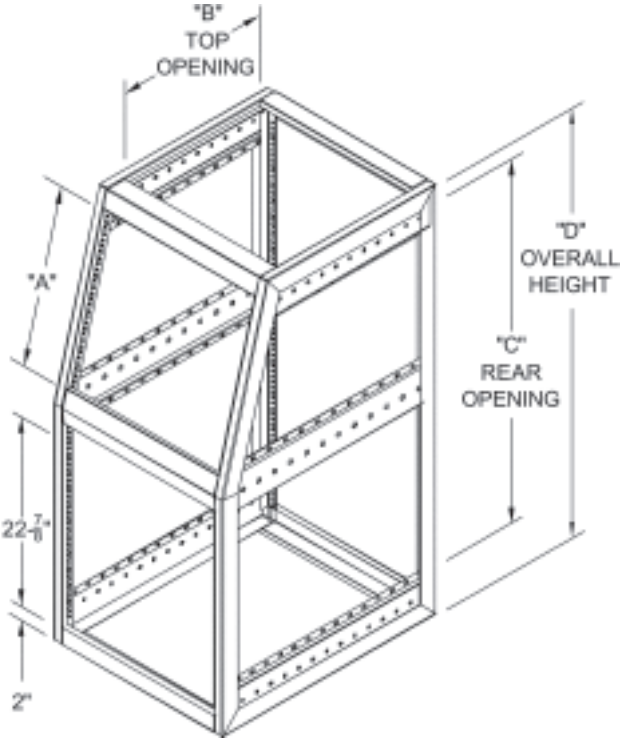
PANEL AND DOOR SUFFIX*	
Type of Door or Panel	Suffix Number
Plain Panel	46
Louvered Panel	11
Perforated Panel	31
Plain Door	46
Fully Louvered Door	11
Louvered-Top Only	12
Louvered-Bottom Only	13
Louvered-Top & Bottom	14

15° Sloped Front Consoles

The Challenger 15° Sloped Front Consoles are designed as an adaptable cabinet style, especially for single or multiple-bay consoles. They are used where electronic equipment is operated by an operator in a sitting position. The Sloped Front Consoles are furnished with adjustable Vertical Mounting Rails in the rear and lower front openings. The Sloped Front Consoles are also readily adaptable to the use of Challenger Work/Writing Shelves, either in a straight multiple bay or angular console configuration. They are available in three slope panel heights, two widths and three depths. Please see Product Features for exact sizes available.

Product Features

- 14-gauge steel frame with all-welded construction
- Front panel slope is 15° from the vertical
- Vertical Mounting Rails in sloped opening are removable, but not adjustable.
- Available in 19" and 24" Panel Widths
- Available in 22", 25 1/2" and 30 3/4" Panel Depths



15° Sloped Front Console

19" Wide Panel Space				
Part No.	**A**	**B**	**C**	**D**
41-1022-23	10 5/8"	14 1/16"	36 7/8"	43 7/8"
41-1023-23	10 5/8"	17 9/16"	36 7/8"	43 7/8"
41-1027-23	10 5/8"	22 13/16"	36 7/8"	43 7/8"
41-1722-23	17 5/8"	12 5/16"	43 7/8"	50 7/8"
41-1723-23	17 5/8"	15 13/16"	43 7/8"	50 7/8"
41-1727-23	17 5/8"	21 1/16"	43 7/8"	50 7/8"
41-2122-23	21 1/8"	10 9/16"	47 3/8"	54 3/8"
41-2123-23	21 1/8"	14 1/16"	47 3/8"	54 3/8"
41-2127-23	21 1/8"	19 5/16"	47 3/8"	54 3/8"

24" Wide Panel Space				
Part No.	**A**	**B**	**C**	**D**
41-1025-23	10 5/8"	14 1/16"	36 7/8"	43 7/8"
41-1026-23	10 5/8"	17 9/16"	36 7/8"	43 7/8"
41-1028-23	10 5/8"	22 13/16"	36 7/8"	43 7/8"
41-1725-23	17 5/8"	12 5/16"	43 7/8"	50 7/8"
41-1726-23	17 5/8"	15 13/16"	43 7/8"	50 7/8"
41-1728-23	17 5/8"	21 1/16"	43 7/8"	50 7/8"
41-2125-23	21 1/8"	10 9/16"	47 3/8"	54 3/8"
41-2126-23	21 1/8"	14 1/16"	47 3/8"	54 3/8"
41-2128-23	21 1/8"	19 5/16"	47 3/8"	54 3/8"

PANEL AND DOOR SUFFIX												
Type of Door or Panel	Plain	Louvered				Grilled						Perforated
						With Filter			Without Filter			
		Top	Bottom	Top & Bottom	Fully	Top	Bottom	Top & Bottom	Top	Bottom	Top & Bottom	
Side Panel/LH	21		23							27		
Side Panel/RH	31		33							37		
Flush & Face Mtd. Door	46	12	13	14	11	62	63	64	22	23	24	
Front & Rear Panels	46	12	13	14	11	62	63	64	22	23	24	31
Top Panel	46	11				65			25			31
Bottom Panel	01						06			02		

See Frame Options and Notes on page C5

19" and 24" Panel Widths

15° SLOPED FRONT CONSOLES
For 19" Wide Panels

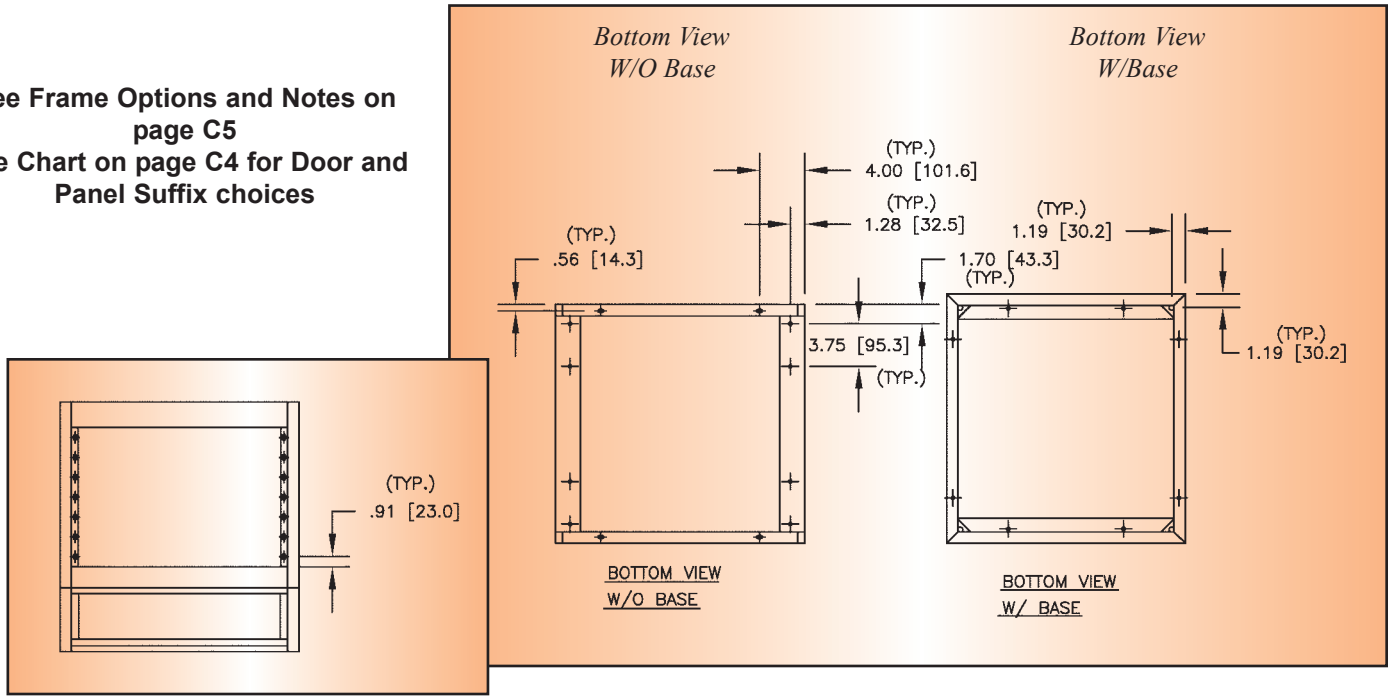
Height of Sloped Opening "A"	Part No. of Frame	Universal Side Panels LH or RH (1)	Face* Mounted Doors Lower Front		Flush* Mounted Doors Full Length Rear		Face* Mounted Doors Full Length Rear		Rear Full Length Panel	Top Panels
			Left Hinged	Right Hinged	Left Hinged	Right Hinged	Left Hinged	Right Hinged		
22" Overall Depth			Lower Front Full Length Panel: 20-2212-_		Bottom Panel: 26-1922-_					
10 5/8"	41-1022-23	32-1028-_	11-2211-_	11-2215-_	12-3611-_	12-3615-_	11-3611-_	11-3615-_	20-3612-_	2T-1412-_
17 5/8"	41-1722-23	32-1728-_	11-2211-_	11-2215-_	12-4311-_	12-4315-_	11-4311-_	11-4315-_	20-4312-_	2T-1212-_
21 1/8"	41-2122-23	32-2128-_	11-2211-_	11-2215-_	12-4711-_	12-4715-_	11-4711-_	11-4715-_	20-4712-_	2T-1012-_
		Flush Mounted Lower Front Door*		Right Swing: 12-2215-_		Left Hinged: 12-2211-_				
25 1/2" Overall Depth			Lower Front Full Length Panel: 20-2212-_		Bottom Panel: 26-1925-_					
10 5/8"	41-1023-23	33-1028-_	11-2211-_	11-2215-_	12-3611-_	12-3615-_	11-3611-_	11-3615-_	20-3612-_	2T-1712-_
17 5/8"	41-1723-23	33-1728-_	11-2211-_	11-2215-_	12-4311-_	12-4315-_	11-4311-_	11-4315-_	20-4312-_	2T-1512-_
21 1/8"	41-2123-23	33-2128-_	11-2211-_	11-2215-_	12-4711-_	12-4715-_	11-4711-_	11-4715-_	20-4712-_	2T-1412-_
		Flush Mounted Lower Front Door*		Right Hinged: 12-2215-_		Left Hinged: 12-2211-_				
30 3/4" Overall Depth			Lower Front Full Length Panel: 20-2212-_		Bottom Panel: 26-1930-_					
10 5/8"	41-1027-23	39-1028-_	11-2211-_	11-2215-_	12-3611-_	12-3615-_	11-3611-_	11-3615-_	20-3612-_	2T-2212-_
17 5/8"	41-1727-23	39-1728-_	11-2211-_	11-2215-_	12-4311-_	12-4315-_	11-4311-_	11-4315-_	20-4312-_	2T-2112-_
21 1/8"	41-2127-23	39-2128-_	11-2211-_	11-2215-_	12-4711-_	12-4715-_	11-4711-_	11-4715-_	20-4712-_	2T-1912-_
		Flush Mounted Lower Front Door*		Right Hinged: 12-2215-_		Left Hinged: 12-2211-_				
For 24" Wide Panels										
22" Overall Depth			Lower Front Full Length Panel: 20-2222-_		Bottom Panel: 26-2422-_					
10 5/8"	41-1025-23	32-1028-_	11-2221-_	11-2225-_	12-3621-_	12-3625-_	11-3621-_	11-3625-_	20-3622-_	2T-1422-_
17 5/8"	41-1725-23	32-1728-_	11-2221-_	11-2225-_	12-4321-_	12-4325-_	11-4321-_	11-4325-_	20-4322-_	2T-1222-_
21 1/8"	41-2125-23	32-2128-_	11-2221-_	11-2225-_	12-4721-_	12-4725-_	11-4721-_	11-4725-_	20-4722-_	2T-1022-_
		Flush Mounted Lower Front Door*		Right Hinged: 12-2225-_		Left Hinged: 12-2221-_				
25 1/2" Overall Depth			Lower Front Full Length Panel: 20-2222-_		Bottom Panel: 26-2425-_					
10 5/8"	41-1026-23	33-1028-_	11-2221-_	11-2225-_	12-3621-_	12-3625-_	11-3621-_	11-3625-_	20-3622-_	2T-1722-_
17 5/8"	41-1726-23	33-1728-_	11-2221-_	11-2225-_	12-4321-_	12-4325-_	11-4321-_	11-4325-_	20-4322-_	2T-1522-_
21 1/8"	41-2126-23	33-2128-_	11-2221-_	11-2225-_	12-4721-_	12-4725-_	11-4721-_	11-4725-_	20-4722-_	2T-1422-_
		Flush Mounted Lower Front Door*		Right Hinged: 12-2225-_		Left Hinged: 12-2221-_				
30 3/4" Overall Depth			Lower Front Full Length Panel: 20-2222-_		Bottom Panel: 26-2430-_					
10 5/8"	41-1028-23	39-1028-_	11-2221-_	11-2225-_	12-3621-_	12-3625-_	11-3621-_	11-3625-_	20-3622-_	2T-2222-_
17 5/8"	41-1728-23	39-1728-_	11-2221-_	11-2225-_	12-4321-_	12-4325-_	11-4321-_	11-4325-_	20-4322-_	2T-2122-_
21 1/8"	41-2128-23	39-2128-_	11-2221-_	11-2225-_	12-4721-_	12-4725-_	11-4721-_	11-4725-_	20-4722-_	2T-1922-_
		Flush Mounted Lower Front Door*		Right Hinged: 12-2225-_		Left Hinged: 12-2221-_				

See Frame Options and Notes on page C5
See Chart on page C4 for Door and Panel Suffix choices

15° Sloped Front Consoles

19" and 24" Panel Widths

See Frame Options and Notes on page C5
See Chart on page C4 for Door and Panel Suffix choices



Top View

19.00" (482.6) Panel Space												
Part No.	A	B	C	D	E	F	G	H	J	K	L	M
41-1022-23	10.62 (269.9)	14.50 (368.3)	14.06 (357.2)	18.25 (463.6)	36.88 (936.6)	40.88 (1038.2)	43.88 (1114.4)	22.00 (558.8)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
41-1023-23	10.62 (269.9)	14.50 (368.3)	17.56 (446.1)	21.75 (552.5)	36.88 (936.6)	40.88 (1038.2)	43.88 (1114.4)	25.50 (647.7)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
41-1027-23	10.62 (269.9)	14.50 (368.3)	22.81 (579.4)	27.00 (685.8)	36.88 (936.6)	40.88 (1038.2)	43.88 (1114.4)	30.75 (781.1)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
41-1722-23	17.62 (447.7)	21.75 (552.5)	12.31 (312.7)	16.38 (415.9)	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	22.00 (558.8)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
41-1723-23	17.62 (447.7)	21.75 (552.5)	15.81 (401.6)	19.88 (504.8)	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	25.50 (647.7)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
41-1727-23	17.62 (447.7)	21.75 (552.5)	21.06 (535.0)	25.12 (638.2)	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	30.75 (781.1)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
41-2122-23	21.12 (536.6)	25.36 (644.1)	10.56 (268.3)	15.44 (392.1)	47.38 (1203.3)	51.38 (1304.9)	54.38 (1381.1)	22.00 (558.8)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
41-2123-23	21.12 (536.6)	25.36 (644.1)	14.06 (357.2)	18.94 (481.0)	47.38 (1203.3)	51.38 (1304.9)	54.38 (1381.1)	25.50 (647.7)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
41-2127-23	21.12 (536.6)	25.36 (644.1)	19.31 (490.5)	24.19 (614.4)	47.38 (1203.3)	51.38 (1304.9)	54.38 (1381.1)	30.75 (781.1)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)

24.00" (609.6) Panel Space												
Part No.	A	B	C	D	E	F	G	H	J	K	L	M
41-1025-23	10.62 (269.9)	14.50 (368.3)	14.06 (357.2)	18.25 (463.6)	36.88 (936.6)	40.88 (1038.2)	43.88 (1114.4)	22.00 (558.8)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
41-1026-23	10.62 (269.9)	14.50 (368.3)	17.56 (446.1)	21.75 (552.5)	36.88 (936.6)	40.88 (1038.2)	43.88 (1114.4)	25.50 (647.7)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
41-1028-23	10.62 (269.9)	14.50 (368.3)	22.81 (579.4)	27.00 (685.8)	36.88 (936.6)	40.88 (1038.2)	43.88 (1114.4)	30.75 (781.1)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
41-1725-23	17.62 (447.7)	21.75 (552.5)	12.31 (312.7)	16.38 (415.9)	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	22.00 (558.8)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
41-1726-23	17.62 (447.7)	21.75 (552.5)	15.81 (401.6)	19.88 (504.8)	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	25.50 (647.7)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
41-1728-23	17.62 (447.7)	21.75 (552.5)	21.06 (535.0)	25.12 (638.2)	43.88 (1114.4)	47.88 (1216.0)	50.88 (1292.2)	30.75 (781.1)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
41-2125-23	21.12 (536.6)	25.36 (644.1)	10.56 (268.3)	15.44 (392.1)	47.38 (1203.3)	51.38 (1304.9)	54.38 (1381.1)	22.00 (558.8)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
41-2126-23	21.12 (536.6)	25.36 (644.1)	14.06 (357.2)	18.94 (481.0)	47.38 (1203.3)	51.38 (1304.9)	54.38 (1381.1)	25.50 (647.7)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
41-2128-23	21.12 (536.6)	25.36 (644.1)	19.31 (490.5)	24.19 (614.4)	47.38 (1203.3)	51.38 (1304.9)	54.38 (1381.1)	30.75 (781.1)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)

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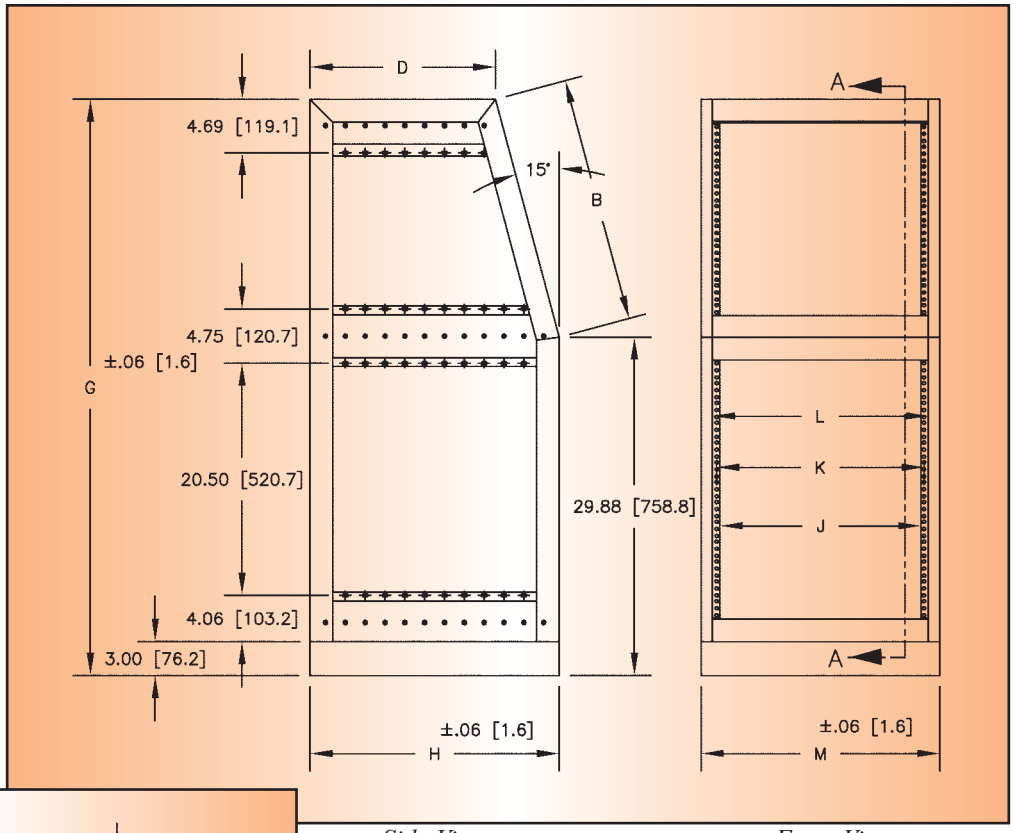
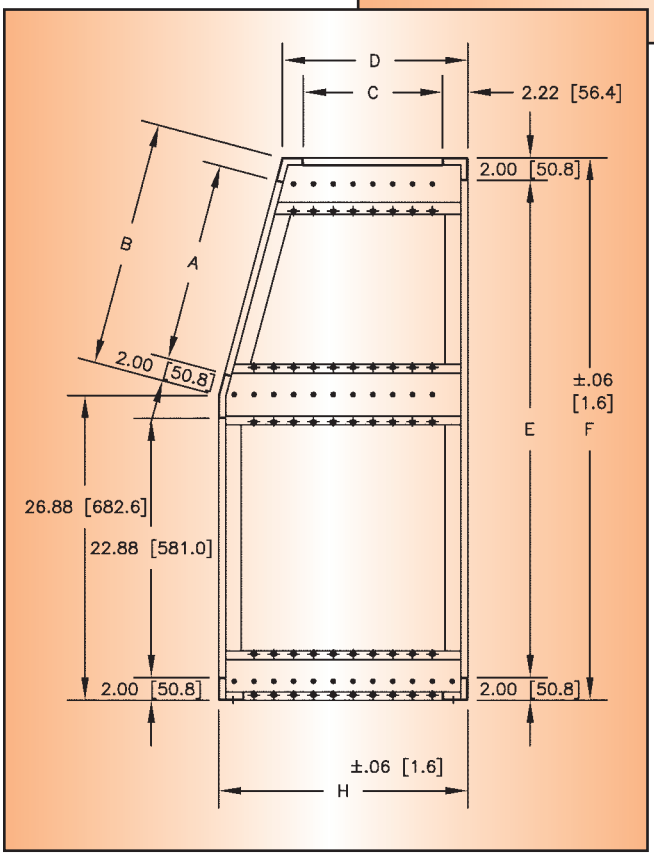
15° Sloped Front Consoles



Side View *Front View*



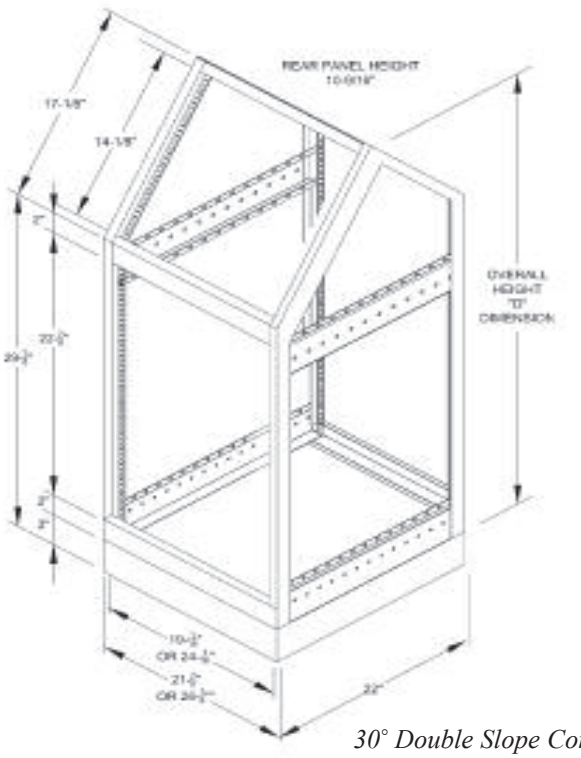
Section A-A

30° Double Slope Consoles

Challenger 30° Double Slope Consoles are an innovative approach solving the problem of furnishing ample sloped panel space combined with the low silhouette required in many console applications. They are designed to be used with monitors or CRT, as well as Console Shelf or Work/Writing Shelf. Sloped Front Consoles are furnished with adjustable Vertical Mounting Rails in the lower panel openings. The overall height is 44 45/64". They are also available in two widths and one depth. Please see Product Features for exact sizes available.

Product Features

- 14-gauge steel frame with all-welded construction
- Front panel slope is 30° from the vertical
- Vertical Mounting Rails in sloped openings are removable, but not adjustable.
- Available in 19" and 24" Panel Widths
- Available in 22" Panel Depth



30° Double Slope Console

DOUBLE SLOPE CONSOLES
For 30° Double Slope Cabinet Frames

Panel Width	Part No. of Frame	Flush* Mounted Doors Lower Front		Face* Mounted Doors Lower Front		Flush* Mounted Doors Full Length Rear		Face* Mounted Doors Full Length Rear		Lower Front Full Length Panel	Rear Full Length Panel	Rear Sloped Panel	Bottom Panel
		Left Hinged	Right Hinged	Left Hinged	Right Hinged	Left Hinged	Right Hinged	Left Hinged	Right Hinged				
22" Overall Depth		Side Panels (Left Hand or Right Hand): 35-1451-__											
19"	42-1452-23	12-2211-_	12-2215-_	11-2211-_	11-2215-_	12-2911-_	12-2915-_	11-2911-_	11-2915-_	20-2212-_	20-2912-_	20-1012-_	26-1922-_
24"	42-1455-23	12-2221-_	12-2225-_	11-2221-_	11-2225-_	12-2921-_	12-2925-_	11-2921-_	11-2925-_	20-2222-_	20-2922-_	20-1022-_	26-2422-_

*Iff Door Lock required, specify with lock and add suffix-***LK** to door part number.

See Frame Options and Notes on page C5

PANEL AND DOOR SUFFIX

Type of Door or Panel	Plain	Louvered				Grilled						Perforated
						With Filter			Without Filter			
		Top	Bottom	Top & Bottom	Fully	Top	Bottom	Top & Bottom	Top	Bottom	Top & Bottom	
Side Panel/LH	21		23							27		
Side Panel/RH	31		33							37		
Flush & Face Mtd. Door	46	12	13	14	11	62	63	64	22	23	24	
Front & Rear Panels	46	12	13	14	11	62	63	64	22	23	24	31
Rear Sloped Panel	46				11	65			25			31
Bottom Panel	01						06			02		

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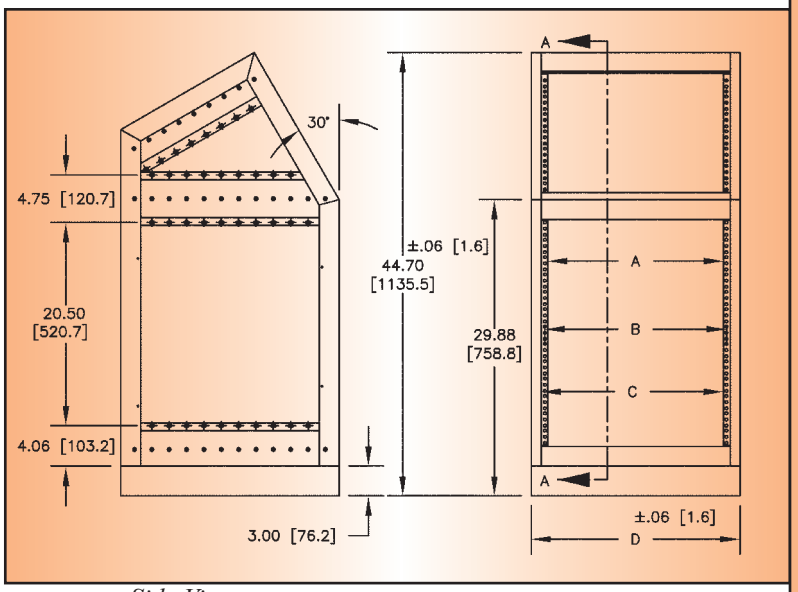
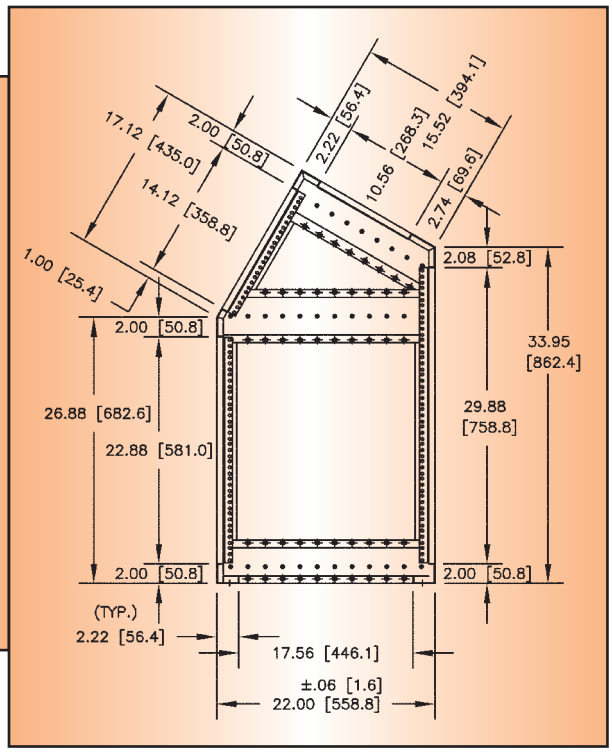
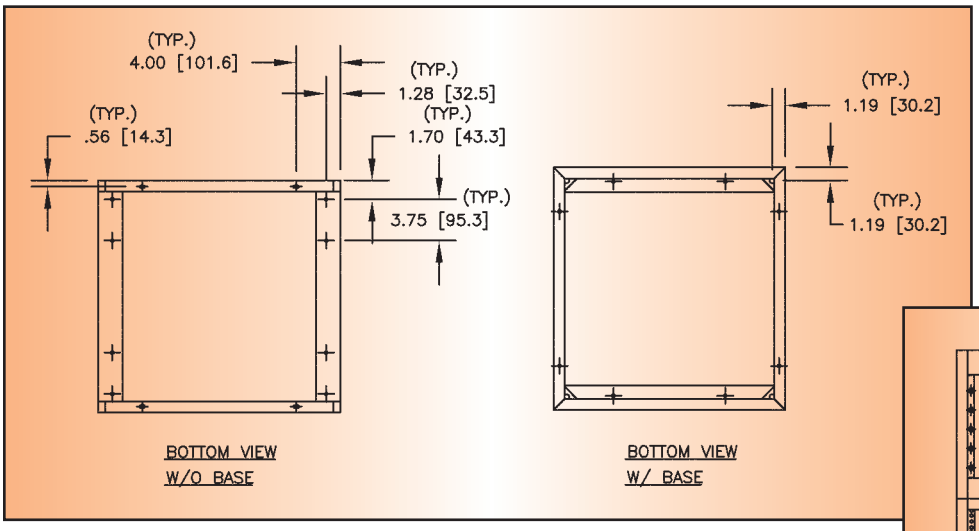
30° Double Slope Consoles



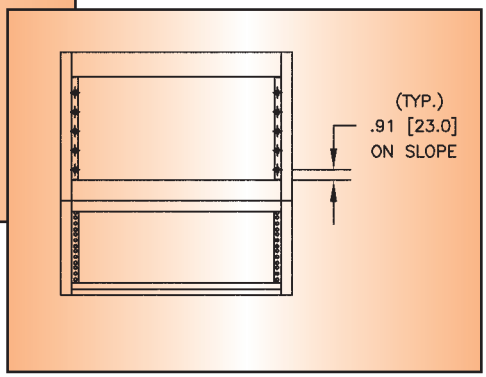
Side View *Front View*



Section A-A with PMA's



Bottom View without Base *Bottom View with Base*



Top View

Part No.	A	B	C	D
42-1452-23	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
42-1455-23	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)

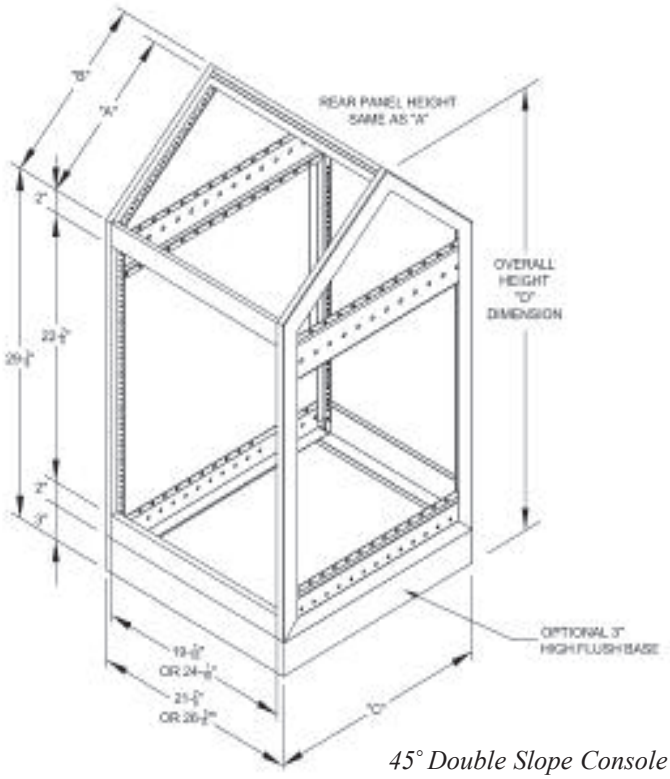
See Frame Options and Notes on page C5

45° Double Slope Consoles

The Challenger 45° Double Slope Consoles are the newest approach in solving the problem of furnishing ample sloped panel space combined with the low silhouette required in many console applications. The Double Slope Console Frames can be joined side-by-side and are adaptable with the use of Work/Writing Shelves. These Consoles are furnished with adjustable Vertical Mounting Rails in the lower panel openings. The overall height can be as low as 40 7/8". They are also available in two widths and two depths. Please see Product Features for exact sizes available.

Product Features

- 14-gauge steel frame with all-welded construction
- Optional removable flush bases made of 14-gauge cold rolled steel
- Slope of Front and Rear Panels is 45° from the vertical
- Vertical Mounting Rails in sloped openings are removable, but not adjustable.
- Available in 19" and 24" Panel Widths
- Available in 22" and 25 1/2" Panel Depths



45° Double Slope Console

DOUBLE SLOPE CONSOLES
For 45° Double Slope Cabinet Frames

Panel Depth	Part No. of Frame**	Side Panels LH or RH	Flush* Mounted Doors Lower Front or Rear		Face* Mounted Doors Lower Front or Rear		Lower Front or Rear Full Length Panel	Front or Rear Sloped Panels	Bottom Panel
			Left Hinged	Right Hinged	Left Hinged	Right Hinged			
For 22" and 25 1/2" Deep, 19" Wide 45° Double Slope Cabinet Frame									
22"	42-1462-23	35-1461-_	12-2211-_	12-2215-_	11-2211-_	11-2215-_	20-2212-_	20-1412-_	26-1922-_
25 1/2"	42-1563-23	36-1561-_	12-2211-_	12-2215-_	11-2211-_	11-2215-_	20-2212-_	20-1512-_	26-1925-_
For 22" and 25 1/2" Deep, 24" Wide 45° Double Slope Cabinet Frame									
22"	42-1465-23	35-1461-_	12-2221-_	12-2225-_	11-2221-_	11-2225-_	20-2222-_	20-1422-_	26-2422-_
25 1/2"	42-1566-23	36-1561-_	12-2221-_	12-2225-_	11-2221-_	11-2225-_	20-2222-_	20-1522-_	26-2425-_

* If Door Lock required, specify with lock and add suffix-***LK*** to door part number.

See Frame Options and Notes on page C5

See Chart on page C24 for Door and Panel Suffix choices

19" and 24" Wide Panel Space				
Part No.	**A**	**B**	**C**	**D**
42-1462-23	14 1/8"	15 9/16"	22"	40 7/8"
42-1563-23	15 7/8"	18 1/32"	25 1/2"	42 5/8"
42-1465-23	14 1/8"	15 9/16"	22"	40 7/8"
42-1566-23	15 7/8"	18 1/32"	25 1/2"	42 5/8"

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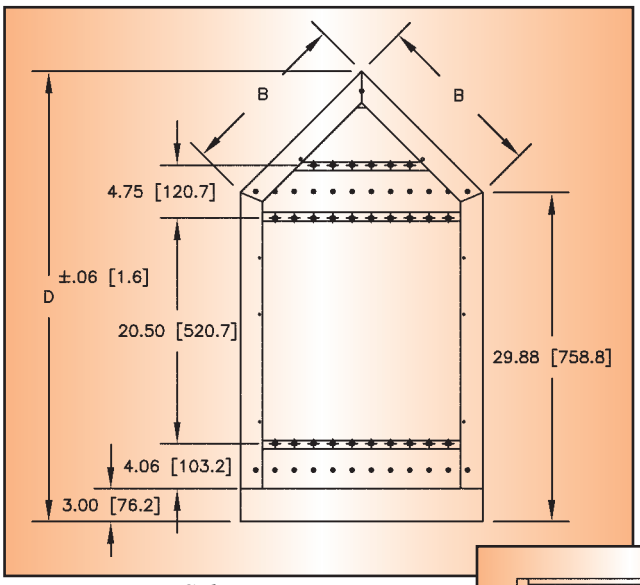
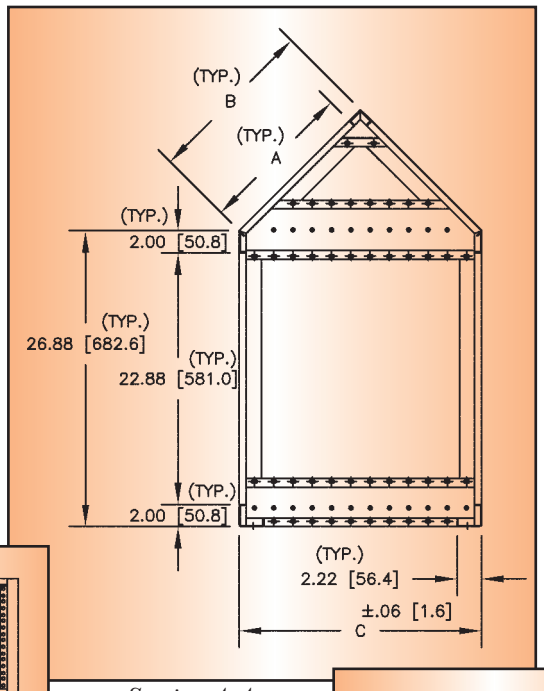
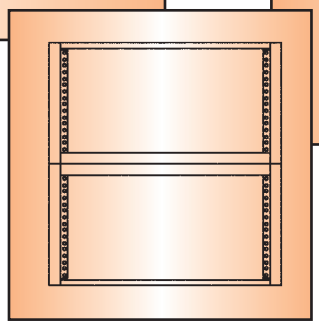
45° Double Slope Consoles



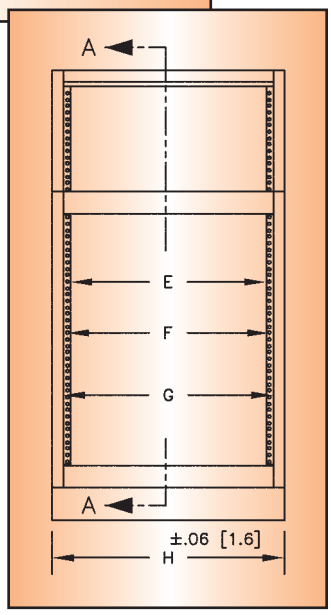
Side Views



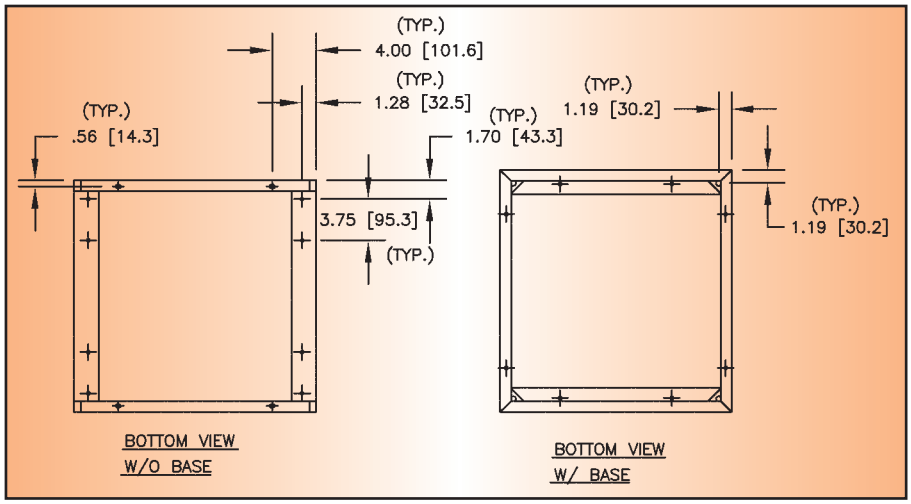
Section A-A



Top View



Front View



Bottom View without Base *Bottom View with Base*

See Frame Options and Notes on page C5

Part No.	A	B	C	D	E	F	G	H
42-1462-23	14.12 (358.8)	15.56 (395.3)	22.00 (558.8)	40.88 (1038.2)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
42-1563-23	15.88 (403.2)	18.03 (458.0)	25.50 (647.7)	42.62 (1082.7)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
42-1465-23	14.12 (358.8)	15.56 (395.3)	22.00 (558.8)	40.88 (1038.2)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
42-1566-23	15.88 (403.2)	18.03 (458.0)	25.50 (647.7)	42.62(1082.7)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)

45° Low Profile Frame

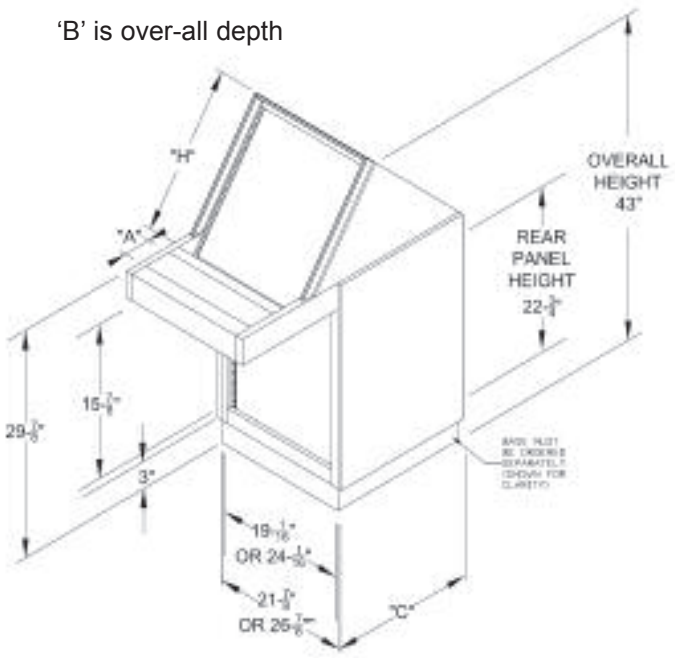
The Challenger 45° Low Profile Frame is designed to furnish the largest possible Slope Panel space. At the same time it also allows low overall height for operator view. The Extended arm can be used as a writing surface or can be used to mount additional instrument panels. It is also available in two slope panel heights, two widths and two depths. The overall height is 43". Please see Product Features for exact sizes available.

Product Features

- 14-gauge steel frame with all-welded construction
- Extended Arm flexible for writing surface or to mount additional instrument panels
- Available in 19" and 24" Panel Widths
- Available in 22" and 25 1/2" Panel Depths

See Frame Options and Notes on page C5

'B' is over-all depth



45° Low Profile Frame

Part No.	A	B	C	D	E	F	G	H
44-2032-03	3.62 (92.1)	37.00 (939.8)	22.00 (558.8)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)	19.31 (940.5)
44-2072-03	7.12 (181.0)	40.50 (1028.7)	22.00 (558.8)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)	19.31 (940.5)
44-3032-03	3.62 (92.1)	37.00 (939.8)	25.50 (647.7)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)	19.31 (940.5)
44-3072-03	7.12 (181.0)	40.50 (1028.7)	25.50 (647.7)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)	19.31 (940.5)
45-3032-03	3.62 (92.1)	38.75 (984.3)	25.50 (647.7)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)	21.12 (536.6)
45-3072-03	7.12 (181.0)	42.25 (1073.2)	25.50 (647.7)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)	21.12 (536.6)
44-5032-03	3.62 (92.1)	37.00 (939.8)	22.00 (558.8)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)	19.31 (940.5)
44-5072-03	7.12 (181.0)	40.50 (1028.7)	22.00 (558.8)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)	19.31 (940.5)
44-6032-03	3.62 (92.1)	37.00 (939.8)	25.50 (647.7)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)	19.31 (940.5)
44-6072-03	7.12 (181.0)	40.50 (1028.7)	25.50 (647.7)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)	19.31 (940.5)
45-6032-03	3.62 (92.1)	38.75 (984.3)	25.50 (647.7)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)	21.12 (536.6)
45-6072-03	7.12 (181.0)	42.25 (1073.2)	25.50 (647.7)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)	21.12 (536.6)

Note: See page C30 for details and the 'D' through 'G' dimensions

PANEL AND DOOR SUFFIX												
Type of Door or Panel	Plain	Louvered				Grilled						Perforated
						With Filter			Without Filter			
		Top	Bottom	Top & Bottom	Fully	Top	Bottom	Top & Bottom	Top	Bottom	Top & Bottom	
Side Panel/LH	11	22	23	24	25				26	27	18	
Side Panel/RH	11	22	33	34	35				36	37	18	
Flush & Face Mtd. Door	46	12	13	14	11	62	63	64	22	23	24	
Front & Rear Panels	46	12	13	14	11	62	63	64	22	23	24	31*
Rear Sloped Panel	46				11	65			25			31
Bottom Panel	01						06			02		

**Available to 28" high panel space*

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**See Frame Options and Notes on page C5

45° LOW PROFILE FRAME For 19" Wide Panels											
Part No. of Frame**	Side Panels LH or RH (1)	Flush* Mounted Doors Lower Front		Flush* Mounted Doors Full Length Rear		Face* Mounted Doors Full Length Rear		Rear Slope Panel	Extended Arm Panels	
		Left Hinged	Right Hinged	Left Hinged	Right Hinged	Left Hinged	Right Hinged		Steel	Plastic Laminate
22" Overall Depth										
44-2032-03	30-2228-_	12-1511-46	12-1515-46	12-2211-_	12-2215-_	11-2211-_	11-2215-_	20-1412-_	20-0312-46	24-1903-01
44-2072-03	30-2228-_	12-1511-46	12-1515-46	12-2211-_	12-2215-_	11-2211-_	11-2215-_	20-1412-_	20-0712-46	24-1907-01
		Lower Front Panel	20-1512-_							
		Lower Rear Panel	20-2212-_							
		Bottom Panel	26-1922-_							
25 1/2" Overall Depth										
44-3032-03	30-2238-_	12-1511-46	12-1515-46	12-2211-_	12-2215-_	11-2211-_	11-2215-_	20-1412-_	20-0312-46	24-1903-01
44-3072-03	30-2238-_	12-1511-46	12-1515-46	12-2211-_	12-2215-_	11-2211-_	11-2215-_	20-1412-_	20-0712-46	24-1907-01
45-3032-03	30-2238-_	12-1511-46	12-1515-46	12-2211-_	12-2215-_	11-2211-_	11-2215-_	20-1412-_	20-0312-46	24-1903-01
45-3072-03	30-2238-_	12-1511-46	12-1515-46	12-2211-_	12-2215-_	11-2211-_	11-2215-_	20-1412-_	20-0712-46	24-1907-01
		Lower Front Panel	20-1512-_							
		Lower Rear Panel	20-2212-_							
		Bottom Panel	26-1925-_							

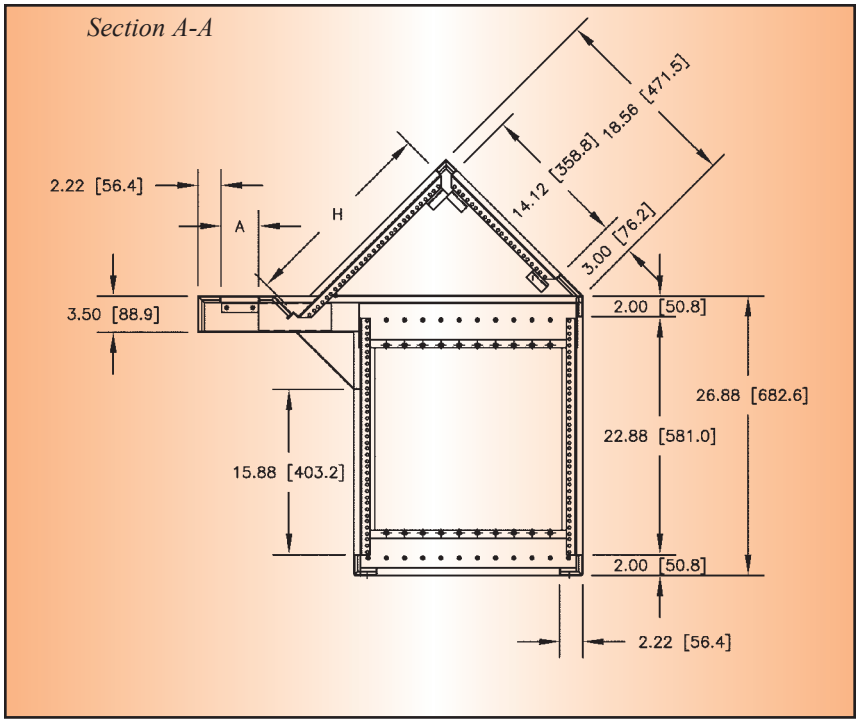
45° LOW PROFILE FRAME For 24" Wide Panels											
Part No. of Frame**	Side Panels LH or RH (1)	Flush* Mounted Doors Lower Front		Flush* Mounted Doors Full Length Rear		Face* Mounted Doors Full Length Rear		Rear Slope Panel	Extended Arm Panels	
		Left Hinged	Right Hinged	Left Hinged	Right Hinged	Left Hinged	Right Hinged		Steel	Plastic Laminate
22" Overall Depth										
44-5032-03	30-2228-_	12-1521-46	12-1525-46	12-2221-_	12-2225-_	11-2221-_	11-2225-_	20-1422-_	20-0322-46	24-2403-01
44-5072-03	30-2228-_	12-1521-46	12-1525-46	12-2221-_	12-2225-_	11-2221-_	11-2225-_	20-1422-_	20-0722-46	24-2407-01
		Lower Front Panel	20-1522-_							
		Lower Rear Panel	20-2222-_							
		Bottom Panel	26-2422-_							
25 1/2" Overall Depth										
44-6032-03	30-2238-_	12-1521-46	12-1525-46	12-2221-_	12-2225-_	11-2221-_	11-2225-_	20-1422-_	20-0322-46	24-2403-01
44-6072-03	30-2238-_	12-1521-46	12-1525-46	12-2221-_	12-2225-_	11-2221-_	11-2225-_	20-1422-_	20-0722-46	24-2407-01
45-6032-03	30-2238-_	12-1521-46	12-1525-46	12-2221-_	12-2225-_	11-2221-_	11-2225-_	20-1422-_	20-0322-46	24-2403-01
45-6072-03	30-2238-_	12-1521-46	12-1525-46	12-2221-_	12-2225-_	11-2221-_	11-2225-_	20-1422-_	20-0722-46	24-2407-01
		Lower Front Panel	20-1522-_							
		Lower Rear Panel	20-2222-_							
		Bottom Panel	26-2425-_							

(1) Universal Side Panels are externally removable with a slide-lift motion with provisions for fastening internally

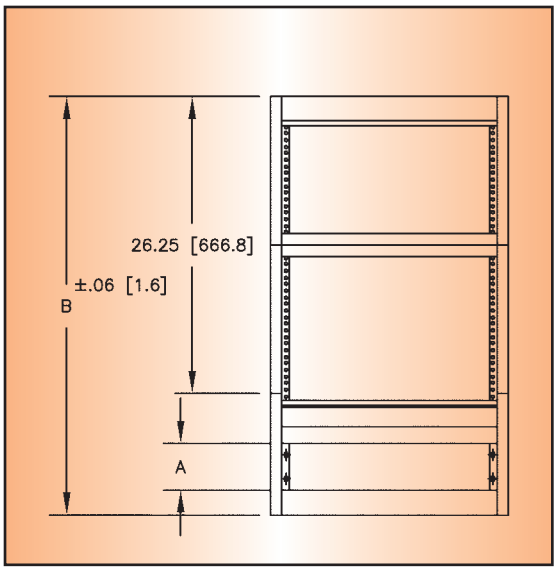
* If Door Lock required, specify with lock and add suffix-LK to door part number.

45° Low Profile Frame

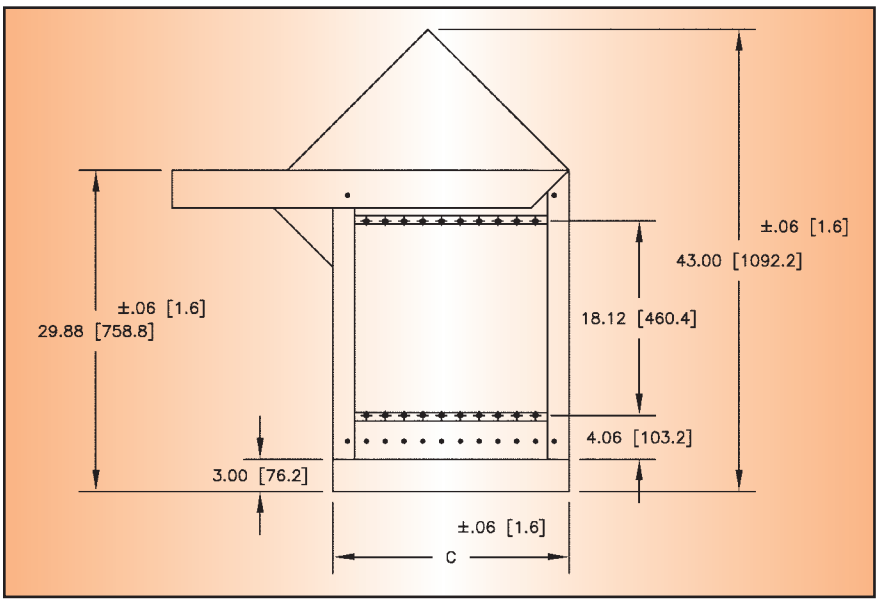
Section A-A

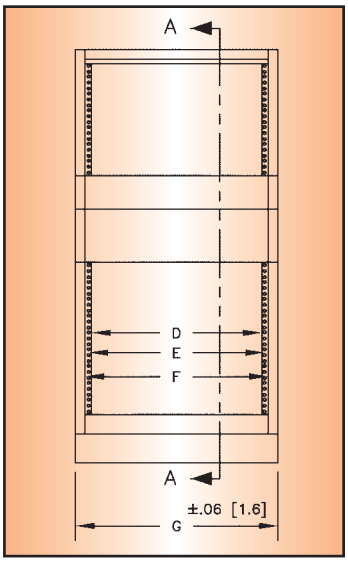


Top View



Side View





Front View

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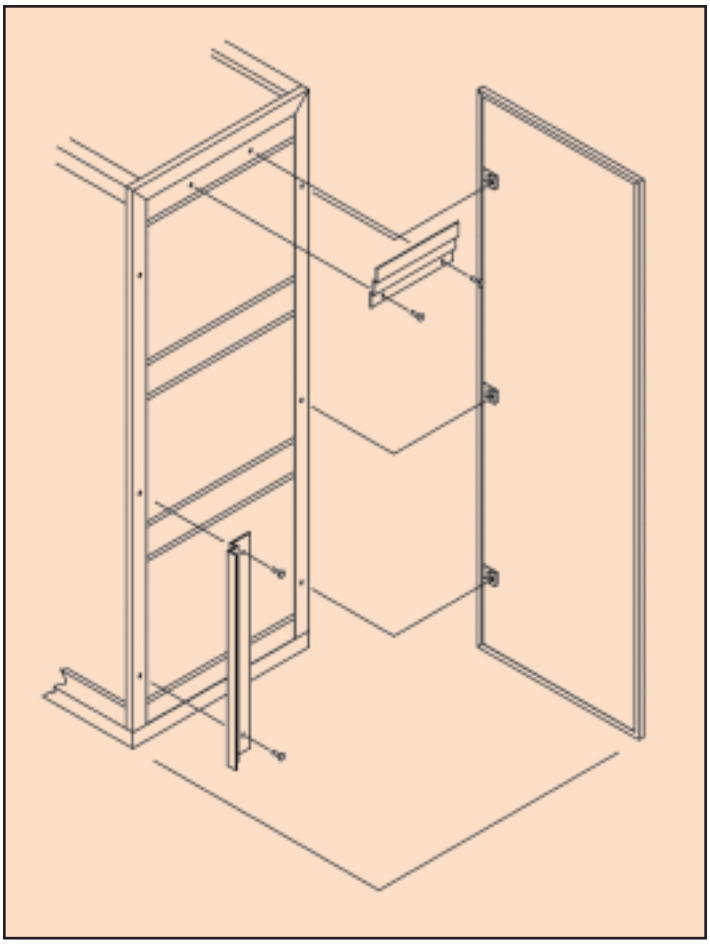
Universal Side Panels are Safety Engineered

Universal Side Panels in the Challenger System are unique because they can be securely fastened from the inside of the cabinet to prevent tampering, or they can be easily removed externally where ease of access is most important. Universal Side Panels are easily removed—simply slide forward a few inches which allows a firm hand hold and lift upward and free of the frame. These panels will not jam or pop-off unexpectedly which could injure the handler. Please see diagram below for details.



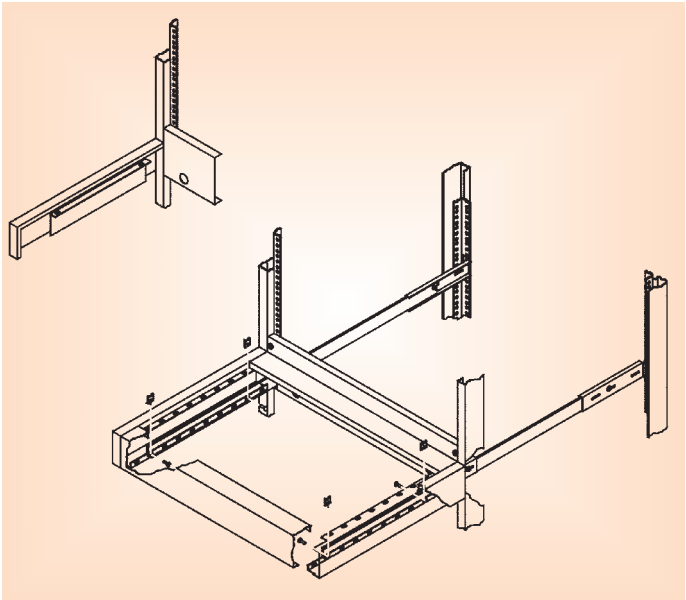
Mounting of Universal Side Panels to Challenger Vertical Rack frame

Note: When mounted in a Vertical Rack frame, the Writing Shelf consumes 5 1/4" of panel space. When mounted in Sloped abinets, the shelf consumes 1 3/4" of panel space.

*When ordering, specify if Work/Writing Shelf Frames are to be use with Vertical Rack or Slope Console by adding one of the appropriate suffixes shown below:

If used with a vertical rack frame add -VR

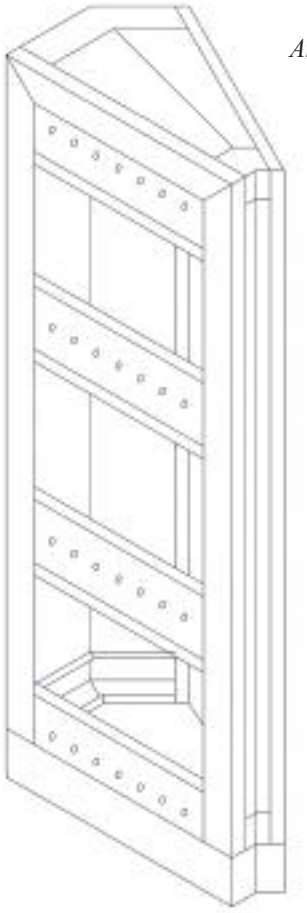
If used with a slope front frame add -SF



Mounting details for Writing Top

30° & 45° Angular Vertical Rack Frames

The Challenger 30° and 45° Angular Vertical Rack Frames are used to create semicircular or angular configurations. They are designed to line up perfectly with the frames to be joined. All Panels are removable from the outside of the cabinet. The Angular Frames include the top panel, rear panel, front panel and base, although the frames can be ordered with or without a base. They are also available in nine panel heights, 30° and 45° angles and five depths. Please see Product Features for exact sizes available.



Angular Vertical Rack Frame

Product Features

- 14-gauge steel frame with all-welded construction
- 16-gauge top, front and rear panels
- Available in 9 overall heights
- Available in 18 1/2", 22", 25 1/2", 30 3/4" and 36" Panel Depths

VERTICAL RACK FRAMES
For 30° and 45° Angular Frames

For Vertical Rack Cabinets			Use 30° Angular Frame Number (2)	Use 45° Angular Frame Number (2)
If Part Number of Vertical Rack is	With a Front Panel Height of	With an Overall Height of (1)		
For 18 1/2" Deep Vertical Rack Cabinet Frame				
40-2212-03	40-2242-03	22 7/8"	29 7/8"	50-3022-12	50-4522-12
40-2912-03	40-2942-03	29 7/8"	36 7/8"	50-3029-12	50-4529-12
40-3512-03	40-3542-03	35 1/8"	42 1/8"	50-3035-12	50-4535-12
40-4012-03	40-4042-03	40 3/8"	47 3/8"	50-3040-12	50-4540-12
40-4312-03	40-4342-03	43 7/8"	50 7/8"	50-3043-12	50-4543-12
40-5212-03	40-5242-03	52 5/8"	59 5/8"	50-3052-12	50-4552-12
40-6112-03	40-6142-03	61 3/8"	68 3/8"	50-3061-12	50-4561-12
40-7012-03	40-7042-03	70 1/8"	77 1/8"	50-3070-12	50-4570-12
40-7812-03	40-7842-03	78 7/8"	85 7/8"	50-3078-12	50-4578-12
For 22" Deep Vertical Rack Cabinet Frame				
40-2222-03	40-2252-03	22 7/8"	29 7/8"	50-3022-22	50-4522-22
40-2922-03	40-2952-03	29 7/8"	36 7/8"	50-3029-22	50-4529-22
40-3522-03	40-3552-03	35 1/8"	42 1/8"	50-3035-22	50-4535-22
40-4022-03	40-4052-03	40 3/8"	47 3/8"	50-3040-22	50-4540-22
40-4322-03	40-4352-03	43 7/8"	50 7/8"	50-3043-22	50-4543-22
40-5222-03	40-5252-03	52 5/8"	59 5/8"	50-3052-22	50-4552-22
40-6122-03	40-6152-03	61 3/8"	68 3/8"	50-3061-22	50-4561-22
40-7022-03	40-7052-03	70 1/8"	77 1/8"	50-3070-22	50-4570-22
40-7822-03	40-7852-03	78 7/8"	85 7/8"	50-3078-22	50-4578-22
For 25 1/2" Deep Vertical Rack Cabinet Frame				
40-2232-03	40-2262-03	22 7/8"	29 7/8"	50-3022-32	50-4522-32
40-2932-03	40-2962-03	29 7/8"	36 7/8"	50-3029-32	50-4529-32
40-3532-03	40-3562-03	35 1/8"	42 1/8"	50-3035-32	50-4535-32
40-4032-03	40-4062-03	40 3/8"	47 3/8"	50-3040-32	50-4540-32
40-4332-03	40-4362-03	43 7/8"	50 7/8"	50-3043-32	50-4543-32
40-5232-03	40-5262-03	52 5/8"	59 5/8"	50-3052-32	50-4552-32
40-6132-03	40-6162-03	61 3/8"	68 3/8"	50-3061-32	50-4561-32
40-7032-03	40-7062-03	70 1/8"	77 1/8"	50-3070-32	50-4570-32
40-7832-03	40-7862-03	78 7/8"	85 7/8"	50-3078-32	50-4578-32
For 30 3/4" Deep Vertical Rack Cabinet Frame				
40-2272-03	40-2282-03	22 7/8"	29 7/8"	50-3022-42	50-4522-42
40-2972-03	40-2982-03	29 7/8"	36 7/8"	50-3029-42	50-4529-42
40-3572-03	40-3582-03	35 1/8"	42 1/8"	50-3035-42	50-4535-42
40-4072-03	40-4082-03	40 3/8"	47 3/8"	50-3040-42	50-4540-42
40-4372-03	40-4382-03	43 7/8"	50 7/8"	50-3043-42	50-4543-42
40-5272-03	40-5282-03	52 5/8"	59 5/8"	50-3052-42	50-4552-42
40-6172-03	40-6182-03	61 3/8"	68 3/8"	50-3061-42	50-4561-42
40-7072-03	40-7082-03	70 1/8"	77 1/8"	50-3070-42	50-4570-42
40-7872-03	40-7882-03	78 7/8"	85 7/8"	50-3078-42	50-4578-42

(1) Overall height includes 3" for base. Addition of casters adds 1" to overall height

(2) Specify with base, without base or with casters

For 36" Deep Vertical Rack Cabinet Frame					
40-2292-03	40-2202-03	22 7/8"	29 7/8"	50-3022-52	50-4522-52
40-2992-03	40-2902-03	29 7/8"	36 7/8"	50-3029-52	50-4529-52
40-3592-03	40-3502-03	35 1/8"	42 1/8"	50-3035-52	50-4535-52
40-4092-03	40-4002-03	40 3/8"	47 3/8"	50-3040-52	50-4540-52
40-4392-03	40-4302-03	43 7/8"	50 7/8"	50-3043-52	50-4543-52
40-5292-03	40-5202-03	52 5/8"	59 5/8"	50-3052-52	50-4552-52
40-6192-03	40-6102-03	61 3/8"	68 3/8"	50-3061-52	50-4561-52
40-7092-03	40-7002-03	70 1/8"	77 1/8"	50-3070-52	50-4570-52
40-7892-03	40-7802-03	78 7/8"	85 7/8"	50-3078-52	50-4578-52

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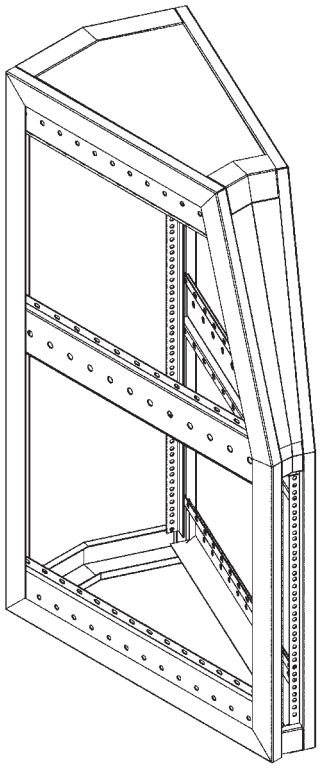
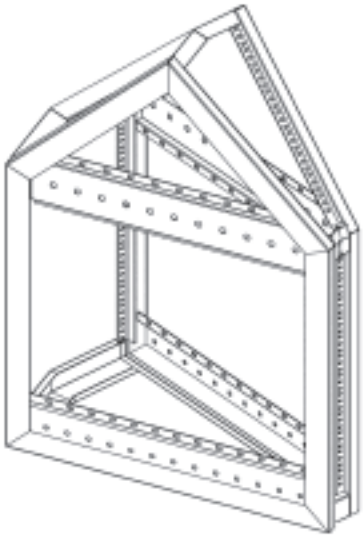
30° & 45° Angular Vertical Rack Frames

15° and 45° Double Slope Console Frames



Angular Frame for 15° Slope Front Console

VERTICAL RACK FRAMES 30° and 45° Angular Frames For 15° Slope Front Consoles					
For Slope Front Consoles				Use 30° Angular Frame Number	Use 45° Angular Frame Number
If Part Number of Frame is		With an Overall Height of (1)	With a Sloped Panel Height of		
For 22" Deep Slope Front Consoles					
41-1022-23	41-1025-23	43 7/8"	10 5/8"	51-3210-22	51-4210-22
41-1722-23	41-1725-23	50 7/8"	17 5/8"	51-3217-22	51-4217-22
41-2122-23	41-2125-23	54 3/8"	21 1/8"	51-3221-22	51-4221-22
For 25 1/2" Deep Slope Front Consoles					
41-1023-23	41-1026-23	43 7/8"	10 5/8"	51-3210-32	51-4210-32
41-1723-23	41-1726-23	50 7/8"	17 5/8"	51-3217-32	51-4217-32
41-2123-23	41-2126-23	54 3/8"	21 1/8"	51-3221-32	51-4221-32
For 30 3/4" Deep Slope Front Consoles					
41-1027-23	41-1028-23	43 7/8"	10 5/8"	51-3210-42	51-4210-42
41-1727-23	41-1728-23	50 7/8"	17 5/8"	51-3217-42	51-4217-42
41-2127-23	41-2128-23	54 3/8"	21 1/8"	51-3221-42	51-4221-42



Angular Frame for 45° Double Slope Console Frame

VERTICAL RACK FRAMES 30° and 45° Angular Frames For 45° Double Slope Consoles					
For Slope Front Consoles				Use 30° Angular Frame Number (2)	Use 45° Angular Frame Number (2)
If Part Number of Frame is		With an Overall Height of (1)	With a Sloped Panel Height of		
For 22" Deep Slope Front Consoles					
42-1462-23	42-1465-23	40 7/8"	14 1/8"	52-3614-22	52-4614-22
For 25 1/2" Deep Slope Front Consoles					
42-1563-23	42-1566-23	42 5/8"	15 7/8"	52-3615-32	52-4615-32

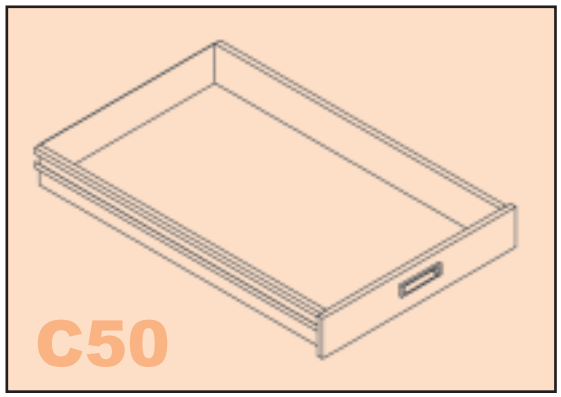
(1) Overall height includes 3" for base. Addition of casters adds 1" to overall height
(2) Specify with base, without base or with casters

Accessories Index

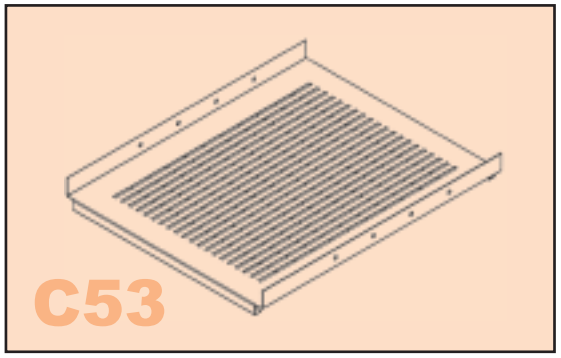
Accessories for the most effective use of the Challenger System

The Enclosure System of Modular Cabinets is the most efficient and advanced way to house electronic equipment and instrumentation. At Equipto, we offer the flexibility, versatility and functionality you need, therefore also offering a wide selection of compatible accessories. Our engineers have developed a line of accessories for use with the Equipto Enclosure System, which are functional, dependable and ruggedly built to compliment the use of the basic cabinets in the Equipto Enclosure System of your choice.

The accessories which are available to you include; Flush Frame Bases, Cabinet Trucks, Storage Drawers, Sliding Shelves and many styles of Work/Writing Shelves, Turrets and Laminated Plastic Tops.



Storage Drawer



Equipment Shelf with Grill

bases & base accessories

C36 Flush Frame Bases
C38 Caster Mounting Brackets
C38 Casters for Flush Bases
C36 Leveling Glides
C36 Anti-Tip Legs
C39 Trucks, Flush
C41 Trucks, Extended
C40 Casters for Trucks
C40 Floor Locks for Trucks

panels

C36 Bottom Panels
C46 Formed (5/8" Thick) Instrument Panels
C58 Insert Panels (Steel and Plastic Laminate)
C49 Flat (1/8" Thick) Instrument Panels
C49 Panel Shims

shelves - internal

C53 Equipment Shelves, Plain or Grilled
C51 Hinged Drawer Shelves
C59 Modem Shelves
C52 "Pull-Out" Convenience Shelf
C52 Sliding Chassis Shelves

shelves - external

C55 Console Shelves (Laminated Plastic)
C56 Angular Console Shelves (Laminated Plastic)
C54 Work Writing Shelves, Steel Frame
C57 Work/Writing Insert Panels, Steel or Laminated

miscellaneous accessories

C59 Buss Bars, Insulated Copper
C53 Chassis Supports
C64 Hardware and Gasketing
C45 Lift Bolts
C44 Vertical Mounting Rails
C45 Power Strips
C50 Storage Drawer
C65 Trim Kits
C60 Turrets, Single
C61 Turrets, Double Slope

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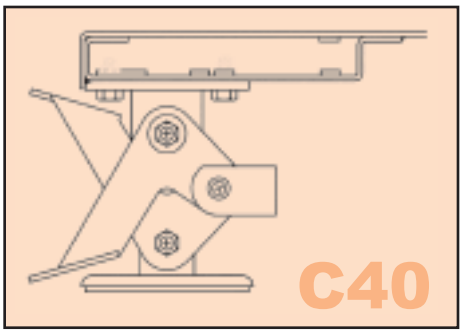
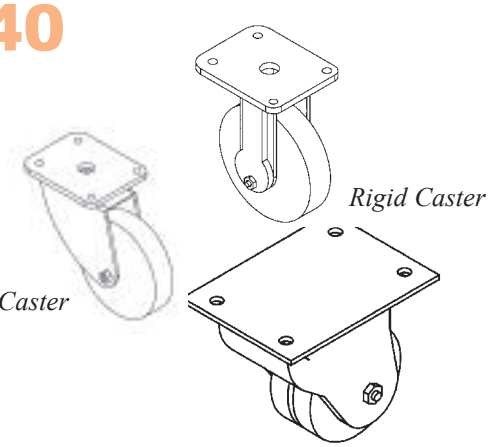
Accessories Index



Floor Lock

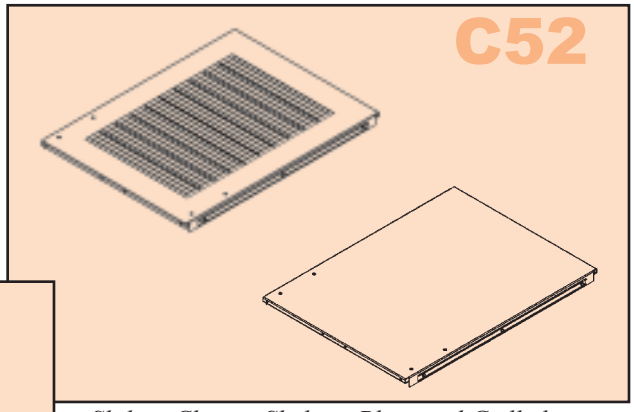
C40



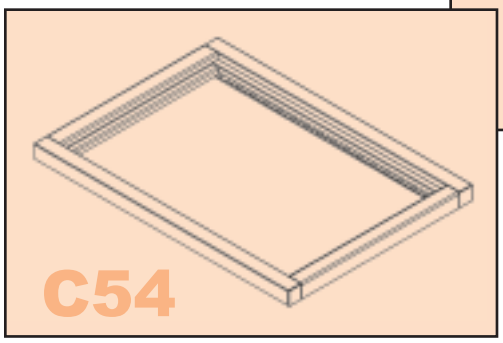
Dual wheel Caster

C60 & C61

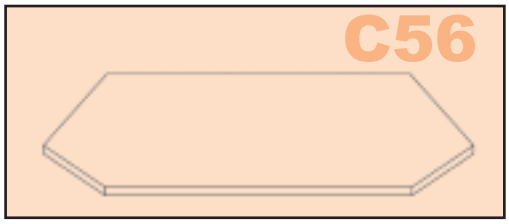
Single and Double Slope Turrets



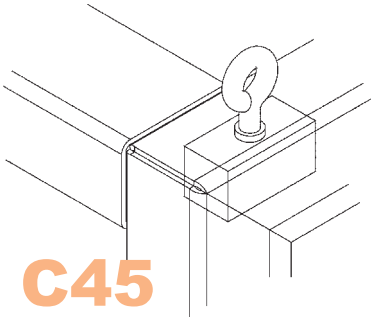
Sliding Chassis Shelves, Plain and Grilled



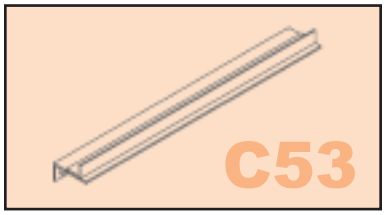
Work/Writing Shelf Steel Frame



Laminated Plastic Angular Console Shelf



Lift Bolt



Chassis Supports

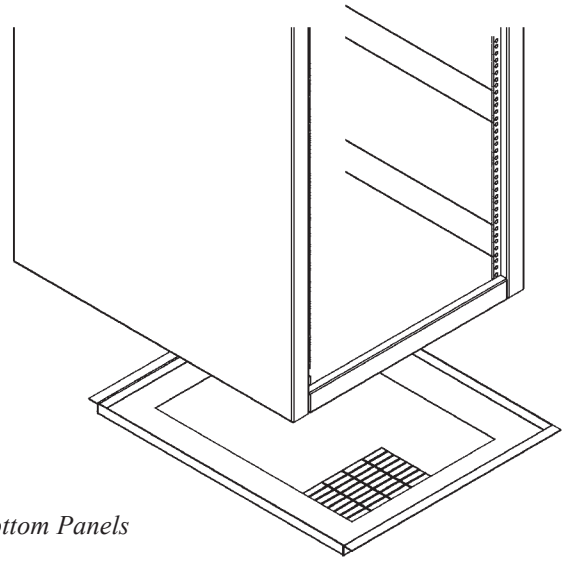
Flush Frame Bases and Bottom Panels

Formed Bottom Panels

Formed Bottom Panels are available plain or grilled and are designed to be used to close the bottom opening in all Challenger Vertical Rack, Sloped Front Console and Low Profile Frames. They can be installed with the frame in an upright position, and are usually installed in and shipped with the cabinet frame.

Product Features

- Made of 16-gauge cold-rolled steel
- Available plain or grilled in five depths and two widths



Bottom Panels

Bottom Panels			
	Overall Depth of Frame	Plain Part No.	Grilled Part No.
19”	18 1/2”	26-1918-01	26-1918-02
	22”	26-1922-01	26-1922-02
	25 1/2”	26-1925-01	26-1925-02
	30 3/4”	26-1930-01	26-1930-02
	36”	26-1936-01	26-1936-02
24”	18 1/2”	26-2418-01	26-2418-02
	22”	26-2422-01	26-2422-02
	25 1/2”	26-2425-01	26-2425-02
	30 3/4”	26-2430-01	26-2430-02
	36”	26-2436-01	26-2436-02

Flush Frame Bases

Flush Frame Bases are flush with all sides of the cabinet frame. They are painted with a baked enamel to match the cabinet frame to which they are attached. They are available in two panel widths including; 19” and 24”, as well as five panel depths including; 18 1/2”, 22”, 25 1/2”, 30 3/4” and 36”.

Product Features

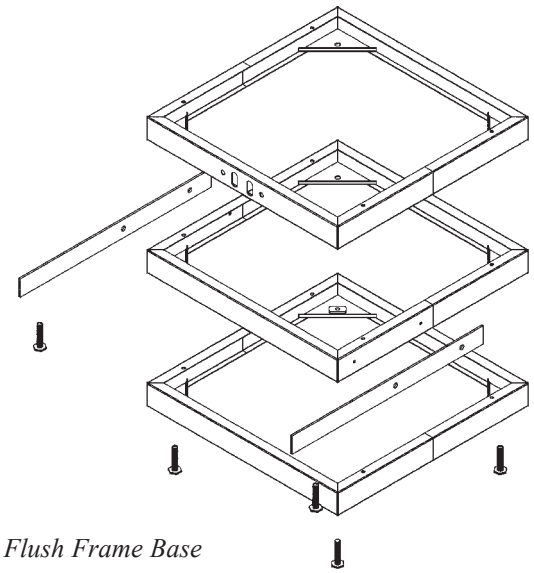
- Reinforced channel design
- Painted with baked enamel to match cabinet frame

FLUSH FRAME BASE		
	Frame Depth	Part Number
19”	18 1/2”	04-1918- __
	22”	04-1922- __
	25 1/2”	04-1925- __
	30 3/4”	04-1930- __
	36”	04-1936- __
24”	18 1/2”	04-2418- __
	22”	04-2422- __
	25 1/2”	04-2425- __
	30 3/4”	04-2430- __
	36”	04-2436- __

Leveling	Anti-Tip Legs
81-0505-03	81-0706-02**

* 4 Per base required
** Sold in pairs w/ 1 leveler per leg

**Add this style number to the partial part number of base selected in chart above.*
11—Plain
13—With provisions for levelers
14—With provision for Duplex Outlet
15—With provisions for Duplex Outlet and levelers
16—With provisions for anti-tip legs
17—With provisions for anti-tip legs and levelers
18—With provisions for anti-tip legs and Duplex Outlet
19—With provisions for anti-tip legs, levelers and Duplex Outlet



Flush Frame Base

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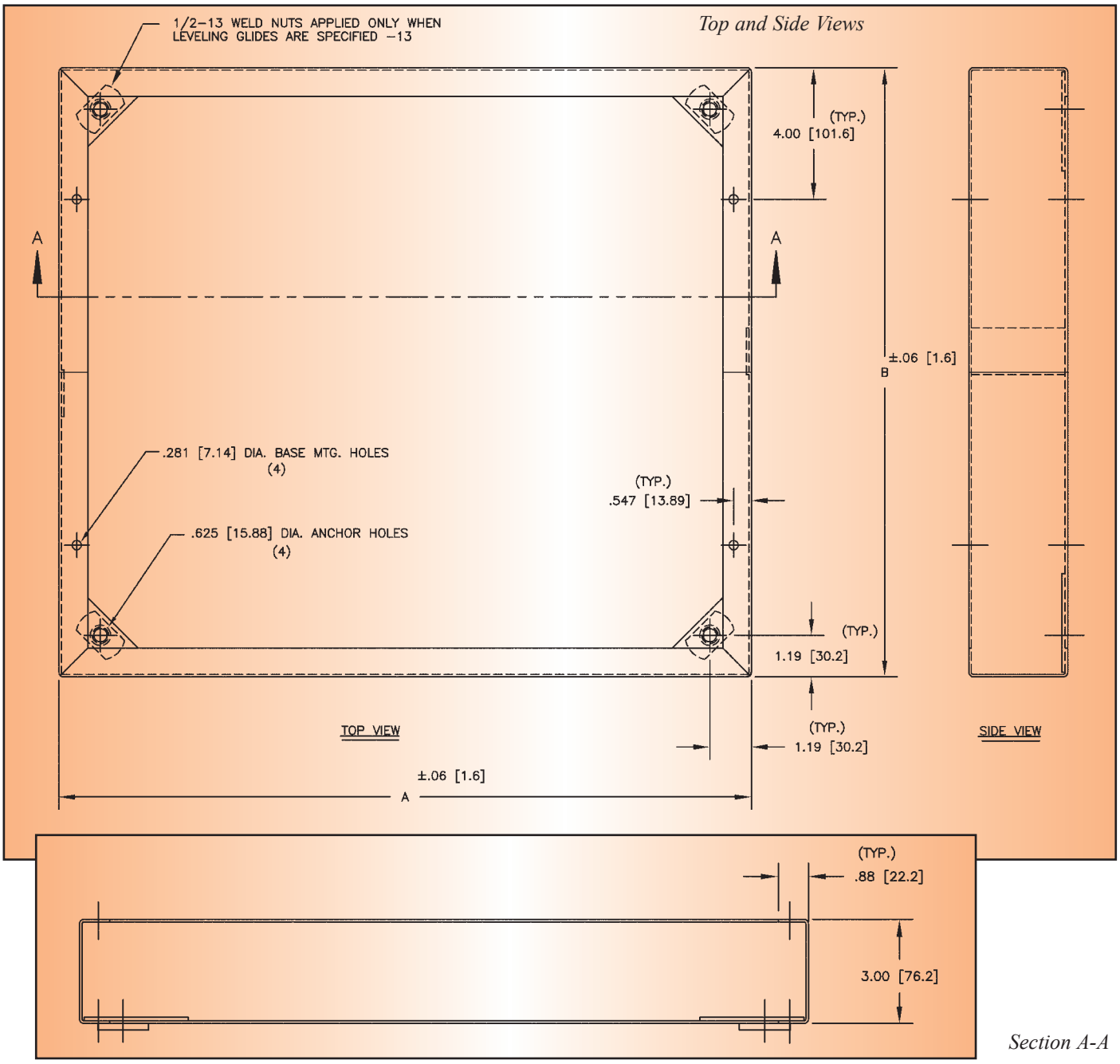
Flush Frame Bases



Section A-A

	Base Assembly Part No.	A	B
19” (482.6)	04-1918-11	21.03 (534.2)	18.50 (469.9)
	04-1922-11	21.03 (534.2)	22.00 (558.8)
	04-1925-11	21.03 (534.2)	25.50 (647.7)
	04-1930-11	21.03 (534.2)	30.75 (781.1)
	04-1936-11	21.03 (534.2)	36.00 (914.4)
24” (609.6)	04-2418-11	26.03 (661.2)	18.50 (469.9)
	04-2422-11	26.03 (661.2)	22.00 (558.8)
	04-2425-11	26.03 (661.2)	25.50 (647.7)
	04-2430-11	26.03 (661.2)	30.75 (781.1)
	04-2436-11	26.03 (661.2)	36.00 (914.4)

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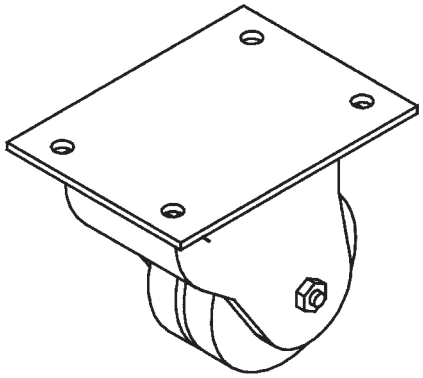
Dual Wheel Casters and Caster Mounting Brackets

Dual Wheel Swivel Casters



Because of their low overall height and wide floor contact, the Dual Wheel Casters are ideally suited for moving heavy electronic equipment. Since their main function is to keep the equipment load distributed evenly, the casters are spaced as widely apart as possible to take full advantage of the wheelbase available, which assures ease of mobility. Dual Wheel Swivel Casters are used with flush frame bases and caster mounting brackets. When converting a standard flush base to a base with casters, two caster mounting brackets are required along with four 2" casters. They have a rated weight carrying capacity of 200 or 400 pounds per caster.

Caster Mounting Brackets
(2 per frame required)

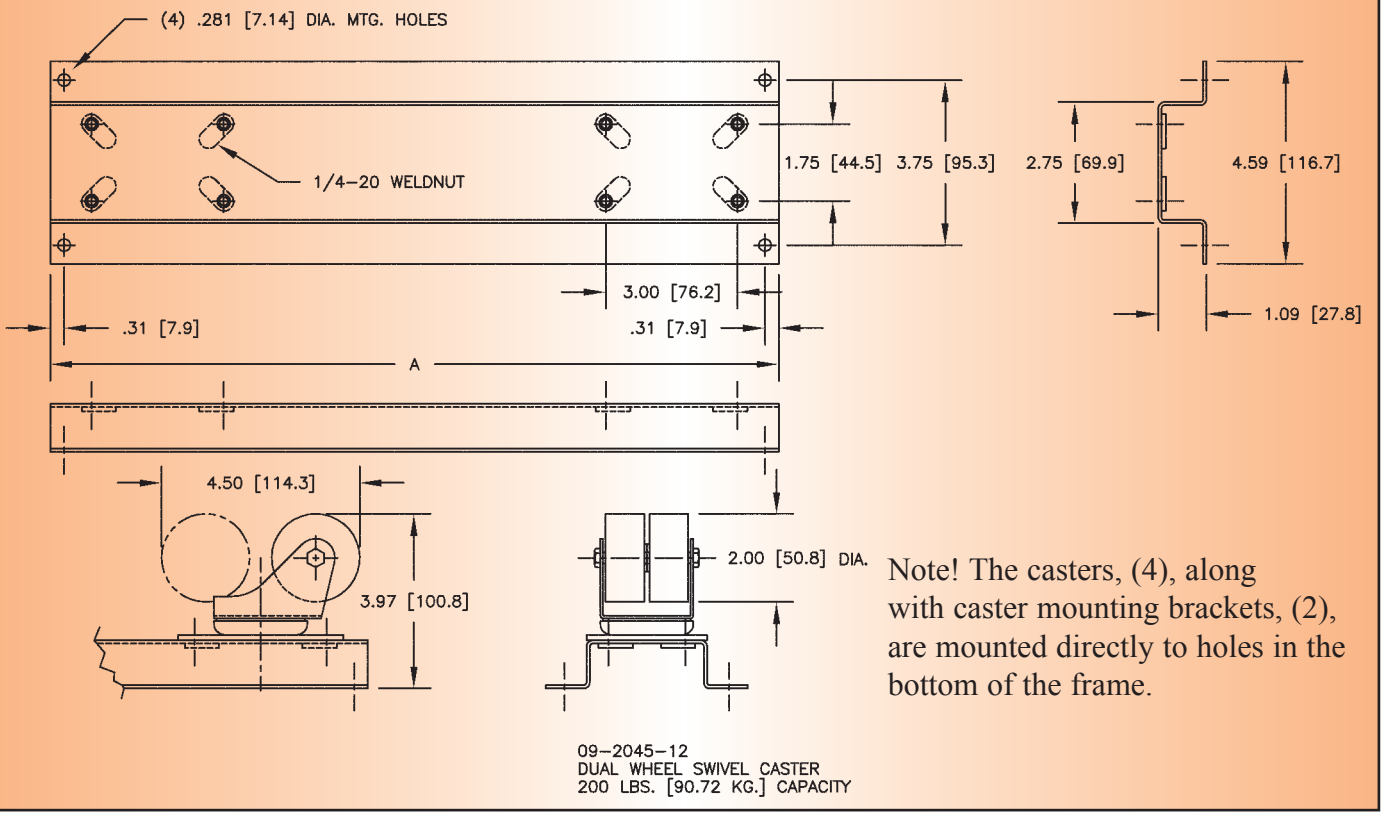
Cabinet Depth	Part Number	A
18.50 (469.9)	04-1000-00	16.56 (420.7)
22.00 (558.8)	04-2000-00	20.06 (509.6)
25.50 (647.7)	04-3000-00	23.56 (598.5)
30.75 (781.1)	04-4000-00	28.81 (731.8)
36.00 (914.4)	04-5000-00	34.06 (865.1)

Casters* For Caster Mtg Brackets	
Weight ratin per caster	Part Number
2" Diameter Swivel Type	
200 lbs.	09-2045-12
400 lbs.	051-020-104

Note: 200 lb. Caster raises overall height of cabinet by 1". 400 lb. Caster raises overall height of cabinet by 1 3/8".

**Four per base required*

Dual Wheel Swivel Caster



Note! The casters, (4), along with caster mounting brackets, (2), are mounted directly to holes in the bottom of the frame.

For use with Flush Frame Bases only

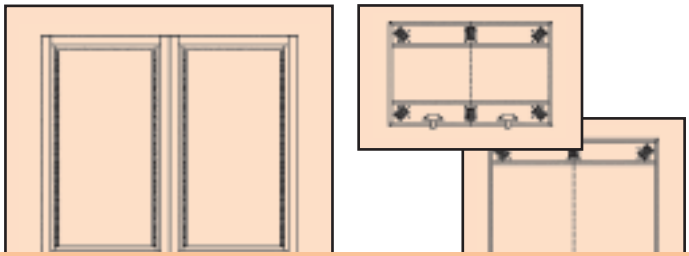
Flush Trucks

Flush Trucks are designed to allow cabinets to be easily moved where unusual conditions such as uneven floors or rough surfaces are present. All of the basic frames in the Challenger Enclosure System can be equipped with Flush Trucks in single, double, or triple-width cabinet assemblies. Because of their channel design, it is possible to use one piece trucks for double and triple-bay cabinet assemblies assuring high load carrying capacities. For stability and ease of mobility, they use 4" diameter casters.

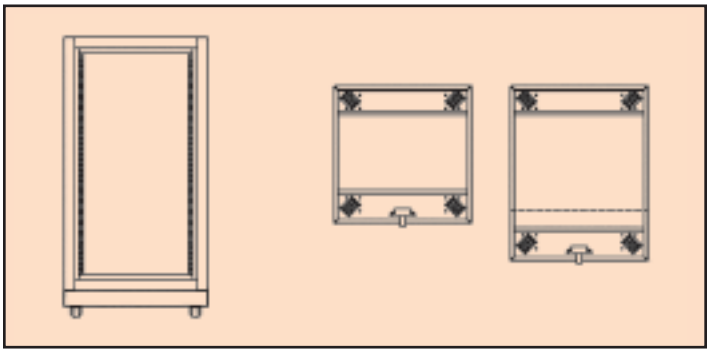
Floor Locks are used to lock Trucks in a stationary position. All Trucks are painted to match the cabinet frame to which it is attached. Single width units are shipped installed on the cabinet frame, while double and triple-width trucks are shipped separately with all the necessary hardware included. Casters for Trucks are shipped separately to minimize shipping costs.

Product Features

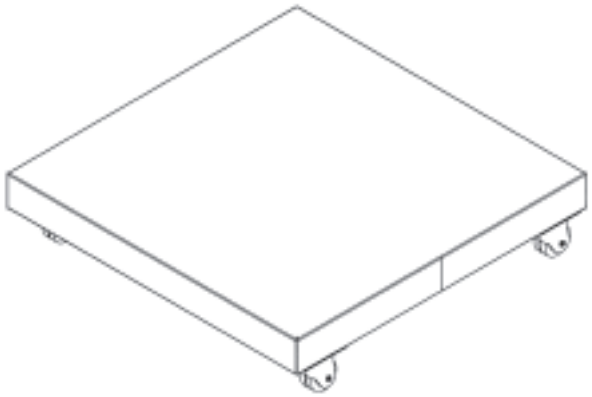
- 12-gauge steel all-welded construction
- 4" diameter casters, swivel or rigid (300 or 550 lbs. per caster capacity)
- Floor locks



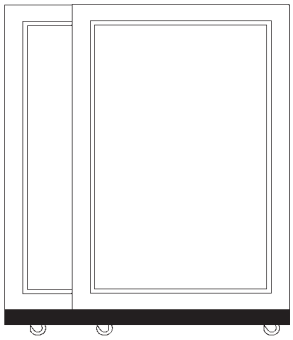
diameter casters provide a load capacity of 1800 lbs.



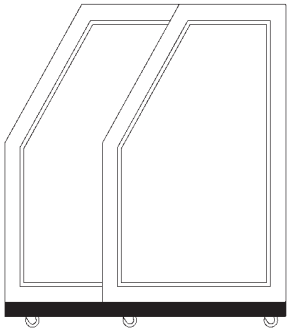
Single-width Flush and Extended Truck equipped with four 4" diameter casters provide a load capacity of 1200lbs.



12-gauge cold rolled steel platform



Vertical Rack Cabinets



15° Sloped Front Consoles

FLUSH TRUCKS
For Vertical Rack and Sloped Front Cabinets

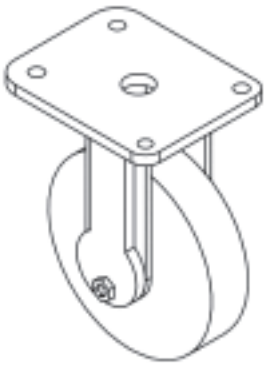
Frame	A Single Frame Only	Two Frames Joined Side-By-Side	Three Frames Joined Side-By-Side
	Part Number	Part Number	Part Number
For cabinet frames with a 19" wide panel space			
18 1/2"	05-1918-11	05-1918-21	05-1918-31
22"	05-1922-11	05-1922-21	05-1922-31
25 1/2"	05-1925-11	05-1925-21	05-1925-31
30 3/4"	05-1930-11	05-1930-21	05-1930-31
36"	05-1936-11	05-1936-21	05-1936-31
For cabinet frames with a 24" wide panel space			
18 1/2"	05-2418-11	05-2418-21	05-2418-31
22"	05-2422-11	05-2422-21	05-2422-31
25 1/2"	05-2425-11	05-2425-21	05-2425-31
30 3/4"	05-2430-11	05-2430-21	05-2430-31
36"	05-2436-11	05-2436-21	05-2436-31

Casters and Floor Locks For Trucks

Single Wheel Casters

The 4” diameter single-wheel, 1 1/2” wide, hard rubber casters provide ease of use and smooth operation when moving frame assemblies in a variety of conditions. They are available with self-lubricating or roller bearing nut-and-bolt axles, with or without wheel locks. Where a truck assembly must be moved frequently or ease of mobility under heavy loading is required, it is recommended to use roller bearing wheels. Positive directional mobility can be achieved by using a pair of rigid base casters, in combination with swivel base casters. The swivel base types have two separate large diameter, ball bearing raceways, while the rigid base types have heavy embossed legs welded to a heavy top plate. Casters are not included with a Truck and must be ordered separately. They are also shipped separately.

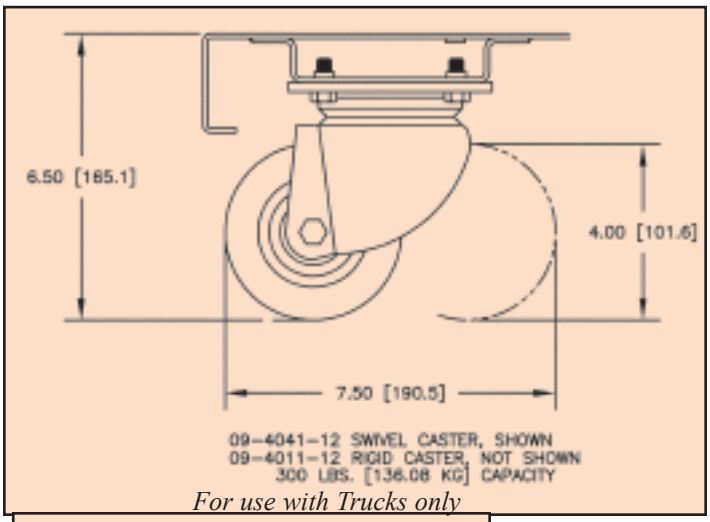
Swivel mounting caster



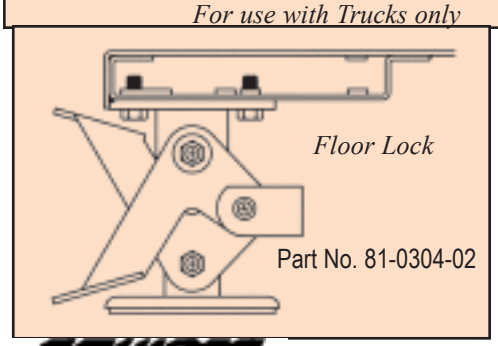
Rigid base caster

Product Features

- Base plate and body constructed of zinc plated, heavy gauge steel
- Wheel locks are supplied separately
- Hard rubber wheels are 4” diameter and 1 1/2” wide
- 300 lb. load capacity per caster for self lubricating
- 550 lb. load capacity per caster for roller bearing



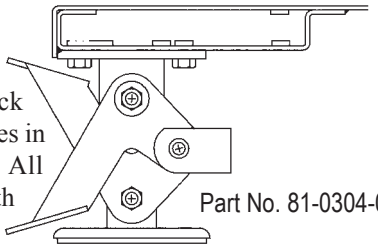
For use with Trucks only



Floor Lock

Part No. 81-0304-02

Floor Locks

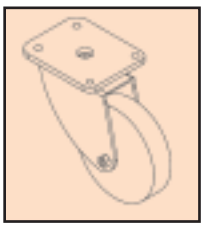


Part No. 81-0304-02

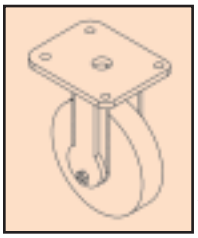
Floor Locks should be specified whenever it is necessary to lock truck mounting cabinet assemblies in a stationary position. All Trucks are equipped with mounting brackets for Floor Locks. The foot operated locking lever is used to place the spring loaded pressure pad on the floor and prevent the cabinet assembly from moving. One floor lock is required for single width trucks, while two locks should be used with double and triple bay units. The Floor Locks are zinc plated and are shipped separately complete with all hardware necessary for installation.

Casters

Casters for trucks must be ordered separately. They are shipped with Trucks but packaged separately to reduce shipping charges. All hardware necessary for attaching Casters to Trucks is included with the casters. They are not supplied with wheel locks. Self lubricating casters are rated at 300 lbs per caster.Roller bearing are rated at 550 lbs per caster.



Swivel Caster



Rigid Caster

CASTERS For Trucks	
Type of Wheel Bearing	Part Number
4” Diameter Wheel-Swivel Type	
Self Lubricating	09-4041-12
Roller Bearing	09-4042-12
4” Diameter Wheel-Rigid Type	
Self Lubricating	09-4011-12
Roller Bearing	09-4012-12

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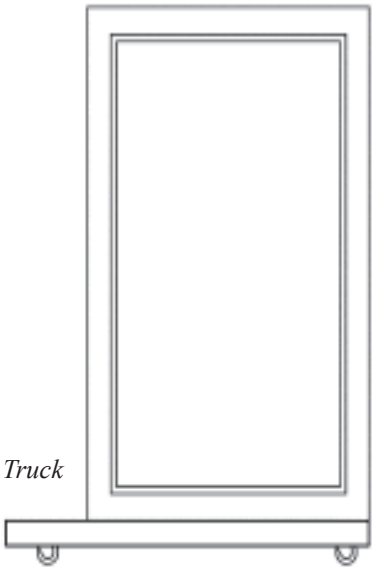
Extended Trucks

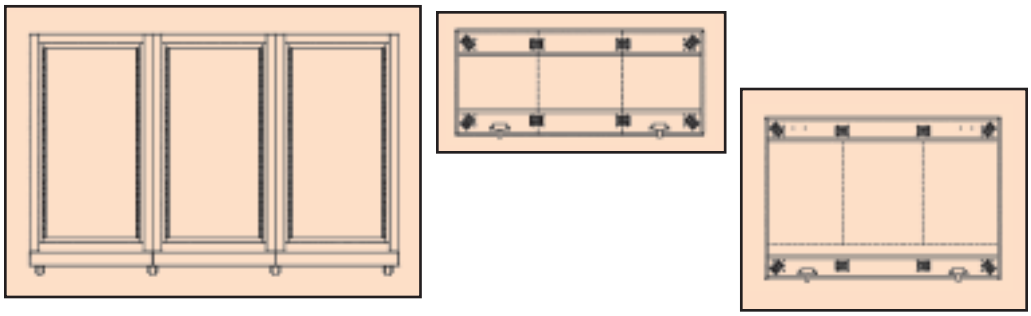
Extended Trucks are recommended for unusual conditions such as uneven floors or top-heavy equipment where mounting could cause an unstable condition. All of the basic frames in the Challenger Enclosure System can be equipped with Extended Trucks in single, double, or triple-width cabinet assemblies. Extended Trucks are designed to be used where conditions are severe. They are available in two widths and five depths. Single width units are shipped installed on the cabinet frame, while multiple-width trucks are shipped separately with all the necessary hardware included. Casters for Trucks are shipped separately to minimize shipping costs.

Product Features

- 12-gauge steel all-welded construction
- 4" diameter casters, swivel or rigid (300 or 550 lbs. per caster capacity)
- Floor locks



Extended Truck



Triple-width Flush or Extended Truck equipped with eight 4" diameter casters transport a load capacity of 2400 lbs.

EXTENDED TRUCKS For Vertical Rack and Sloped Front Cabinets			
	A Single Frame Only	Two Frames Joined Side-By-Side	Three Frames Joined Side-By-Side
	Part Number	Part Number	Part Number
For cabinet frames with a 19" wide panel space			
18 1/2"	06-1918-11	06-1918-21	06-1918-31
22"	06-1922-11	06-1922-21	06-1922-31
25 1/2"	06-1925-11	06-1925-21	06-1925-31
30 3/4"	06-1930-11	06-1930-21	06-1930-31
36"	06-1936-11	06-1936-21	06-1936-31
For cabinet frames with a 24" wide panel space			
18 1/2"	06-2418-11	06-2418-21	06-2418-31
22"	06-2422-11	06-2422-21	06-2422-31
25 1/2"	06-2425-11	06-2425-21	06-2425-31
30 3/4"	06-2430-11	06-2430-21	06-2430-31
36"	06-2436-11	06-2436-21	06-2436-31

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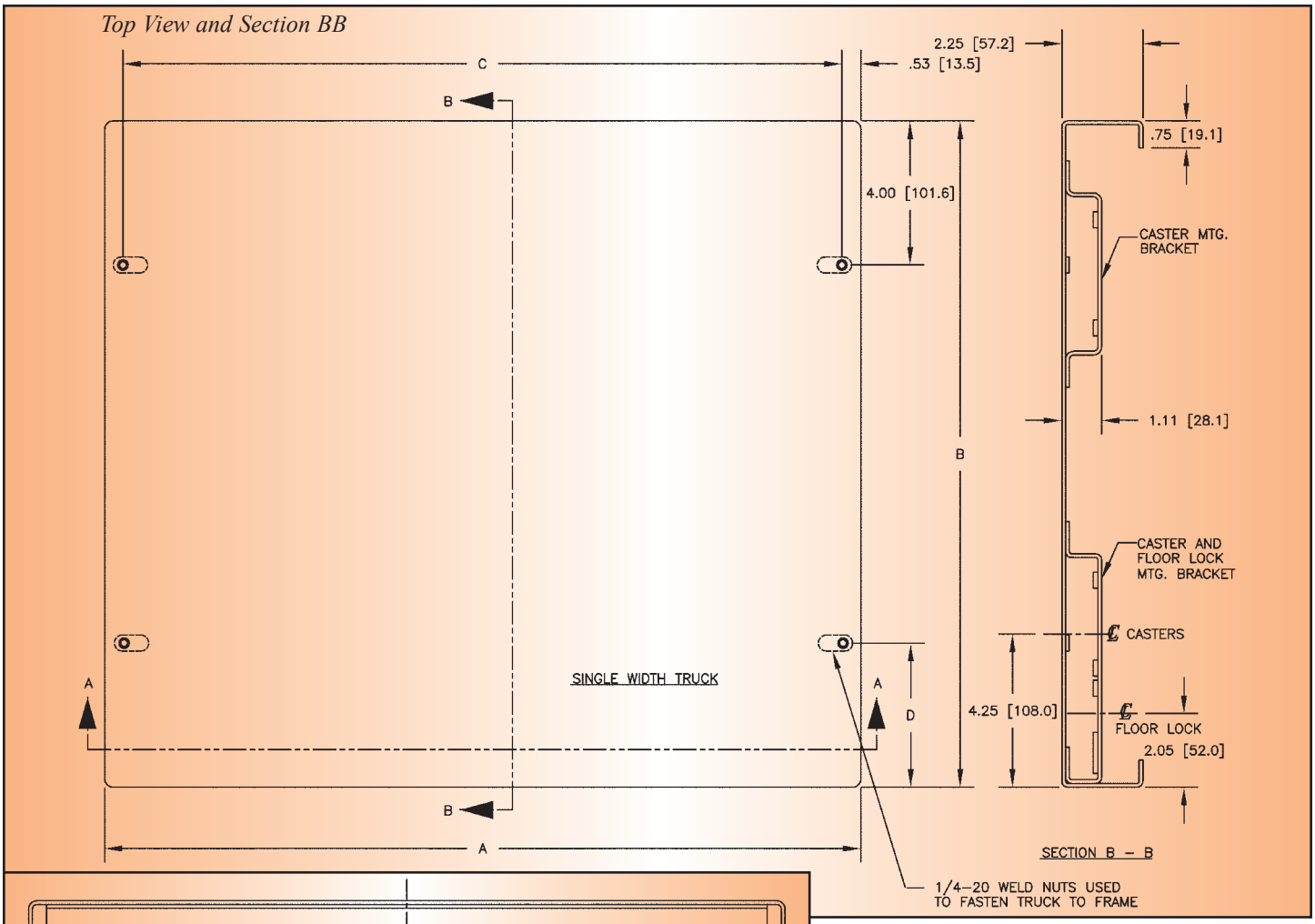
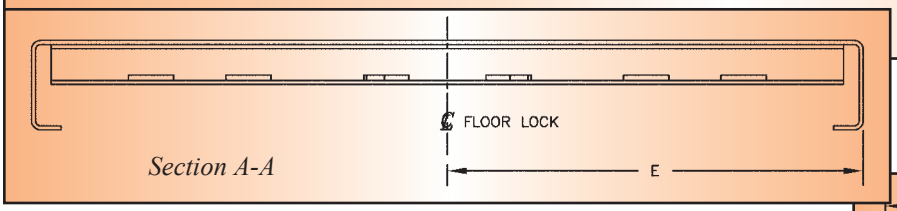
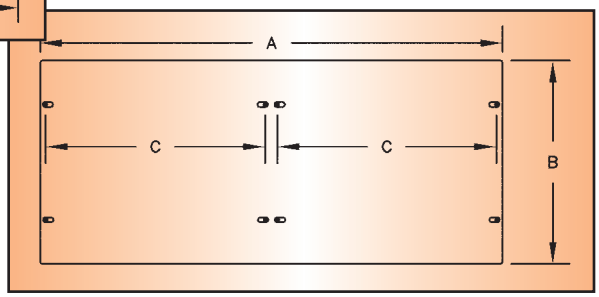
Flush and Extended Cabinet Trucks

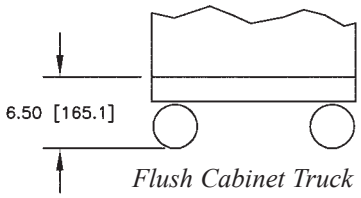




Section A-A

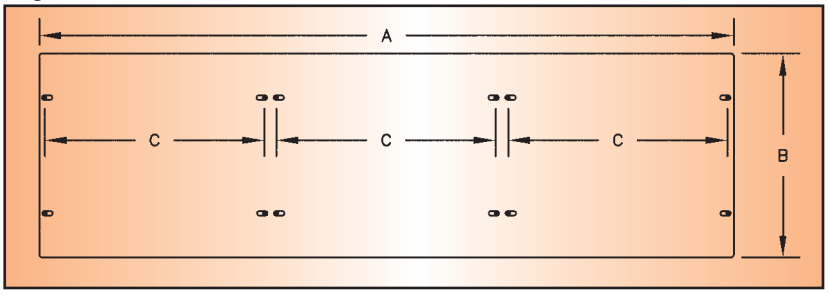
Double-width Truck

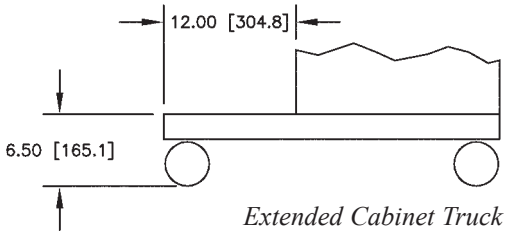




Flush Cabinet Truck

Triple-width Truck





Extended Cabinet Truck

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Flush and Extended Trucks

Flush Truck Single Width					
Part No.	A	B	C	D	E
05-1918-11	21.0 (533.4)	18.5 (469.9)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2418-11	26.0 (660.4)	18.5 (469.9)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)
05-1922-11	21.0 (533.4)	22.0 (558.8)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2422-11	26.0 (660.4)	22.0 (558.8)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)
05-1925-11	21.0 (533.4)	25.5 (647.7)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2425-11	26.0 (660.4)	25.5 (647.7)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)
05-1930-11	21.0 (533.4)	30.75 (781.1)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2430-11	26.0 (660.4)	30.75 (781.1)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)

Flush Truck Double Width					
Part No.	A	B	C	D	E
05-1918-21	42.06 (1068.4)	18.5 (469.9)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2418-21	52.06 (1322.4)	18.5 (469.9)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)
05-1922-21	42.06 (1068.4)	22.0 (558.8)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2422-21	52.06 (1322.4)	22.0 (558.8)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)
05-1925-21	42.06 (1068.4)	25.5 (647.7)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2425-21	52.06 (1322.4)	25.5 (647.7)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)
05-1930-21	42.06 (1068.4)	30.75 (781.1)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2430-21	52.06 (1322.4)	30.75 (781.1)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)

Flush Truck Triple Width					
Part No.	A	B	C	D	E
05-1918-31	63.12 (1603.4)	18.5 (469.9)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2418-31	78.12 (1984.4)	18.5 (469.9)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)
05-1922-31	63.12 (1603.4)	22.0 (558.8)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2422-31	78.12 (1984.4)	22.0 (558.8)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)
05-1925-31	63.12 (1603.4)	25.5 (647.7)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2425-31	78.12 (1984.4)	25.5 (647.7)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)
05-1930-31	63.12 (1603.4)	30.75 (781.1)	19.94 (506.4)	4.00 (101.6)	10.5 (266.7)
05-2430-31	78.12 (1984.4)	30.75 (781.1)	24.94 (633.4)	4.00 (101.6)	13.0 (330.2)

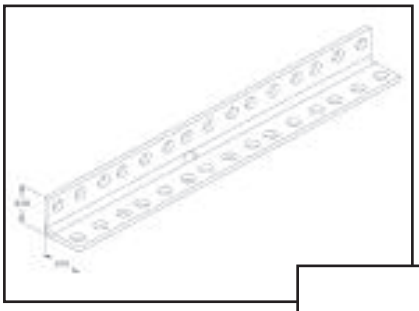
Extended Truck Single Width					
Part No.	A	B	C	D	E
06-1918-11	21.0 (533.4)	30.5 (774.7)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2418-11	26.0 (660.4)	30.5 (774.7)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)
06-1922-11	21.0 (533.4)	34.0 (863.6)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2422-11	26.0 (660.4)	34.0 (863.6)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)
06-1925-11	21.0 (533.4)	37.5 (952.5)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2425-11	26.0 (660.4)	37.5 (952.5)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)
06-1930-11	21.0 (533.4)	42.75 (1085.9)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2430-11	26.0 (660.4)	42.75 (1085.9)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)

Extended Truck Double Width					
Part No.	A	B	C	D	E
06-1918-21	42.06 (1068.4)	30.5 (774.7)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2418-21	52.06 (1322.4)	30.5 (774.7)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)
06-1922-21	42.06 (1068.4)	34.0 (863.6)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2422-21	52.06 (1322.4)	34.0 (863.6)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)
06-1925-21	42.06 (1068.4)	37.5 (952.5)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2425-21	52.06 (1322.4)	37.5 (952.5)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)
06-1930-21	42.06 (1068.4)	42.75 (1085.9)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2430-21	52.06 (1322.4)	42.75 (1085.9)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)

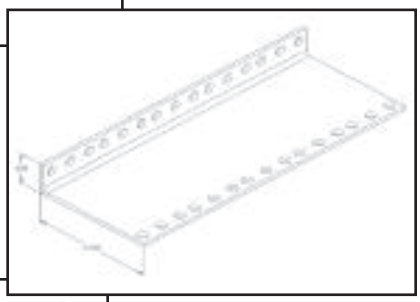
Extended Truck Triple Width					
Part No.	A	B	C	D	E
06-1918-31	63.12 (1603.4)	30.5 (774.7)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2418-31	78.12 (1984.4)	30.5 (774.7)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)
06-1922-31	63.12 (1603.4)	34.0 (863.6)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2422-31	78.12 (1984.4)	34.0 (863.6)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)
06-1925-31	63.12 (1603.4)	37.5 (952.5)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2425-31	78.12 (1984.4)	37.5 (952.5)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)
06-1930-31	63.12 (1603.4)	42.75 (1085.9)	19.94 (506.4)	16.00 (406.4)	10.5 (266.7)
06-2430-31	78.12 (1984.4)	42.75 (1085.9)	24.94 (633.4)	16.00 (406.4)	13.0 (330.2)

Vertical Mounting Rails

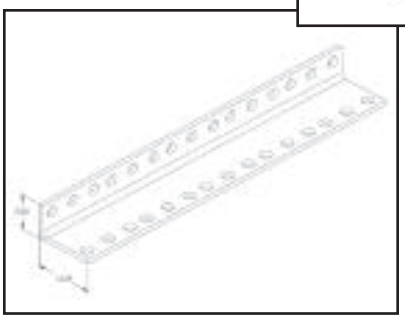
Vertical Mounting Rails are used to mount equipment within the cabinet. They are made of 11-gauge hot rolled steel, formed into a rugged angle shape with rolled edges to eliminate sharp corners. They are available either punched for Speed Nuts® and 10B sheet metal screws or tapped 10-32 for machine screws. Vertical Rack Cabinets are supplied with four Punched Vertical Mounting Rails, two at the front and two at the rear of the cabinet frame. Six Vertical Mounting Rails are supplied with all Sloped Front Cabinets, including two in the rear and four in the front of the frame. If you would like tapped angles, in place of the punched angles normally supplied please refer to the *Frame Options* shown on the Vertical Rack Frame pages or Slope Front Frame pages. Rails are shipped installed in the cabinet frame unless extra Rails are ordered separately.



Standard Rails normally furnished with Standard Racks



Rails for mounting 19" Panels in 24" Wide Openings



Rails for mounting 23" wide telephone equipment in 24" Wide Panel Openings

Product Features

- Formed of 11-gauge steel
- 9/32" diameter holes spaced to comply with Universal EIA Standard RS-310
- Zinc Plating with Trivalent Chromium Passivation
- Available punched or tapped 10-32

VERTICAL MOUNTING RAILS
For Vertical Rack Frames

Height of Panel Opening	Standard Rails		24" to 19" Adapter Rails		24" to 23" Adapter Rails	
	Punched	**Tapped**	**Punched**	**Tapped**	**Punched**	**Tapped**
8 3/4"	01-0801-02	01-0802-02	02-0801-02	02-0802-02	02-0801-23	02-0802-23
10 1/2"	01-1001-02	01-1002-02	02-1001-02	02-1002-02	02-1001-23	02-1002-23
12 1/4"	01-1201-02	01-1202-02	02-1201-02	02-1202-02	02-1201-23	02-1202-23
14"	01-1401-02	01-1402-02	02-1401-02	02-1402-02	02-1401-23	02-1402-23
15 3/4"	01-1501-02	01-1502-02	02-1501-02	02-1502-02	02-1501-23	02-1502-23
17 1/2"	01-1701-02	01-1702-02	02-1701-02	02-1702-02	02-1701-23	02-1702-23
19 1/4"	01-1901-02	01-1902-02	02-1901-02	02-1902-02	02-1901-23	02-1902-23
21"	01-2101-02	01-2102-02	02-2101-02	02-2102-02	02-2101-23	02-2102-23
22 3/4"	01-2201-02	01-2202-02	02-2201-02	02-2202-02	02-2201-23	02-2202-23
29 3/4"	01-2901-02	01-2902-02	02-2901-02	02-2902-02	02-2901-23	02-2902-23
35"	01-3501-02	01-3502-02	02-3501-02	02-3502-02	02-3501-23	02-3502-23
36 3/4"	01-3601-02	01-3602-02	02-3601-02	02-3602-02	02-3601-23	02-3602-23
40 1/4"	01-4001-02	01-4002-02	02-4001-02	02-4002-02	02-4001-23	02-4002-23
43 3/4"	01-4301-02	01-4302-02	02-4301-02	02-4302-02	02-4301-23	02-4302-23
47 1/4"	01-4701-02	01-4702-02	02-4701-02	02-4702-02	02-4701-23	02-4702-23
52 1/2"	01-5201-02	01-5202-02	02-5201-02	02-5202-02	02-5201-23	02-5202-23
61 1/4"	01-6101-02	01-6102-02	02-6101-02	02-6102-02	02-6101-23	02-6102-23
70"	01-7001-02	01-7002-02	02-7001-02	02-7002-02	02-7001-23	02-7002-23
78 3/4"	01-7801-12	01-7802-02	02-7801-02	02-7802-02	02-7801-23	02-7802-23

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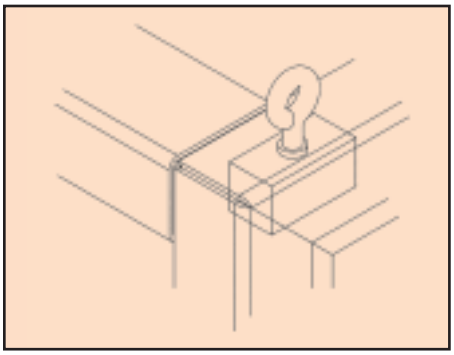
Lift Bolts

Lift Bolts are ruggedly designed for the safe overhead lifting of heavily loaded assemblies. Lift Bolts when combined with Lift Blocks (a Frame Option) assure maximum transportable loading. Lift Bolt assemblies for the Challenger Cabinet Frames are installed at the factory. The steel eye bolts are shipped loose, but shipped with the frame. They can be easily reinstalled by simply screwing them into place. Four Lift Bolts are required for Vertical Rack Cabinets and Two Lift Bolts are required for Single Slope Consoles.



Lift Bolt installed in a Lift Block that has been welded into a frame

Product Features

- Rugged construction assures maximum transportable loading
- Eye bolts are zinc-plated

Lift Bolts - Standard Quantities Required

- Vertical Racks - typically 4 lift bolts per rack are required
- Slope Front Racks - typically 2 lift bolts per rack are required

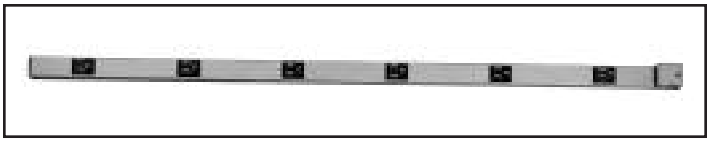
LIFT BOLTS For Vertical Rack and Sloped Front Contols	
Description	**Part Number**
Lift Eye Bolt	601-00-02-0000

Power Strips

Power Strips are available in five lengths and are finished in the standard tan baked enamel. The Power Strip is shipped installed in the cabinet frame, usually at the rear of the cabinet on the right side attached to the frame struts.

Product Features

- 3-wire, single circuit, 15 amp, 125 volt grounding
- Available in five lengths; 18”-72”
- Finished in standard tan baked enamel



3 wire, single circuit, 15 amp., 125 volt, grounding, ASA standard, wired with No. 12 Type TW Conductors

POWER STRIP			
Vertical Panel Space	Length	Number of Outlets	Part Number
21” to 28”	18”	3	03-0306-32
29 3/4” to 35”	30”	5	03-0506-32
36” 3/4” to 52 1/2”	36”	6	03-0606-32
61 1/4” to 70”	60”	10	03-1006-32
78 3/4”	72”	12	03-1206-32

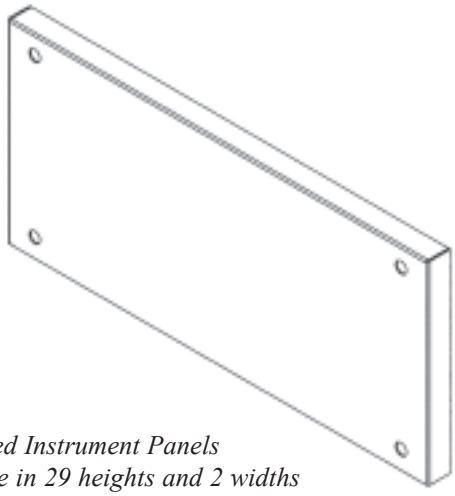
* To order with a cord with a 3-prong plug, add suffix:
-6P for 6’ long cord
-10P for 10’ long cord
-15P for 15’ long cord

Formed (5/8” thick) Instrument Panels

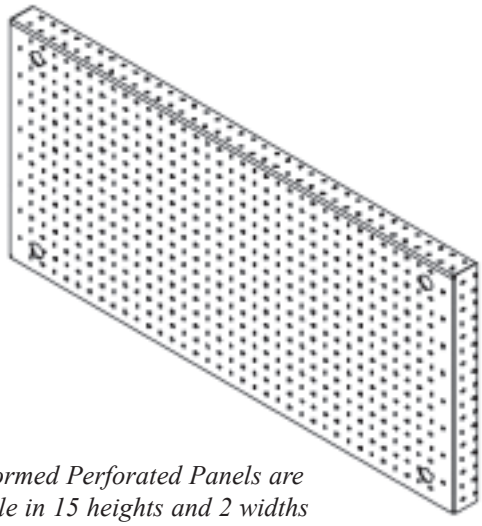
Challenger System 5/8” Formed Instrument Panels are available plain, louvered or perforated and are designed to be used in all panel openings of the Cabinet Frames and Turrets. They may be used as Instrument Panels, Front Panels, Top Panels, Rear Panels, or Filler Panels. Plain Formed Instrument Panels are available in 29 heights; louvered panels have two rows of louvers full height and are not available in heights less than 7”. Perforated panels are available in 15 heights and are ideal for releasing heat and complying with codes restricting size of openings. All Formed Instrument Panels are available in 19” and 24” panel widths. They are normally shipped attached to the cabinet frame in the position specified.

Product Features

- 16-gauge cold rolled steel construction with formed 5/8” thick with a single flange
- Perforated panels made of 18-gauge cold rolled steel, formed 5/8” thick with a single flange
- Perforated have 1/16” diameter holes on staggered 7/64” centers with total open area of 30%
- Available plain, louvered, or perforated for flexibility in using in all panel openings



Plain Formed Instrument Panels are available in 29 heights and 2 widths



5/8” Formed Perforated Panels are available in 15 heights and 2 widths

Part No.** B=19.00 (482.6)	Part No.** B=24.00 (609.6)	A	C	D1	D2
20-0112-46	20-0122-46	1.72 (43.7)	N/A	N/A	N/A
20-0312-46	20-0322-46	3.47 (88.1)	N/A	N/A	N/A
20-0512-46	20-0522-46	5.22 (132.6)	N/A	N/A	N/A
20-0712-46	20-0722-46	6.97 (177.0)	N/A	N/A	3
20-0812-46	20-0822-46	8.72 (221.5)	N/A	N/A	4
20-1012-46	20-1022-46	10.47 (265.9)	N/A	N/A	6
20-1212-46	20-1222-46	12.22 (310.4)	N/A	N/A	7
20-1412-46	20-1422-46	13.97 (354.8)	N/A	2	9
20-1512-46	20-1522-46	15.72 (399.3)	N/A	2	10
20-1712-46	20-1722-46	17.47 (443.7)	N/A	3	12
20-1912-46	20-1922-46	19.22 (488.2)	N/A	3	13
20-2112-46	20-2122-46	20.97 (532.6)	N/A	4	15
20-2212-46	20-2222-46	22.72 (577.1)	7.00 (177.8)	4	17
20-2912-46	20-2922-46	29.72 (754.9)	8.75 (222.3)	4	23
20-351246	20-352246	34.97 (888.2)	10.50 (266.7)	4	27
20-3612-46	20-3622-46	36.72 (932.7)	10.50 (266.7)	4	29
20-4012-46	20-4022-46	40.22 (1021.6)	12.25 (311.2)	8	32
20-4312-46	20-4322-46	43.72 (1110.5)	12.25 (311.2)	8	35
20-4712-46	20-4722-46	47.22 (1199.4)	14.00 (355.6)	8	38
20-5212-46	20-5222-46	52.47 (1332.7)	15.75 (400.1)	8	43
20-6112-46	20-6122-46	61.22 (1555.0)	19.25 (489.0)	10	51
20-7012-46	20-7022-46	69.97 (1777.2)	22.75 (577.9)	12	59
20-7812-46	20-7822-46	87.72 (1999.5)	24.50 (622.3)	12	66

**** Please see the Mounting Hardware Choices for panel part number prefixes shown on page C47 when choosing a panel part number.**

D1= No. Of Louvers Provided At Top & Bottom.
D2= No. Of Louvers If Fully Louvered.
N/A= Not Available`

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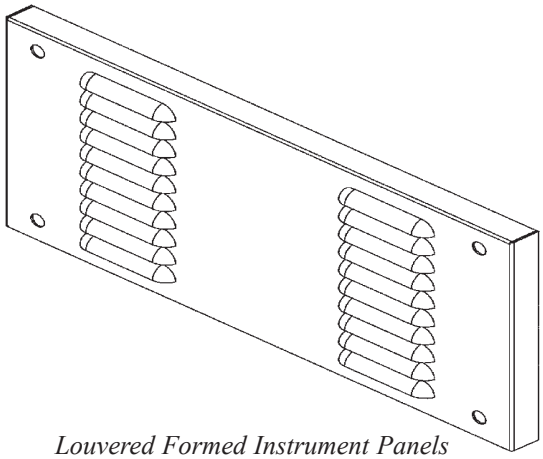
Formed (5/8” thick) Instrument Panels



Louvered Formed Instrument Panels have two rows of louvers full height

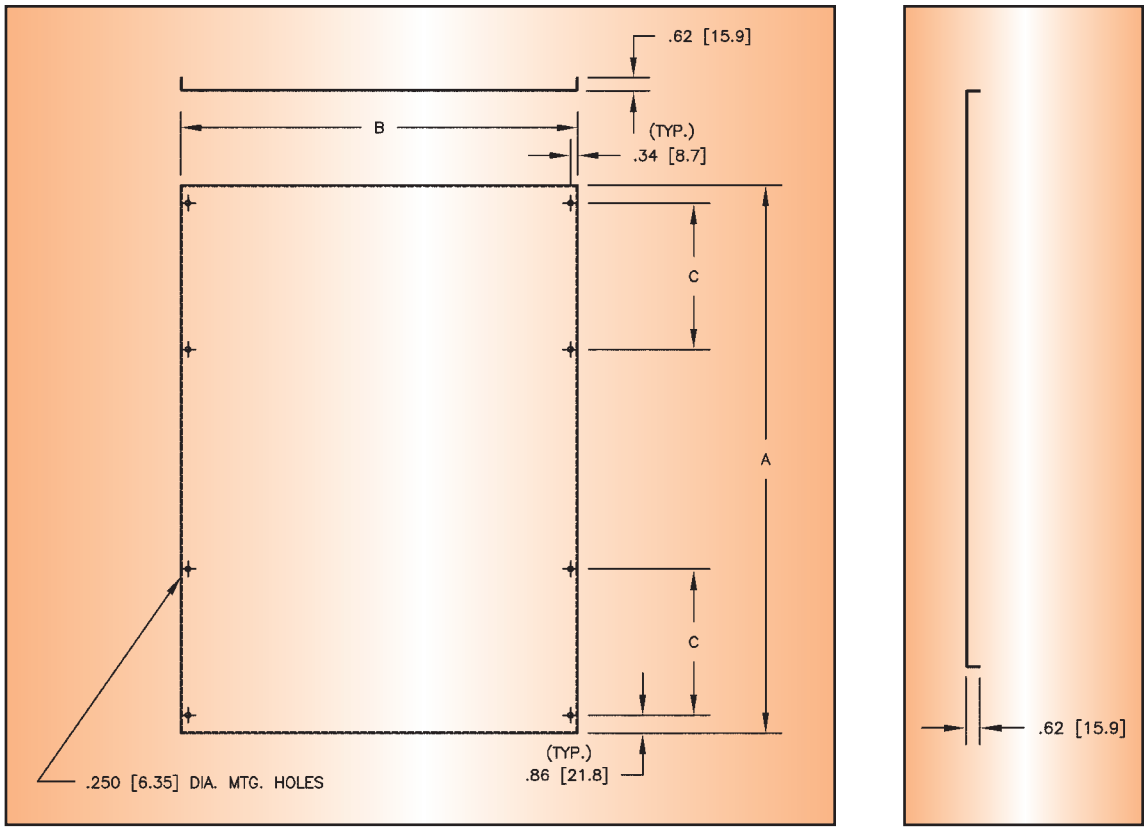
** Mounting Hardware Choices	
Add a ‘prefix’ letter below to the front of your panel part number based on the type of rail you will be mounting your panel to.	
H	Hardware for Heavy Duty *punched* vertical mounting rails
C	Hardware for Challenger *punched* vertical mounting rails
T	Hardware for *tapped* vertical mounting rails
N	Hardware for mounting in an Instrument Cabinet
Example: T20-2112-46	

5/8” FORMED INSTRUMENT PANELS
For Front, Rear, Filler, Instrument, or Top Panels

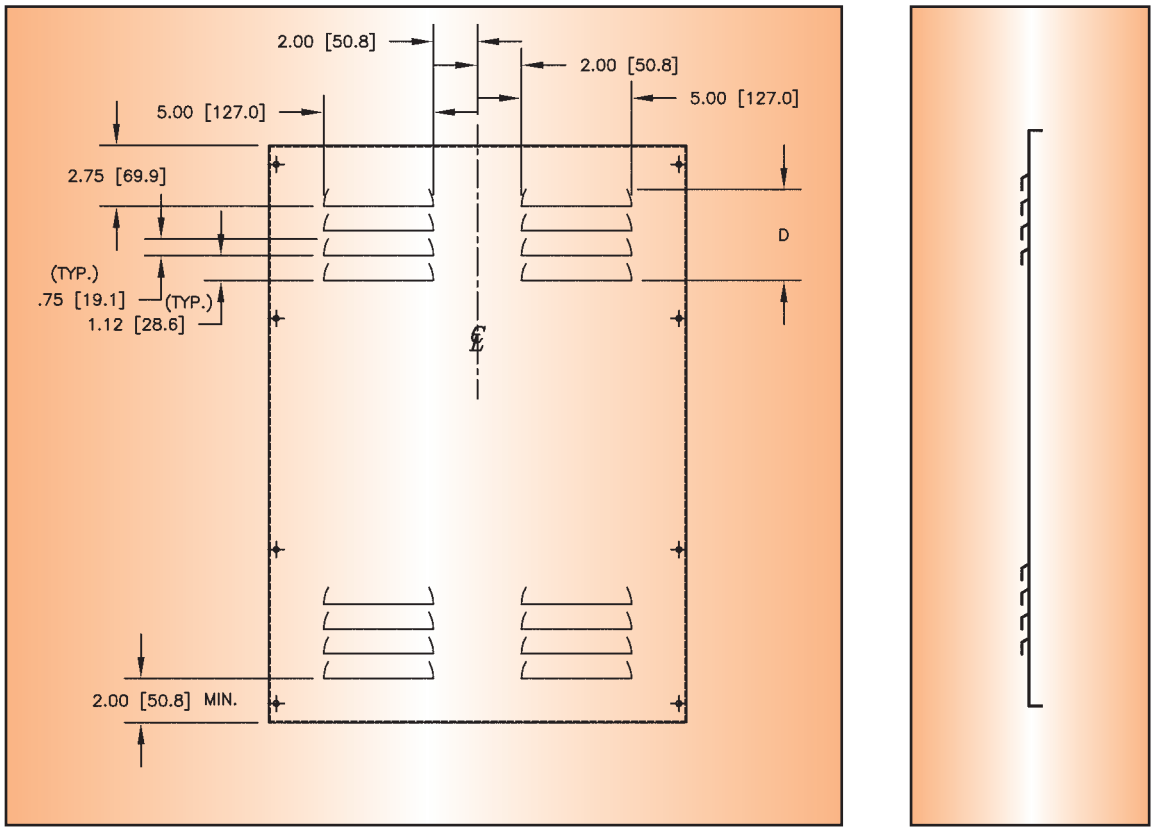
Height of Panel	Plain		Perforated		Louvered Fully		Louvered Top Only		Louvered Bottom Only		Louvered Top & Bottom	
	19” Width	24” Width	19” Width	24” Width	19” Width	24” Width	19” Width	24” Width	19” Width	24” Width	19” Width	24” Width
1 3/4”	20-0112-46	20-0122-46										
3 1/2”	20-0312-46	20-0322-46	20-0312-31	20-0322-31								
5 1/4”	20-0512-46	20-0522-46	20-0512-31	20-0522-31								
7”	20-0712-46	20-0722-46	20-0712-31	20-0722-31	20-0712-11	20-0722-11						
8 3/4”	20-0812-46	20-0822-46	20-0812-31	20-0822-31	20-0812-11	20-0822-11						
10 1/2”	20-1012-46	20-1022-46	20-1012-31	20-1022-31	20-1012-11	20-1022-11						
12 1/4”	20-1212-46	20-1222-46	20-1212-31	20-1222-31	20-1212-11	20-1222-11						
14”	20-1412-46	20-1422-46	20-1412-31	20-1422-31	20-1412-11	20-1422-11	20-1412-12	20-1422-12	20-1412-13	20-1422-13	20-1412-14	20-1422-14
15 3/4”	20-1512-46	20-1522-46	20-1512-31	20-1522-31	20-1512-11	20-1522-11	20-1512-12	20-1522-12	20-1512-13	20-1522-13	20-1512-14	20-1522-14
17 1/2”	20-1712-46	20-1722-46	20-1712-31	20-1722-31	20-1712-11	20-1722-11	20-1712-12	20-1722-12	20-1712-13	20-1722-13	20-1712-14	20-1722-14
19 1/4”	20-1912-46	20-1922-46	20-1912-31	20-1922-31	20-1912-11	20-1922-11	20-1912-12	20-1922-12	20-1912-13	20-1922-13	20-1912-14	20-1922-14
21”	20-2112-46	20-2122-46	20-2112-31	20-2122-31	20-2112-11	20-2122-11	20-2112-12	20-2122-12	20-2112-13	20-2122-13	20-2112-14	20-2122-14
22 3/4”	20-2212-46	20-2222-46	20-2212-31	20-2222-31	20-2212-11	20-2222-11	20-2212-12	20-2222-12	20-2212-13	20-2222-13	20-2212-14	20-2222-14
24 1/2”	20-2412-46	20-2422-46	20-2412-31	20-2422-31	20-2412-11	20-2422-11	20-2412-12	20-2422-12	20-2412-13	20-2422-13	20-2412-14	20-2422-14
26 1/4”	20-2612-46	20-2622-46	20-2612-31	20-2622-31	20-2612-11	20-2622-11	20-2612-12	20-2622-12	20-2612-13	20-2622-13	20-2612-14	20-2622-14
28”	20-2812-46	20-2822-46	20-2812-31	20-2822-31	20-2812-11	20-2822-11	20-2812-12	20-2822-12	20-2812-13	20-2822-13	20-2812-14	20-2822-14
29 3/4”	20-2912-46	20-2922-46			20-2912-11	20-2922-11	20-2912-12	20-2922-12	20-2912-13	20-2922-13	20-2912-14	20-2922-14
35”	20-3512-46	20-3522-46			20-3512-11	20-3522-11	20-3512-12	20-3522-12	20-3512-13	20-3522-13	20-3512-14	20-3522-14
36 3/4”	20-3612-46	20-3622-46			20-3612-11	20-3622-11	20-3612-12	20-3622-12	20-3612-13	20-3622-13	20-3612-14	20-3622-14
40 1/4”	20-4012-46	20-4022-46			20-4012-11	20-4022-11	20-4012-12	20-4022-12	20-4012-13	20-4022-13	20-4012-14	20-4022-14
42”	20-4212-46	20-4222-46			20-4212-11	20-4222-11	20-4212-12	20-4222-12	20-4212-13	20-4222-13	20-4212-14	20-4222-14
43 3/4”	20-4312-46	20-4322-46			20-4312-11	20-4322-11	20-4312-12	20-4322-12	20-4312-13	20-4322-13	20-4312-14	20-4322-14
47 1/4”	20-4712-46	20-4722-46			20-4712-11	20-4722-11	20-4712-12	20-4722-12	20-4712-13	20-4722-13	20-4712-14	20-4722-14
49”	20-4912-46	20-4922-46			20-4912-11	20-4922-11	20-4912-12	20-4922-12	20-4912-13	20-4922-13	20-4912-14	20-4922-14
52 1/2”	20-5212-46	20-5222-46			20-5212-11	20-5222-11	20-5212-12	20-5222-12	20-5212-13	20-5222-13	20-5212-14	20-5222-14
56”	20-5612-46	20-5622-46			20-5612-11	20-5622-11	20-5612-12	20-5622-12	20-5612-13	20-5622-13	20-5612-14	20-5622-14
61 1/4”	20-6112-46	20-6122-46			20-6112-11	20-6122-11	20-6112-12	20-6122-12	20-6112-13	20-6122-13	20-6112-14	20-6122-14
70”	20-7012-46	20-7022-46			20-7012-11	20-7022-11	20-7012-12	20-7022-12	20-7012-13	20-7022-13	20-7012-14	20-7022-14
78 3/4”	20-7812-46	20-7822-46			20-7812-11	20-7822-11	20-7812-12	20-7822-12	20-7812-13	20-7822-13	20-7812-14	20-7822-14

Formed (5/8” thick) Instrument Panels

Front and Side View of Plain Panel



Front and Side View of Louvered Panel



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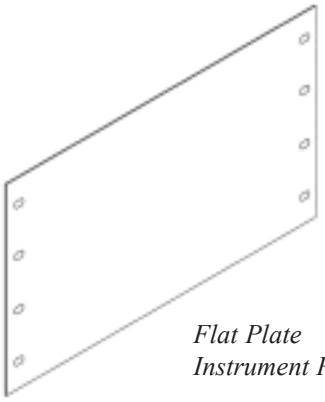
Flat Instrument (1/8” thick) Panels/ Panel Shims

Flat Plate Instrument Panels are available in 1/8” thick cold rolled steel or aluminum in both 19” and 24” panel widths and in sixteen heights. They are punched for E.I.A. Universal Standards RS-310 hole spacing. The panels are shipped attached to the cabinet frame in the locations specified, usually fastened with 10B Phillips Head sheet metal screws, using Mar-Proof recessed black nylon washers and Speed Nuts®.

Product Features

- Constructed of 1/8” thick cold rolled steel or aluminum
- Available in 19” and 24” panel widths and 16 heights



Flat Plate Instrument Panel

**Complete the last digit of the panel P/N with the following choices:	
1	with hardware for Heavy Duty punched vertical rails
2	with hardware for Challenger punched vertical rails
3	with hardware for mounting in an Instrument Cabinet
4	with hardware for Tapped vertical rails
5	with hardware for shims & Heavy Duty punched vert. rails
6	with hardware for shims & Challenger punched vert. rails
7	with hardware for shims & mtg in an Instrument Cabinet
8	with hardware for shims & Tapped vertical rails

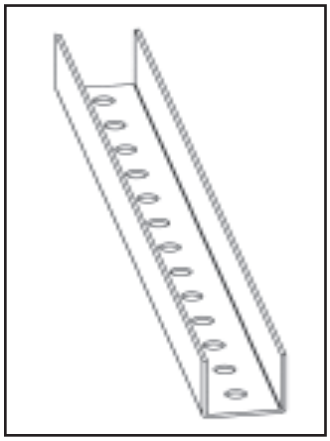
1/8” THICK FLAT PLATE INSTRUMENT PANELS**

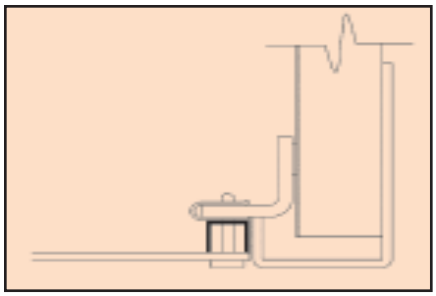
Height of Flat Panel	Steel Panels		Aluminum Panels	
	19” Panel Width	24” Panel Width	19” Panel Width	24” Panel Width
	Part No.	Part No.	Part No.	Part No.
1 3/4”	21-0112-1_	21-0122-1_	21-0112-4_	21-0122-4_
3 1/2”	21-0312-1_	21-0322-1_	21-0312-4_	21-0322-4_
5 1/4”	21-0512-1_	21-0522-1_	21-0512-4_	21-0522-4_
7”	21-0712-1_	21-0722-1_	21-0712-4_	21-0722-4_
8 3/4”	21-0812-1_	21-0822-1_	21-0812-4_	21-0822-4_
10 1/2”	21-1012-1_	21-1022-1_	21-1012-4_	21-1022-4_
12 1/4”	21-1212-1_	21-1222-1_	21-1212-4_	21-1222-4_
14”	21-1412-1_	21-1422-1_	21-1412-4_	21-1422-4_
15 3/4”	21-1512-1_	21-1522-1_	21-1512-4_	21-1522-4_
17 1/2”	21-1712-1_	21-1722-1_	21-1712-4_	21-1722-4_
19 1/4”	21-1912-1_	21-1922-1_	21-1912-4_	21-1922-4_
21”	21-2112-1_	21-2122-1_	21-2112-4_	21-2122-4_
22 3/4”	21-2212-1_	21-2222-1_	21-2212-4_	21-2222-4_
24 1/2”	21-2412-1_	21-2422-1_	21-2412-4_	21-2422-4_
26 1/4”	21-2612-1_	21-2622-1_	21-2612-4_	21-2622-4_
28”	21-2812-1_	21-2822-1_	21-2812-4_	21-2822-4_

Panel Shims

Panel Shims are designed to bring flat panels into alignment with the face of the formed panels. They are usually used when Flat Plate Instrument Panels are used with Formed Instrument Panels in order to maintain a consistent appearance. Panel Shims are constructed of 16-gauge cold rolled steel and are formed into a “U” shaped channel. They are shipped along with the flat panels which are attached to the cabinet frame.

A “U” shaped channel formed of 16-gauge cold rolled steel for aligning flat 1/8” panels with frame face





Illustrates a Panel Shim in place between Flat Plate Panel and Panel Mounting Angle

PANEL SHIMS For use with 1/8” Thick Panels

Height of Flat Panel	Part Number of Shim
1 3/4”	86-0112-02
3 1/2”	86-0312-02
5 1/4”	86-0512-02
7”	86-0712-02
8 3/4”	86-0812-02
10 1/2”	86-1012-02
12 1/4”	86-1212-02
14”	86-1412-02
15 3/4”	86-1512-02
17 1/2”	86-1712-02
19 1/4”	86-1912-02
21”	86-2112-02

Storage Drawers

Storage Drawers are designed to hold small tools, test equipment, patch cords and other similar items which must be kept within easy reach of the equipment assembly. They can be installed in cabinets. They can be used in combination with Formed Instrument Panels in the same panel opening. They are available for 19" and 24" panel width cabinets, either 18 1/2", 22", 25 1/2", 30 3/4" and 36" deep.

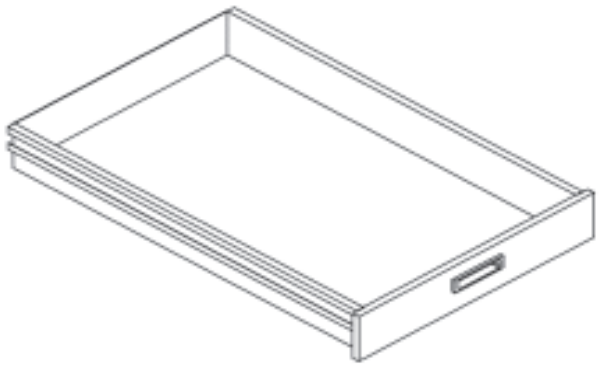
All Storage Drawers are supplied with easy acting ball bearing Extension Slides with a rated capacity of 125 lbs. when fully extended. The Drawer Pulls are of a flush type with a recessed finger grip. They are available with or without a safety latch, which insures positive closure of the drawer and is recommended where vibration is a factor. All Storage Drawers are normally shipped installed in the cabinet in the specified location.

Product Features

- Drawer fronts formed of 16-gauge cold-rolled steel spot welded to 20-gauge cold-rolled steel bodies
- Mounted on zinc-plated Ball Bearing Extension Slides with 125 lb. capacity
- Drawer handles are finished black to match other Equipto Electronic cabinet hardware
- Available with or without safety latch

****If the shelf or ball bearing slides will be mounted in a rack that has *tapped* vertical mounting rails (in lieu of punched rails), then add a 'T' to the part number in order to receive the proper mounting hardware. Example: T14-0713-11**

Storage Drawers



STORAGE DRAWERS**				
Height of	19" Panel Width		24" Panel Width	
	Non-Latch Type	Latch Type	Non-Latch Type	Latch Type
For cabinet frames with an 18 1/2" overall depth				
3 1/2"	14-0311-11	14-0311-31	14-0321-11	14-0321-31
5 1/4"	14-0511-11	14-0511-31	14-0521-11	14-0521-31
7"	14-0711-11	14-0711-31	14-0721-11	14-0721-31
8 3/4"	14-0811-11	14-0811-31	14-0821-11	14-0821-31
10 1/2"	14-1011-11	14-1011-31	14-1021-11	14-1021-31
12 1/4"	14-1211-11	14-1211-31	14-1221-11	14-1221-31
14"	14-1411-11	14-1411-31	14-1421-11	14-1421-31
For cabinet frames with a 22" overall depth				
3 1/2"	14-0312-11	14-0312-31	14-0322-11	14-0322-31
5 1/4"	14-0512-11	14-0512-31	14-0522-11	14-0522-31
7"	14-0712-11	14-0712-31	14-0722-11	14-0722-31
8 3/4"	14-0812-11	14-0812-31	14-0822-11	14-0822-31
10 1/2"	14-1012-11	14-1012-31	14-1022-11	14-1022-31
12 1/4"	14-1212-11	14-1212-31	14-1222-11	14-1222-31
14"	14-1412-11	14-1412-31	14-1422-11	14-1422-31
For cabinet frames with a 25 1/2" overall depth				
3 1/2"	14-0313-11	14-0313-31	14-0323-11	14-0323-31
5 1/4"	14-0513-11	14-0513-31	14-0523-11	14-0523-31
7"	14-0713-11	14-0713-31	14-0723-11	14-0723-31
8 3/4"	14-0813-11	14-0813-31	14-0823-11	14-0823-31
10 1/2"	14-1013-11	14-1013-31	14-1023-11	14-1023-31
12 1/4"	14-1213-11	14-1213-31	14-1223-11	14-1223-31
14"	14-1413-11	14-1413-31	14-1423-11	14-1423-31
For cabinet frames with a 30 3/4" overall depth				
3 1/2"	14-0314-11	14-0314-31	14-0324-11	14-0324-31
5 1/4"	14-0514-11	14-0514-31	14-0524-11	14-0524-31
7"	14-0714-11	14-0714-31	14-0724-11	14-0724-31
8 3/4"	14-0814-11	14-0814-31	14-0824-11	14-0824-31
10 1/2"	14-1014-11	14-1014-31	14-1024-11	14-1024-31
12 1/4"	14-1214-11	14-1214-31	14-1224-11	14-1224-31
14"	14-1414-11	14-1414-31	14-1424-11	14-1424-31
For cabinet frames with a 36" overall depth				
3 1/2"	14-0315-11	14-0315-31	14-0325-11	14-0325-31
5 1/4"	14-0515-11	14-0515-31	14-0525-11	14-0525-31
7"	14-0715-11	14-0715-31	14-0725-11	14-0725-31
8 3/4"	14-0815-11	14-0815-31	14-0825-11	14-0825-31
10 1/2"	14-1015-11	14-1015-31	14-1025-11	14-1025-31
12 1/4"	14-1215-11	14-1215-31	14-1225-11	14-1225-31
14"	14-1415-11	14-1415-31	14-1425-11	14-1425-31

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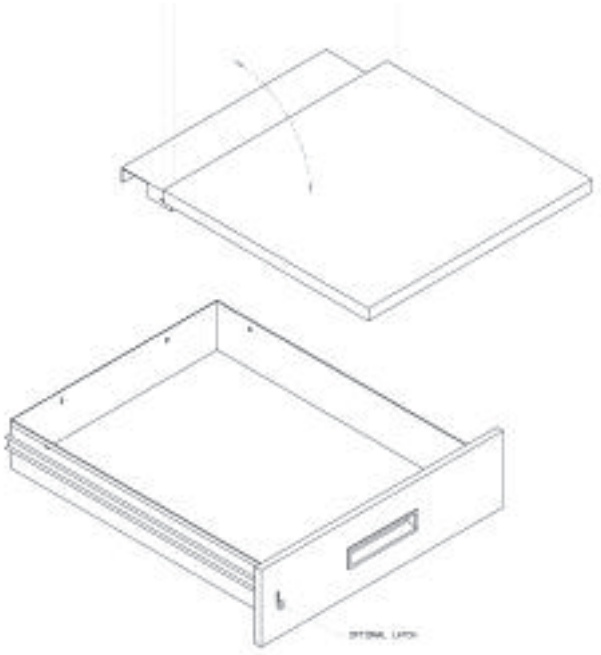
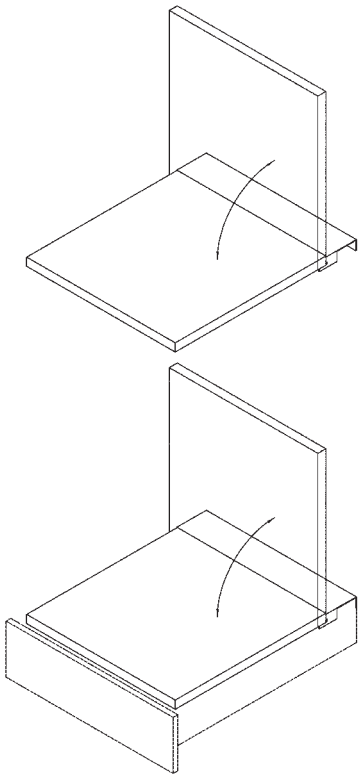
Hinged Drawer Shelves can be used to convert storage drawers to extensible intermittent use work areas for supporting test instruments or similar equipment



Hinged Drawer Shelves

Hinged Drawer Shelves are used to convert storage drawers to usable work areas. They are designed to expand the work surface available upon which to set test instruments or similar equipment while in use. They fasten to the top edge of the drawer sides, at the rear of the drawer body. The Hinged Drawer Shelf is attached to the steel rear support panel with a continuous hinge and extends beyond the sides of the drawer body providing a convenient finger lift.

The shelf assembly is fastened along the top edge of the drawer body with the laminated plastic hinged panel extending beyond the drawer side to provide a finger lift



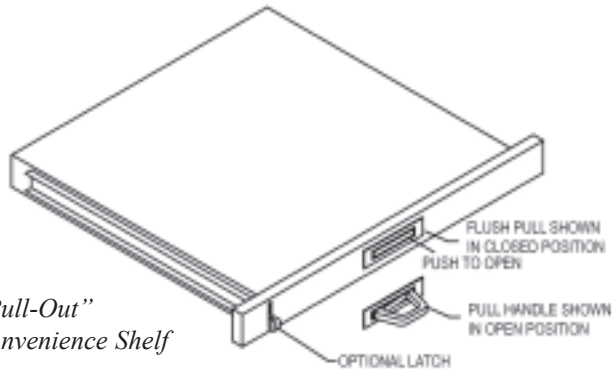
HINGED DRAWER SHELVES With Laminated Plastic Lift Panel *(Please specify color of laminate)*		
	Cabinet Depth	Part Number
19”	18 1/2”	16-1918-01
	22”	16-1920-01
	25 1/2”	
	30 3/4”	
	36”	
24”	18 1/2”	16-1918-01
	22”	16-1920-01
	25 1/2”	
	30 3/4”	
	36”	

"Pull-Out" Convenience Shelf/ Sliding Chassis Shelves

Pull-Out Shelves can be installed in the vertical panel openings in Challenger Vertical Racks or Sloped Front Consoles. They are used as extendable work platforms which take up 1 3/4" of instrument panel space. They are mounted on Ball Bearing Extension Slides. Pull-Out Shelves are normally shipped installed in the cabinet frame in the location specified.

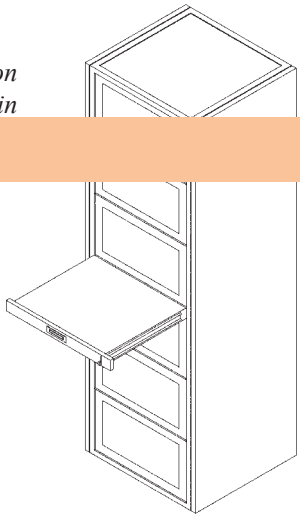
Product Features

- Available with or without latches
- Available Plain or Grilled in 19" and 24" panel widths



"Pull-Out" Convenience Shelf

Typical installation of Convenience Shelf in



"PULL-OUT" CONVENIENCE SHELVES**				
Depth of	Plain Shelf Assembly Part Number		Grilled Shelf Assembly Part Number	
	Non-Latch Type	Latch Type	Non-Latch Type	Latch Type
For cabinet frames with a 19" wide panel space				
18 1/2"	17-1918-02	17-1918-12	17-1918-03	17-1918-13
22"	17-1922-02	17-1922-12	17-1922-03	17-1922-13
25 1/2"	17-1925-02	17-1925-12	17-1925-03	17-1925-13
30 3/4"	17-1930-02	17-1930-12	17-1930-03	17-1930-13
36"	17-1936-02	17-1936-12	17-1936-03	17-1936-13
For cabinet frames with a 24" wide panel space				
18 1/2"	17-2418-02	17-2418-12	17-2418-03	17-2418-13
22"	17-2422-02	17-2422-12	17-2422-03	17-2422-13
25 1/2"	17-2425-02	17-2425-12	17-2425-03	17-2425-13
30 3/4"	17-2430-02	17-2430-12	17-2430-03	17-2430-13
36"	17-2436-02	17-2436-12	17-2436-03	17-2436-13

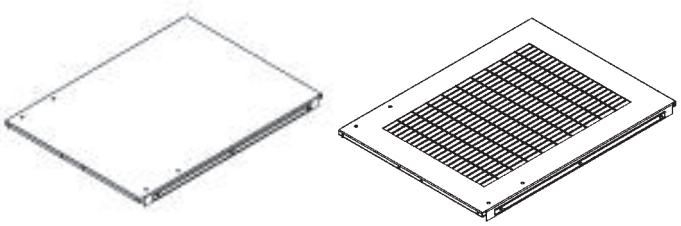
****If the shelf will be mounted in a rack that has *tapped* vertical mounting rails (in lieu of punched rails), then add a 'T' to the part number in order to receive the proper mounting hardware. Example: T17-1925-02**

Sliding Chassis Shelves

Sliding Chassis Shelves are designed to provide easy access to chassis or other equipment for servicing or adjustment. They are available with a solid or grilled shelf, mounted on ball bearing zinc-plated extension slides to assure smooth operation. The grilled shelf is 67% open, with 1/4" x 1 1/2" rectangular openings, separated by a 3/32" web, comprising the major portion of the shelf area.

Product Features

- Available with or without latches
- Available Plain or Grilled in 19" and 24" panel widths



Sliding Chassis Shelves are designed to give easy access to chassis and equipment

SLIDING CHASSIS SHELVES**				
Depth of	Plain Shelf Assembly Part Number		Grilled Shelf Assembly Part Number	
	Non-Latch Type	Latch Type	Non-Latch Type	Latch Type
For cabinet frames with a 19" wide panel space				
18 1/2"	13-1918-11	13-1918-12	13-1918-21	13-1918-22
22"	13-1922-11	13-1922-12	13-1922-21	13-1922-22
25 1/2"	13-1925-11	13-1925-12	13-1925-21	13-1925-22
30 3/4"	13-1930-11	13-1930-12	13-1930-21	13-1930-22
36"	13-1936-11	13-1936-12	13-1936-21	13-1936-22
For cabinet frames with a 24" wide panel space				
18 1/2"	13-2418-11	13-2418-12	13-2418-21	13-2418-22
22"	13-2422-11	13-2422-12	13-2422-21	13-2422-22
25 1/2"	13-2425-11	13-2425-12	13-2425-21	13-2425-22
30 3/4"	13-2430-11	13-2430-12	13-2430-21	13-2430-22
36"	13-2436-11	13-2436-12	13-2436-21	13-2436-22

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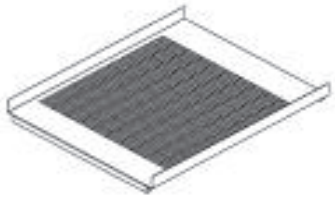
Equipment Shelves/ Chassis Supports

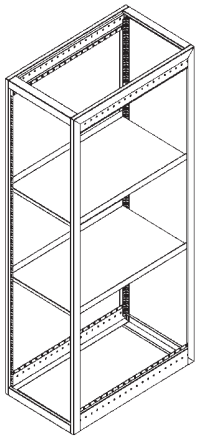
Equipment Shelves are designed to produce a rugged support surface for heavy equipment such as chassis or power supplies. They are ideal where additional support or accessibility is needed and for equipment that must be removed from time to time. Equipment Shelves can be installed in various locations in all Vertical Rack Cabinets as well as the lower frame section of all Sloped Front Consoles. They are usually shipped installed in the cabinet frame in the designated location.

Product Features

- 16 gauge steel construction
- Available Plain or Grilled in 19" and 24" panel widths
- Grill area open 67% with rectangular openings 1/4" x 1 1/2", separated by 3/32"web

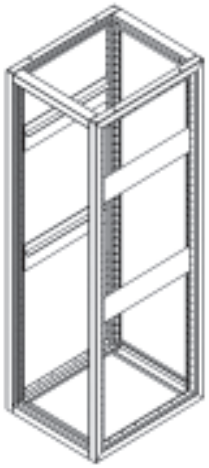


Equipment Shelf

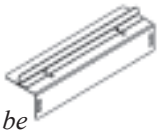


Equipment Shelves placed in various positions in Vertical Rack Frames will meet specific support requirements

EQUIPMENT SHELVES For Vertical Rack or Sloped Front Cabinets				
Depth	Plain Equipment Shelf Part Number	Grilled Equipment Shelf Part Number	Overall Shelf Width	Overall Shelf Depth
For cabinet with a 19" wide panel space				
18 1/2"	18-1918-01	18-1918-02	19.312"	16.69"
22"	18-1922-01	18-1922-02	19.312"	20.19"
25 1/2"	18-1925-01	18-1925-02	19.312"	23.69"
30 3/4"	18-1930-01	18-1930-02	19.312"	28.94"
36"	18-1936-01	18-1936-02	19.312"	34.19"
For cabinet with a 24" wide panel space				
18 1/2"	18-2418-01	18-2418-02	24.312"	16.69"
22"	18-2422-01	18-2422-02	24.312"	20.19"
25 1/2"	18-2425-01	18-2425-02	24.312"	23.69"
30 3/4"	18-2430-01	18-2430-02	24.312"	28.94"
36"	18-2436-01	18-2436-02	24.312"	34.19"



Adjustable Guide Angle



Several pairs of Chassis Supports can be mounted at various locations in Vertical Rack Frames as shown on left.

Chassis Supports

Chassis Supports are designed to support heavily loaded chassis where it is necessary to move the equipment into or out of the cabinet on an intermittent basis. They consist of two parts, including an 11-gauge steel formed angle support bracket, which mounts directly to the Vertical Mounting Rails with 10B Phillips Head sheet metal screws and Speed Nuts®, and an adjustable 16-gauge steel guide angle. Horizontal mounted Chassis Supports can be installed in all Vertical Rack Cabinets and are usually mounted at the bottom of the top sloped opening in Sloped Front Cabinets. Chassis Supports are usually shipped installed in the cabinet in the designated location.

Product Features

- Zinc Plating with Trivalent Chromium Passivation
- Available for horizontal and angular mounting

CHASSIS SUPPORTS**	
Overal Depth c Frame	For Vertical Rack and Bench Top Racks Part Number
18 1/2"	15-0118-02
22"	15-0122-02
25 1/2"	15-0125-02
30 3/4"	15-0130-02
36"	15-0136-02

***Sold in Pairs*

*For Slope Front Consoles order part number 15-0200-02

Steel Frame Work/Writing Shelves

Work Writing Shelves are designed to provide a strong, stable work area. When mounted horizontally, they are ideal for use as heavy duty work surfaces or for installing auxiliary equipment.

Formed Steel or Laminated Plastic Insert Panels spanning the full width of the shelf. (Insert panels must be ordered separately. See page C57.)

Work Writing Shelves feature a rugged, welded frame structure supported by 3/16" x 1 3/8" steel Mounting Arms and 16-gauge steel support brackets mounted directly to the cabinet Vertical Mounting Rails. Mounting Panels and Mounting Arm Brackets are shipped installed in the cabinet frame. The Shelves are packaged separately with the Mounting Arms and hardware included.

Product Features

- Constructed of 16-gauge cold-rolled steel
- Attached with 14-gauge steel support arms
- Underside of shelves closed with 16-gauge steel panel and finished to match shelf

All Top Views

Single cabinet and shelf assembly

Double-width shelf installed on two cabinets joined side-by-side

Three cabinet assembly with a triple-width Work/Writing Shelf attached

Work/Writing Shelf Frame

***WORK WRITING SHELF FRAMES**
For In-Line Consoles

	Depth "B"	A Single Frame Only	Two Frames Joined Side-by-Side	Three Frames Joined Side-by-Side
		Part No.	Part No.	Part No.
For cabinet frames with a 19" wide panel space				
15"	18 1/2"	65-1118-15	65-2118-15	65-3118-15
	22"	65-1122-15	65-2122-15	65-3122-15
	25 1/2"	65-1125-15	65-2125-15	65-3125-15
	30 3/4"	65-1130-15	65-2130-15	65-3130-15
	36"	65-1136-15	65-2136-15	65-3136-15
18 1/2"	18 1/2"	65-1118-18	65-2118-18	65-3118-18
	22"	65-1122-18	65-2122-18	65-3122-18
	25 1/2"	65-1125-18	65-2125-18	65-3125-18
	30 3/4"	65-1130-18	65-2130-18	65-3130-18
	36"	65-1136-18	65-2136-18	65-3136-18
22"	18 1/2"	65-1118-22	65-2118-22	65-3118-22
	22"	65-1122-22	65-2122-22	65-3122-22
	25 1/2"	65-1125-22	65-2125-22	65-3125-22
	30 3/4"	65-1130-22	65-2130-22	65-3130-22
	36"	65-1136-22	65-2136-22	65-3136-22
25 1/2"	18 1/2"	65-1118-25	65-2118-25	65-3118-25
	22"	65-1122-25	65-2122-25	65-3122-25
	25 1/2"	65-1125-25	65-2125-25	65-3125-25
	30 3/4"	65-1130-25	65-2130-25	65-3130-25
	36"	65-1136-25	65-2136-25	65-3136-25
For cabinet frames with a 24" wide panel space				
15"	18 1/2"	65-1218-15	65-2218-15	65-3218-15
	22"	65-1222-15	65-2222-15	65-3222-15
	25 1/2"	65-1225-15	65-2225-15	65-3225-15
	30 3/4"	65-1230-15	65-2230-15	65-3230-15
	36"	65-1236-15	65-2236-15	65-3236-15
18 1/2"	18 1/2"	65-1218-18	65-2218-18	65-3218-18
	22"	65-1222-18	65-2222-18	65-3222-18
	25 1/2"	65-1225-18	65-2225-18	65-3225-18
	30 3/4"	65-1230-18	65-2230-18	65-3230-18
	36"	65-1236-18	65-2236-18	65-3236-18
22"	18 1/2"	65-1218-22	65-2218-22	65-3218-22
	22"	65-1222-22	65-2222-22	65-3222-22
	25 1/2"	65-1225-22	65-2225-22	65-3225-22
	30 3/4"	65-1230-22	65-2230-22	65-3230-22
	36"	65-1236-22	65-2236-22	65-3236-22
25 1/2"	18 1/2"	65-1218-25	65-2218-25	65-3218-25
	22"	65-1222-25	65-2222-25	65-3222-25
	25 1/2"	65-1225-25	65-2225-25	65-3225-25
	30 3/4"	65-1230-25	65-2230-25	65-3230-25
	36"	65-1236-25	65-2236-25	60-3236-25

* When ordering, specify if Work/Writing Shelf is to be used with Vertical Rack (VR) or Slope Front (SF) Console by adding suffix -VR or -SF

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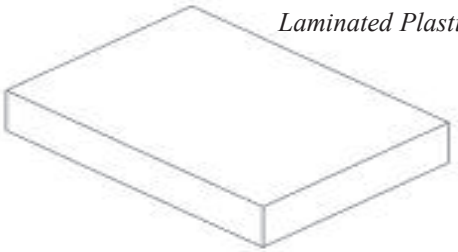
Laminated Plastic Console Shelves

*WORK WRITING SHELF FRAMES For In-Line Consoles				
	Depth "B"	A Single Frame Only	Two Frames Joined Side-by-Side	Three Frames Joined Side-by-Side
		Part No.	Part No.	Part No.
For cabinet frames with a 19" wide panel space				
15"	18 1/2"	60-1118-15	60-2118-15	60-3118-15
	22"	60-1122-15	60-2122-15	60-3122-15
	25 1/2"	60-1125-15	60-2125-15	60-3125-15
	30 3/4"	60-1130-15	60-2130-15	60-3130-15
	36"	60-1136-15	60-2136-15	60-3136-15
18 1/2"	18 1/2"	60-1118-18	60-2118-18	60-3118-18
	22"	60-1122-18	60-2122-18	60-3122-18
	25 1/2"	60-1125-18	60-2125-18	60-3125-18
	30 3/4"	60-1130-18	60-2130-18	60-3130-18
	36"	60-1136-18	60-2136-18	60-3136-18
22"	18 1/2"	60-1118-22	60-2118-22	60-3118-22
	22"	60-1122-22	60-2122-22	60-3122-22
	25 1/2"	60-1125-22	60-2125-22	60-3125-22
	30 3/4"	60-1130-22	60-2130-22	60-3130-22
	36"	60-1136-22	60-2136-22	60-3136-22
25 1/2"	18 1/2"	60-1118-25	60-2118-25	60-3118-25
	22"	60-1122-25	60-2122-25	60-3122-25
	25 1/2"	60-1125-25	60-2125-25	60-3125-25
	30 3/4"	60-1130-25	60-2130-25	60-3130-25
	36"	60-1136-25	60-2136-25	60-3136-25
For cabinet frames with a 24" wide panel space				
15"	18 1/2"	60-1218-15	60-2218-15	60-3218-15
	22"	60-1222-15	60-2222-15	60-3222-15
	25 1/2"	60-1225-15	60-2225-15	60-3225-15
	30 3/4"	60-1230-15	60-2230-15	60-3230-15
	36"	60-1236-15	60-2236-15	60-3236-15
18 1/2"	18 1/2"	60-1218-18	60-2218-18	60-3218-18
	22"	60-1222-18	60-2222-18	60-3222-18
	25 1/2"	60-1225-18	60-2225-18	60-3225-18
	30 3/4"	60-1230-18	60-2230-18	60-3230-18
	36"	60-1236-18	60-2236-18	60-3236-18
22"	18 1/2"	60-1218-22	60-2218-22	60-3218-22
	22"	60-1222-22	60-2222-22	60-3222-22
	25 1/2"	60-1225-22	60-2225-22	60-3225-22
	30 3/4"	60-1230-22	60-2230-22	60-3230-22
	36"	60-1236-22	60-2236-22	60-3236-22
25 1/2"	18 1/2"	60-1218-25	60-2218-25	60-3218-25
	22"	60-1222-25	60-2222-25	60-3222-25
	25 1/2"	60-1225-25	60-2225-25	60-3225-25
	30 3/4"	60-1230-25	60-2230-25	60-3230-25
	36"	60-1236-25	60-2236-25	60-3236-25

* When ordering, specify if Work/Writing Shelf is to be used with Vertical Rack (VR) or Slope Front (SF) Console by adding suffix -VR or -SF

Laminated Console Shelves are ideal for the use as a general work or writing surface and can be easily attached to all three basic cabinet frames. They are constructed of a one piece laminated plastic top surface with laminated plastic sides and front edge. The console Shelves are attached to the cabinet frame with 14-gauge steel support arms and bolted directly to the 3/16" thick Vertical Mounting Rails for support. The Mounting Panels and Mounting Arm Brackets are shipped installed in the cabinet frames; the Laminated Plastic Console Shelves and Mounting Arms are shipped separately with all mounting hardware included.

Laminated Plastic Console Shelf



Product Features

- Constructed of ¾" thick particle board
- Laminate available in a variety of colors and styles, bonded to top and all edge surfaces
- Attached with 14-gauge steel support arms
- Support Arms and frame adapter panels finished to match cabinet frame

All Top Views

Single cabinet and shelf assembly

Two cabinets with double-width Laminated Plastic Console Shelf

Three cabinets with triple-width Laminated Plastic Console Shelf

Laminated Plastic Angular Console Shelves

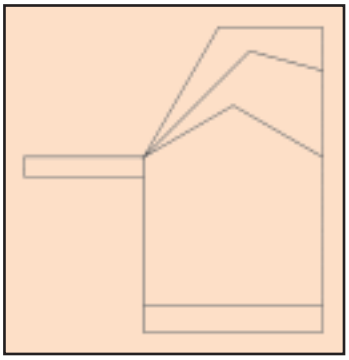
Challenger Laminated Angular Console Shelves add a nice appearance to angular assemblies. Laminated Angular Console Shelves are ideal for use as a general work or writing surface and can be easily attached to all three basic cabinet frames. In addition, special console assemblies with special shelf configurations are available to meet specific requirements.

The Shelves are attached to the cabinet frames with the same heavy duty support arms used in the mounting of the Work/Writing Shelves and bolted directly to the Vertical Mounting Rails. The support arms and frame adapter panels are usually finished to match the console frames. Laminated Plastic Angular Console Shelves are shipped separately with all mounting hardware included. The adapter panels are installed at the factory.

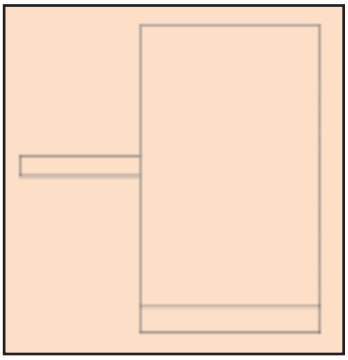
Product Features

- Constructed of ¾" thick particle board
- Laminate available in a variety of colors and styles, bonded to top and all edge surfaces
- Neutral-colored backing sheet bonded to bottom to minimize distortion
- Support Arms and frame adapter panels finished to match cabinet frame

Laminated Plastic Angular Console Shelves



Used with 15° Slope Front or 45° Double Slope Consoles



Attached to Vertical Rack Cabinets

Angular Laminated Plastic Shelf attached to five cabinet Angular Console Assembly

LAMINATED PLASTIC ANGULAR CONSOLE SHELVES
For Angular Console Assemblies

Type of Cabinet to which Laminated Plastic Angular Shelf will be attached	Four Cabinet Frames with Two Angular Frames		Five Cabinet Frames with Two Angular Frames		Six Cabinet Frames with Two Angular Frames	
	Width of Panel Space		Width of Panel Space		Width of Panel Space	
	19"	**24"**	**19"**	**24"**	**19"**	**24"**
***For Use with 30° Angular Cabinet Frames**						
Part Number	61-4123-__*	61-4223-__*	61-5123-__*	61-5223-__*	61-6123-__*	61-6223-__*
Shelf Depth	18 1/2"	18 1/2"	18 1/2"	18 1/2"	18 1/2"	18 1/2"
***For Use with 45° Angular Cabinet Frames**						
Part Number	61-4124-__*	61-4224-__*	61-5124-__*	61-5224-__*	61-6124-__*	61-6224-__*
Shelf Depth	18 1/2"	22"	18 1/2"	22"	18 1/2"	22"

* Must specify two part number suffixes: Cabinet Depth (-18, -22, -25, or -30) and cabinet profie type(Vertical Rack (-VR) or Slope Front Console (-SF)) Example: 61-4123-22-VR specifies a cabinet depth of 22" on a Vertical Rack.

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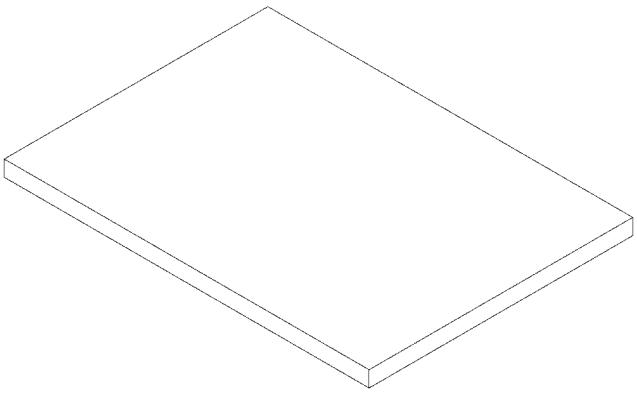
Steel or Laminated Plastic Work/Writing Top Insert Panels

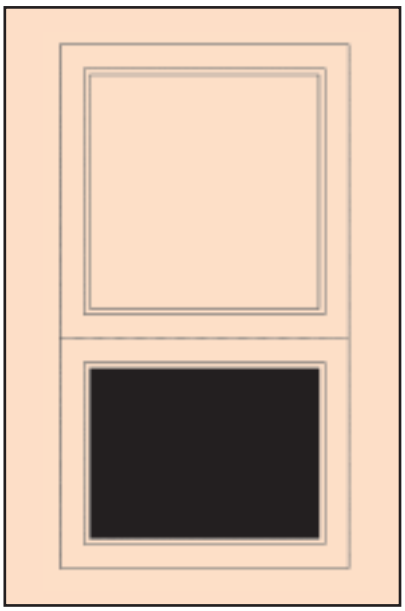
Insert Panels for the Challenger Work/Writing Shelf Frames are available in either Formed Steel or Laminated Plastic. The Laminate Panels are one piece and designed to be used as an unbroken work or writing surface. They are normally shipped with and installed in the Work/Writing Shelf Frames.

Product Features

- Constructed of laminated plastic inserts or 16-gauge steel
- Laminate available in a variety of colors and styles
- Neutral color plastic sheet bonded to the bottom surface to minimize distortion



Formed Steel or Laminated Plastic



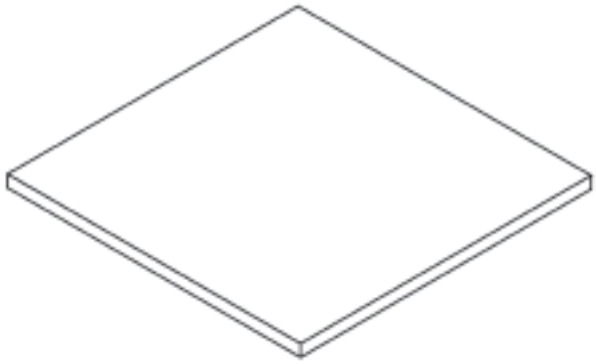
Top view of Single cabinet and shelf assembly

INSERT PANELS
LAMINATED PLASTIC OR FORMED STEEL
For Work/Writing Shelf Frames

Number of Frames	See Dimension "A"	See Dimension "B"	Width of Insert Panel	Laminated Plastic Insert Panels Part No.	Formed Steel Insert Panels Part No.
For cabinet frames with a 19" wide panel space					
Single Bay	15"	10 1/2"	19"	24-1910-01	20-1012-46
	18 1/2"	14"		24-1914-01	20-1412-46
	22"	17 1/2"		24-1917-01	20-1712-46
	25 1/2"	21"		24-1921-01	20-2112-46
Double Bay	15"	10 1/2"	40"	25-1519-21	27-1519-22
	18 1/2"	14"		25-1819-21	27-1819-22
	22"	17 1/2"		25-2219-21	27-2219-22
	25 1/2"	21"		25-2519-21	27-2519-22
Triple Bay	15"	10 1/2"	61"	25-1519-31	27-1519-32
	18 1/2"	14"		25-1819-31	27-1819-32
	22"	17 1/2"		25-2219-31	27-2219-32
	25 1/2"	21"		25-2519-31	27-2519-32
For cabinet frames with a 24" wide panel space					
Single Bay	15"	10 1/2"	24"	24-2410-01	20-1022-46
	18 1/2"	14"		24-2414-01	20-1422-46
	22"	17 1/2"		24-2417-01	20-1722-46
	25 1/2"	21"		24-2421-01	20-2122-46
Double Bay	15"	10 1/2"	50"	25-1524-21	27-1524-22
	18 1/2"	14"		25-1824-21	27-1824-22
	22"	17 1/2"		25-2224-21	27-2224-22
	25 1/2"	21"		25-2524-21	27-2524-22
Triple Bay	15"	10 1/2"	76"	25-1524-31	27-1524-32
	18 1/2"	14"		25-1824-31	27-1824-32
	22"	17 1/2"		25-2224-31	27-2224-32
	25 1/2"	21"		25-2524-31	27-2524-32

Laminated Plastic Insert Panels

Laminated Top Panels may be used in the top opening of Vertical Rack Cabinets instead of the formed steel panels usually used. There are many colors available to compliment the cabinet finishes. They are available in ten depths and two widths.



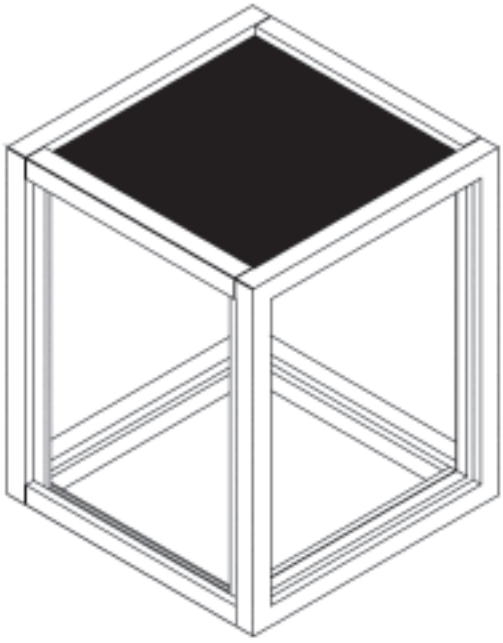
Laminated Plastic Insert Panel

Product Features

- Constructed of particle board
- Laminate available in a variety of colors and styles to compliment cabinet finishes
- Neutral color plastic sheet bonded to the bottom surface to minimize distortion

LAMINATED PLASTIC INSERT PANELS
For Top Openings in Vertical Rack Frames and Sloped Front Console Frames*

Depth of Panel Opening	Depth of Panel Opening
For 19" panel width frames	
3 1/2"	24-1903-01
7"	24-1907-01
10 1/2"	24-1910-01
12 1/4"	24-1912-01
14"	24-1914-01
15 3/4"	24-1915-01
17 1/2"	24-1917-01
21"	24-1921-01
26 1/4"	24-19026-01
31 1/2"	24-1931-01
For 24" panel width frames	
3 1/2"	24-2403-01
7"	24-2407-01
10 1/2"	24-2410-01
12 1/4"	24-2412-01
14"	24-2414-01
15 3/4"	24-2415-01
17 1/2"	24-2417-01
21"	24-2421-01
26 1/4"	24-2426-01
31 1/2"	24-2431-01



The screws are attached from the underside of the Laminated Plastic Insert panel

* Also for Opening in Extended Arm of Low Profile Frame

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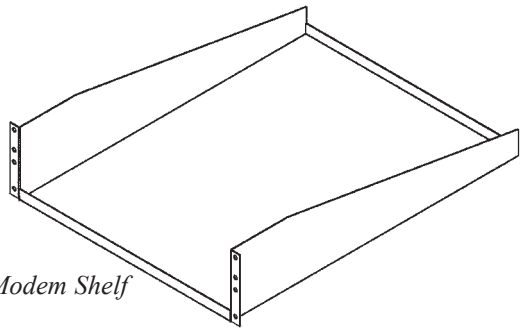
Modem Shelves & Buss Bars

Modem Shelves

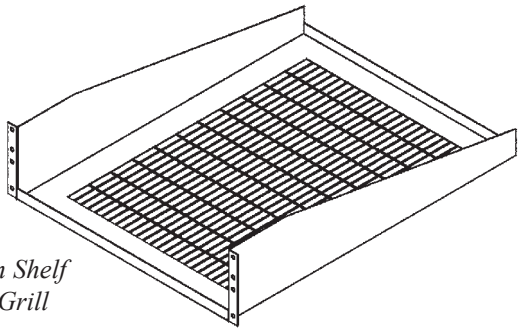
Cantilevered Shelves will support up to 50 lbs. evenly distributed, and can be used for supporting light weight equipment such as modems. They are made of 16-gauge steel and are available in plain or grilled for air flow.



Plain Modem Shelf

Product Features

- Constructed of 16-gauge steel
- Available in plain or grilled for air flow
- Available for use with 19" and 24" cabinet panel widths



Modem Shelf with Grill

MODEM SHELF**		
Overall Depth of Shelf	Plain Shelf Part No.	Grilled Shelf Part No.
For cabinet frame with a 19" panel width		
14"	480-119-010	480-119-019
18 1/2"	480-019-010	480-019-019
For cabinet frame with a 24" panel width		
14"	480-124-010	480-124-019
18 1/2"	480-024-010	480-024-019

****If the shelf will be mounted in a rack that has *tapped* vertical mounting rails (in lieu of punched rails), then add a T to the part number in order to receive the proper mounting hardware. Example: T480-119-010**

Copper Bus Bars

Copper Bus Bars are mounted vertically to Rail Support Channels and insulated at mounting points with nylon spacers. Bus Bars have 10-32 tapped holes spaced at 6" centers. If you do not want your Bus Bars insulated, please specify when ordering and we will mount them without insulating hardware. Bus Bars are shipped mounted in the left hand rear of the enclosure unless otherwise specified.

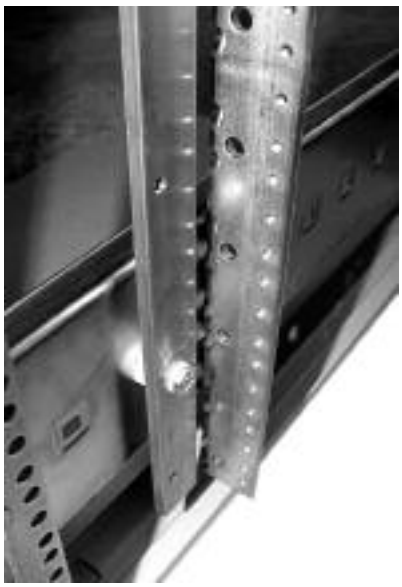
** For panel openings greater than 70" a 70" bus bar can be specified by adding a suffix to the end of P/N BB-0070-32. The two digit suffix is a dash and then two digits representing the panel opening of the frame it is to be mounted in.

Example - a 70" bus bar to fit in a panel opening of 77" would be BB-0070-32-77.

Please contact the factory if you have any questions.

BUSS BARS	
Vertical Panel Height	Part Number
22 3/4"	BB-0022-32
29 3/4"	BB-0029-32
35"	BB-0035-32
40 1/4"	BB-0040-32
43 3/4"	BB-0043-32
52 1/2"	BB-0052-32
61 1/4"	BB-0061-32
70" **	BB-0070-32

*For all Sloped Consoles, order Part number: BB-0136-32



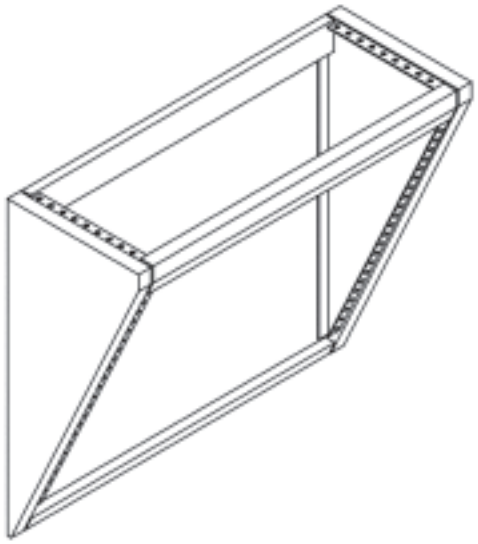
Copper Buss Bars for Challenger Racks

Turrets, Single Slope

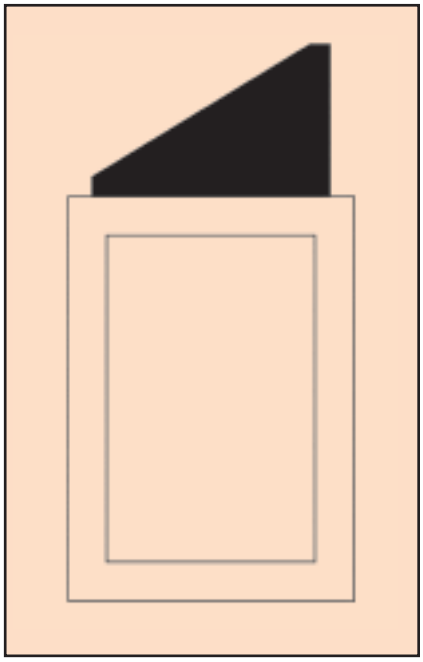
Turrets are used to meet human engineering and environmental requirements. They are used to bring fingertip control to operational equipment and provide closer operator surveillance functions. All Turrets in the Challenger System can be mounted either Vertically or Horizontally. When installed on Vertical Rack or Sloped Front Cabinets, they fit flush with frame and are fastened with 14-gauge steel joining channels, directly to the vertical mounting rails for secure support. The joining channels and all necessary mounting hardware are included with each Turret. Either flat or 5/8" formed instrument panels (not included) can be installed in any face of both types and styles of turrets.

Product Features

- 16-gauge steel construction
- Formed and welded into strong frame with side panels and instrument vertical mounting rails
- Flat or 5/8" formed instrument panels can be installed in either type or style of Turret
- Vertical Mounting Rails punched 9/32" holes for spring type fasteners, on centers per Universal E.I.A. Standard RS-310



Single Slope Turret



Single Slope Turret with front slope 30° from horizontal

SINGLE SLOPE TURRETS
For Front Slope 30° from Horizontal-Rear Vertical

Width of Turret Panel Space	Height of Instrument Panel Space			Overall Dimensions of Turret Frame			Part Number of Turret Frame
	Sloped Front Opening	Vertical Rear Opening	Bottom Opening	Front to Rear	Side to Side	Top to Base	
19"	12 1/4"	7"	12 1/4"	15 3/4"	21 1/16"	10 1/2"	48-1912-30
	17 1/2"	8 3/4"	17 1/2"	21"	21 1/16"	12 1/4"	48-1917-30
24"	12 1/4"	7"	12 1/4"	15 3/4"	26 1/16"	10 1/2"	48-2412-30
	17 1/2"	8 3/4"	17 1/2"	21"	26 1/16"	12 1/4"	48-2417-30

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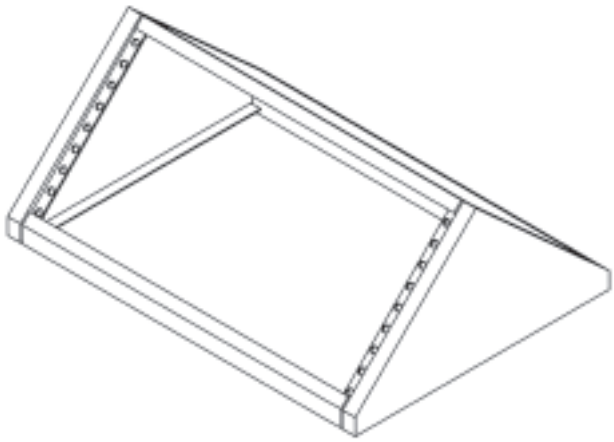
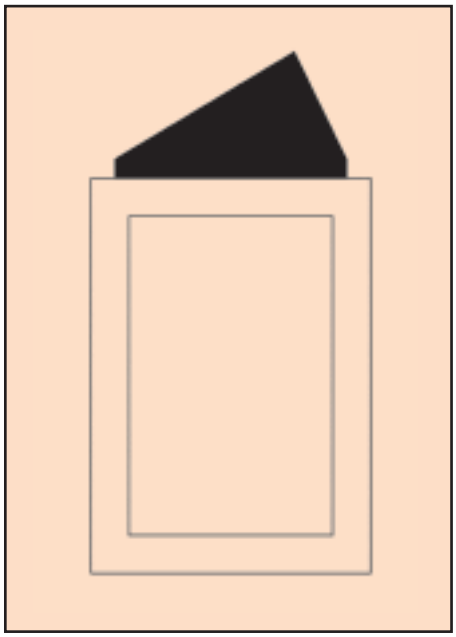
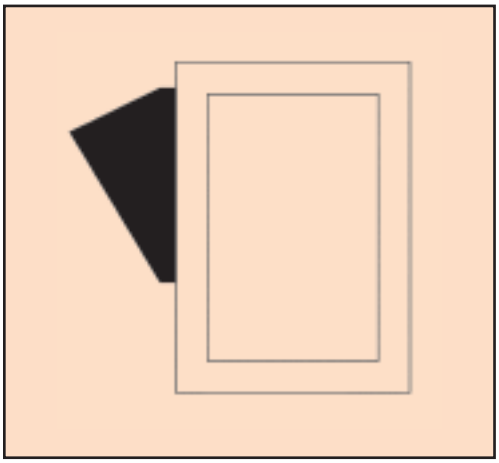


Double Slope Turret
mounted in typical horizontal position



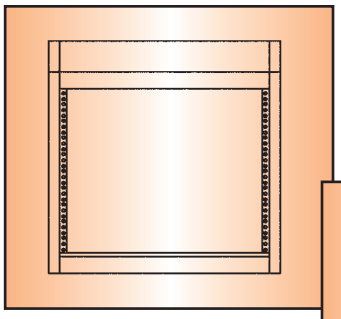
Double Slope Turrets can be mounted
vertically or horizontally



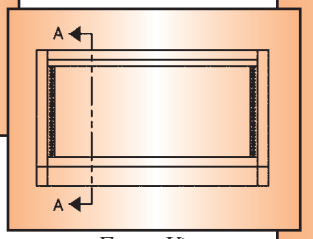
Double Slope Turret

DOUBLE SLOPE TURRETS For Front Slope 30° from Horizontal-Rear Slope 60° from Horizontal							
Width of Turret Panel Space	Height of Instrument Panel Space			Overall Dimensions of Turret Frame			Part Number of Turret Frame
	Sloped Front Opening	Sloped Rear Opening	Bottom Opening	Front to Rear	Side to Side	Top to Base	
19”	14”	7”	17 1/2”	21”	21 1/16”	10 27/32”	49-1914-30
	17 1/2”	8 3/4”	22 3/4”	26 1/4”	21 1/16”	13 1/8”	49-1917-30
24”	14”	7”	17 1/2”	21”	26 1/16”	10 27/32”	49-2414-30
	17 1/2”	8 3/4”	22 3/4”	26 1/4”	26 1/16”	13 1/8”	49-2417-30

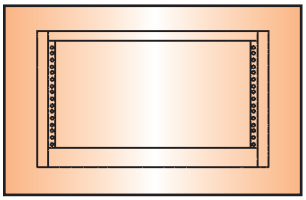
Turrets, Single Slope



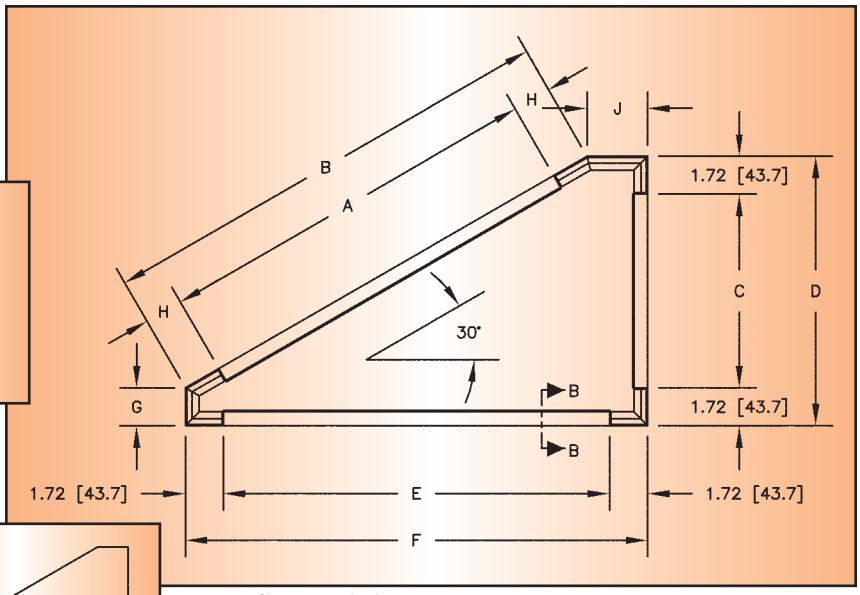
Top View



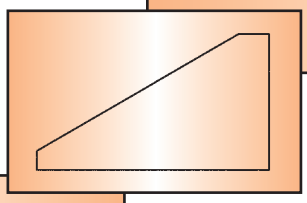
Front View



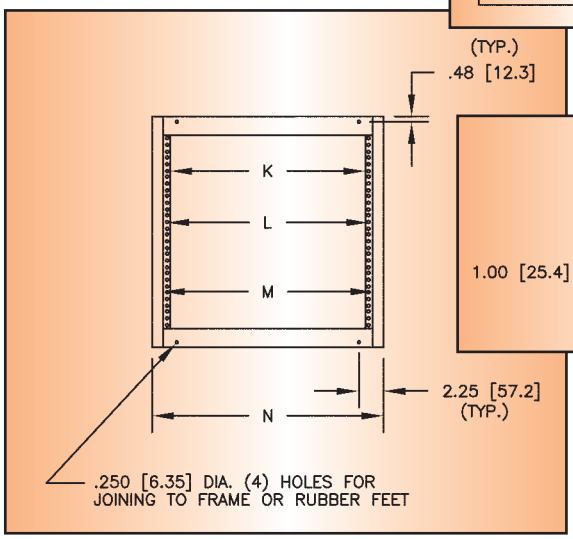
Rear View



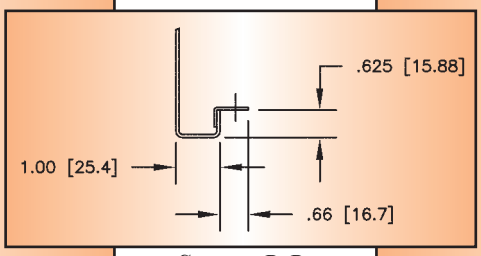
Section A-A



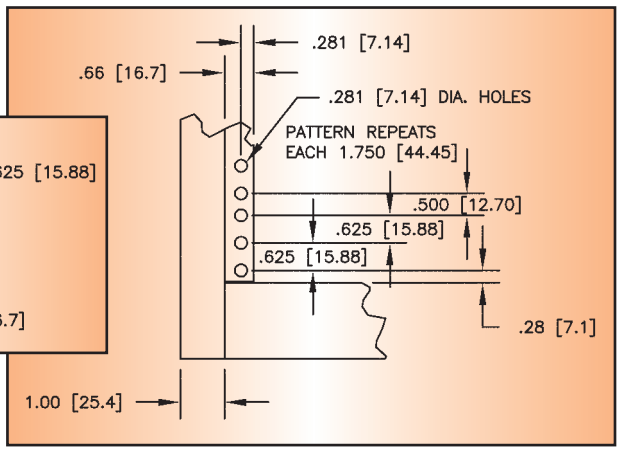
Side View



Bottom View



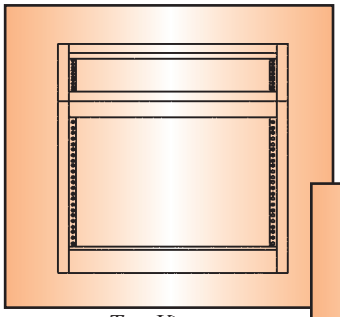
Section B-B



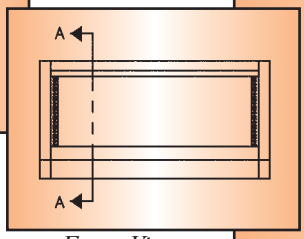
Panel Spacing

Part No.	A	B	C	D	E	F	G
48-1912-30	12.31 (312.7)	16.06 (408.0)	7.06 (179.4)	10.50 (266.7)	12.31 (312.7)	15.75 (400.1)	2.42 (61.5)
48-2412-30	12.31 (312.7)	16.06 (408.0)	7.06 (179.4)	10.50 (266.7)	12.31 (312.7)	15.75 (400.1)	2.42 (61.5)
48-1917-30	17.56 (446.1)	21.06 (535.0)	8.81 (223.8)	12.25 (311.2)	17.56 (446.1)	21.00 (533.4)	1.72 (43.7)
48-2417-30	17.56 (446.1)	21.06 (535.0)	8.81 (223.8)	12.25 (311.2)	17.56 (446.1)	21.00 (533.4)	1.72 (43.7)

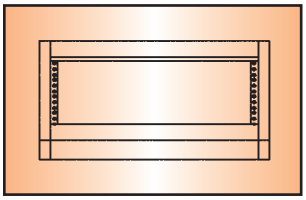
Part No.	H	J	K	L	M	N
48-1912-30	1.92 (48.8)	1.75 (44.5)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
48-2412-30	1.92 (48.8)	1.75 (44.5)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
48-1917-30	1.75 (44.5)	2.77 (70.3)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
48-2417-30	1.75 (44.5)	2.77 (70.3)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)



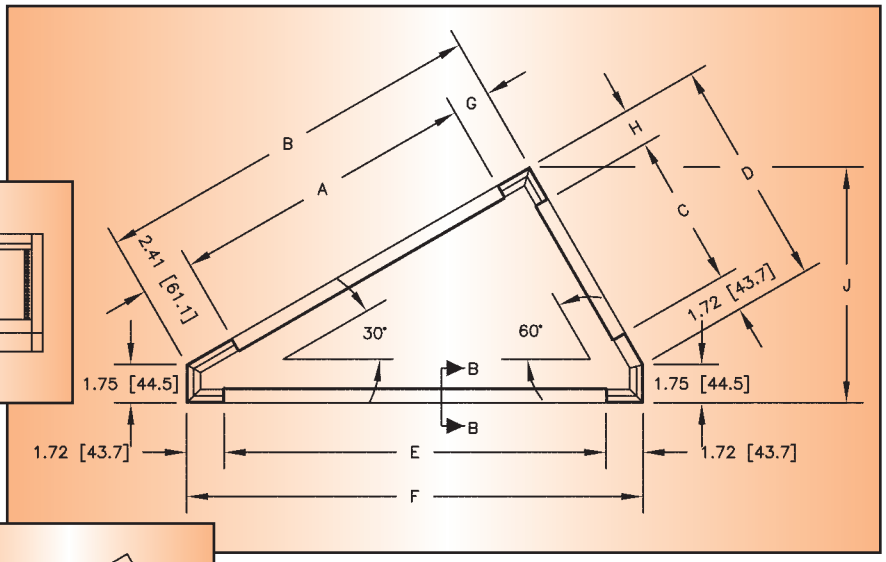
Top View



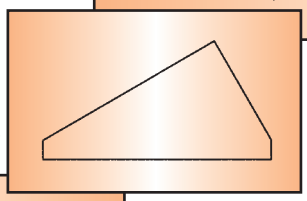
Front View



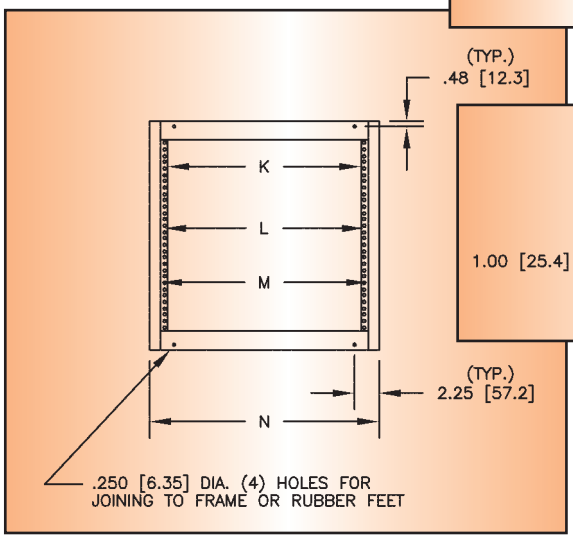
Rear View



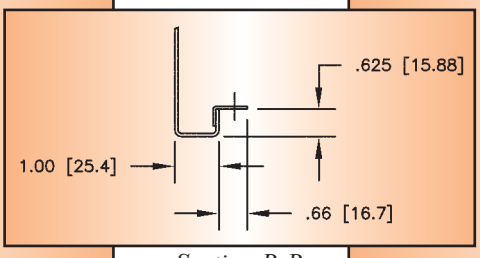
Section A-A



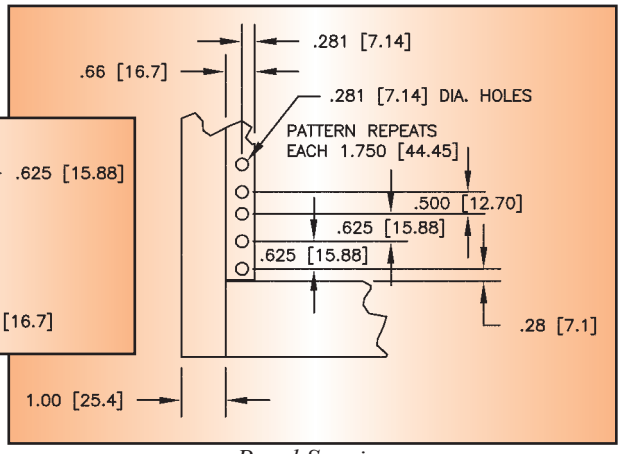
Side View



Bottom View



Section B-B



Panel Spacing

Part No.	A	B	C	D	E	F	G
49-1914-30	14.06 (357.2)	18.19 (462.0)	7.06 (179.4)	10.50 (266.7)	17.56 (446.1)	21.00 (533.4)	1.72 (43.7)
49-2414-30	14.06 (357.2)	18.19 (462.0)	7.06 (179.4)	10.50 (266.7)	17.56 (446.1)	21.00 (533.4)	1.72 (43.7)
49-1917-30	17.56 (446.1)	22.73 (577.5)	8.81 (223.8)	13.12 (333.4)	22.81 (579.4)	26.25 (666.8)	2.77 (70.3)
49-2417-30	17.56 (446.1)	22.73 (577.5)	8.81 (223.8)	13.12 (333.4)	22.81 (579.4)	26.25 (666.8)	2.77 (70.3)

Part No.	H	J	K	L	M	N
49-1914-30	1.72 (43.7)	10.84 (275.4)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
49-2414-30	1.72 (43.7)	10.84 (275.4)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)
49-1917-30	2.59 (65.9)	13.12 (333.4)	17.75 (450.9)	18.31 (465.1)	19.06 (484.2)	21.06 (535.0)
49-2417-30	2.59 (65.9)	13.12 (333.4)	22.75 (577.9)	23.31 (592.1)	24.06 (611.2)	26.06 (662.0)

Hardware and Miscellaneous

Mar-Proof Screws

For *punched* Vertical Mounting Rails. Screw 10B x 1 1/8"(80-0101-05) is used with 5/8" formed panels, while 10B x 5/8" (80-0102-05) is used with 1/8" flat panels. Screws & Speed Nuts® have Zinc Plating with Trivalent Chromium Passivation.

If *tapped* Vertical Mounting Rails are used, 5/8" Formed Instrument Panels are fastened to the mounting rails with 10-32 x 1" (80-0201-05) Phillips Head machine screws. 1/8" Flat Panels are fastened with 10-32 x 1/2"(80-0202-05) machine screws. Both screws have Mar-Proof recessed black nylon washers.

80-0202-05 80-0201-05

For mounting Flat or Formed Panels to tapped Vertical Mounting Rails

80-0102-05 80-0101-05

80-0401-03

For mounting Flat or Formed Panels to punched Vertical Mounting Rails

Fastening Vertical Mounting Rails

286-005-004 80-0405-03

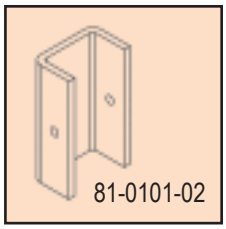
For mounting Vertical Mounting Rails

The Vertical Mounting Rails are fastened to all frames with 10B x 23/32" Phillips Head sheet metal screws, and Speed Nuts®. The screws and Speed Nuts® have Zinc Plating with Trivalent Chromium Passivation.

Joining Channel

Joining Channels join Turrets or Bench Top Racks to Cabinet Frames as well as cabinet frames front-to-back or back-to-back. The recommended number required for these panel heights are:

22 3/4"- 4
35"- 6
Over 35"- 8



81-0101-02

Gasketing

The gasketing of cabinet assemblies in the Challenger System of Modular cabinets is normally done at the factory, although gasketing may be installed in the field after installation of the enclosures. The field installed gasketing has a self-adhesive backing for ease of application. At the factory, a flat, neoprene sponge textured strip gasketing is applied to the panels and doors.

Gasket Number	
Installed	85-0505-01
Not Installed	85-0605-01

Joining Kits

For joining frames, side to side, we recommend a kit with all the required hardware and drilling for joining. One kit required per junction. The prefixes for hardware kits are:

HK -Hardware only.
HA -Hardware and assembly at factory. Multi bay assembly will ship as a single unit.

80-0304-03

80-0604-03

Joining Kits include above zinc-plated hardware for joining frames side-by-side

Joining Kits	
Vertical up to 28 3/4" Panel Space, Low Profile, Bench Top, 45° Double Slope	*__-4004
Verical from 29 3/4" to 54 1/4" Panel Space, 30° Double Slope, 15°Double Slope	*__-4006
Vetiical from 56" to 84" Panel Space	*__-4008

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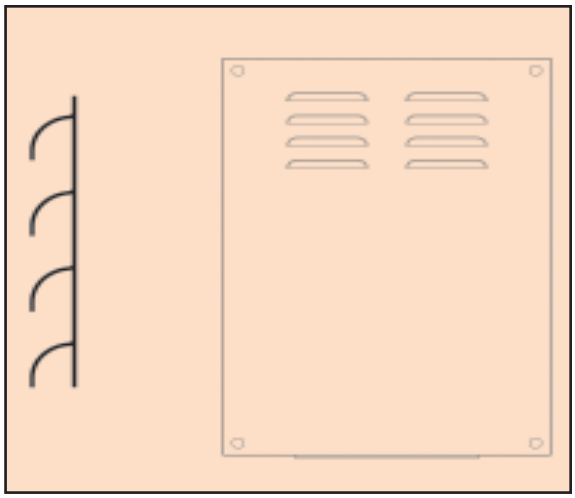
Notes

Panel and Door Styles

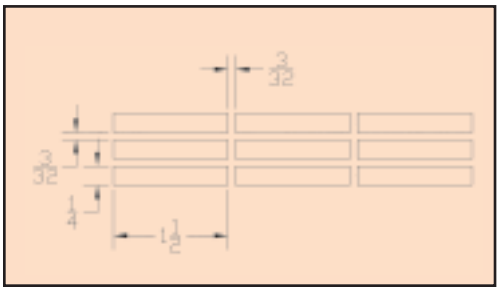
In the Challenger System, there are several types of Panel and Door styles to choose from. They include; Plain, Louvered, Grilled or Perforated. You may also choose an Acrylic Window Door, but only for the Vertical Rack Frames. Generally, to provide the most airflow into or out of a frame assembly, please specify grilled panels. The details on the different options are shown below and in the next pages.

Product Features

- Three types of panels include; Plain, Louvered, & Grilled
- Louvers provide one sq. inch of opening per louver
- Grilled panels provide the most air flow into or out of a frame assembly.



Above is the detail of louvering. Louvers provide approximately one square inch of opening per louver.



Above is the grill detail. Grills are 1.5"x 0.25", providing 67% open area.

PANEL AND DOOR SUFFIX*	
Type of Door or Panel	Suffix Number
Plain Panel	46
Louvered Panel	11
Perforated Panel	31
Plain Door	46
Fully Louvered Door	11
Louvered-Top Only	12
Louvered-Bottom Only	13
Louvered-Top & Bottom	14

PANEL AND DOOR SUFFIX
For 19" and 24" Vertical Rack and Bench Top Rack Frames**

Type of Door or Panel	Plain	Louvered				Grilled						Perforated	Window Door
						With Filter			Without Filter				
		Top	Bottom	Top & Bottom	Fully	Top	Bottom	Top & Bottom	Top	Bottom	Top & Bottom		
Side Panel/LH	11	22	23	24	25	26	27	18					
Side Panel/RH	11	32	33	34	35	36	37	18					
Flush & Face Mtd. Door	46	12	13	14	11	62	63	64	22	23	24		
Front & Rear Panels	46	12	13	14	11	62	63	64	22	23	24	31*	
Top Panel	46	11				65			25			31	
Bottom Panel	01						06			02			
Face Mtd. Brnz. Window	01												81

Note: Vertical Rack frame heights are available in any increment of 1 3/4".
*Available to 28" high
**Add this style number to the partial part number of a Vertical Rack frame or Bench Top Rack frame.

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PANEL AND DOOR SUFFIX
For 15° Sloped Front Consoles and 30° and 45° Double Slope Consoles**

Type of Door or Panel	Plain	Louvered				Grilled						Perforated
						With Filter			Without Filter			
		Top	Bottom	Top & Bottom	Fully	Top	Bottom	Top & Bottom	Top	Bottom	Top & Bottom	
Side Panel/LH	21		23							27		
Side Panel/RH	31		33							37		
Flush & Face Mtd. Door	46	12	13	14	11	62	63	64	22	23	24	
Front & Rear Panels	46	12	13	14	11	62	63	64	22	23	24	31*
Sloped Panel	46				11	65			25			31
Bottom Panel	01						06			02		

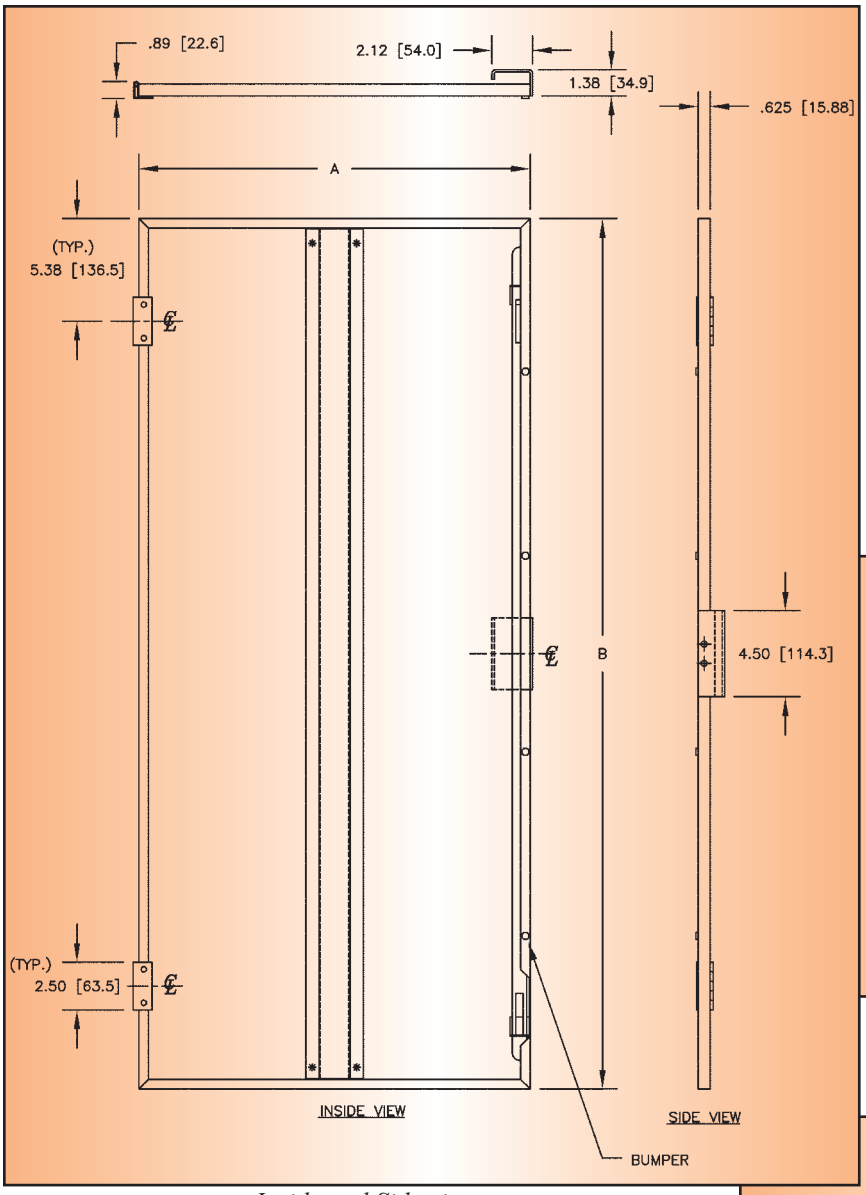
*Available to 28" high
**Add this style number to the partial part number of the Sloped Front console or Double Slope console.

PANEL AND DOOR SUFFIX
For 45° Low Profile Frames**

Type of Door or Panel	Plain	Louvered				Grilled						Perforated
						With Filter			Without Filter			
		Top	Bottom	Top & Bottom	Fully	Top	Bottom	Top & Bottom	Top	Bottom	Top & Bottom	
Side Panel/LH	11	22	23	24	25				26	27	18	
Side Panel/RH	11	32	33	34	35				36	37	18	
Flush & Face Mtd. Door	46	12	13	14	11	62	63	64	22	23	24	
Front & Rear Panels	46	12	13	14	11	62	63	64	22	23	24	31*
Rear Sloped Panel	46				11	65			25			31
Bottom Panel	01						06			02		

*Available to 28" high
**Add this style number to the partial part number of the Low profile frame.

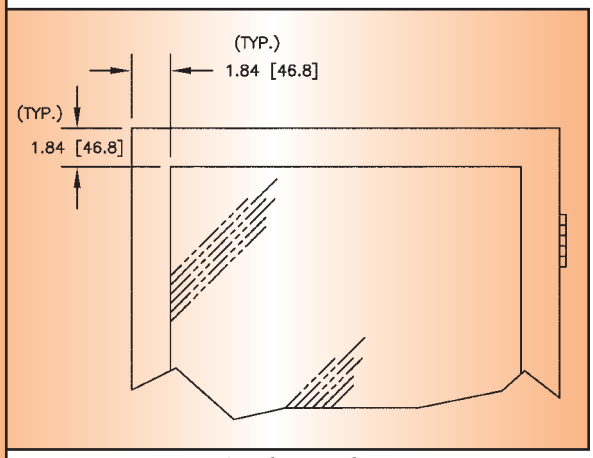
Doors, Face Mounted



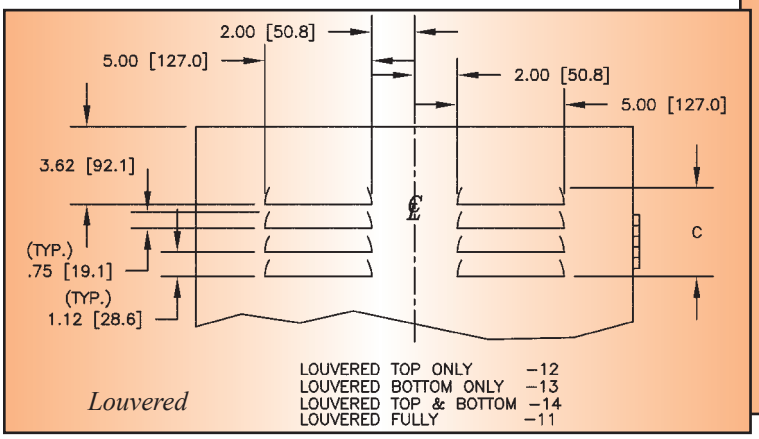
Inside and Side views

Notes:

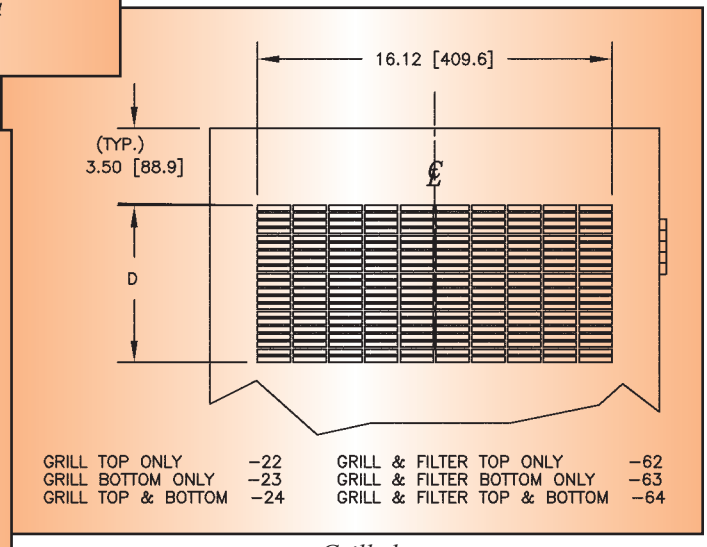
1. Plain Doors are fully invertible in the field. Hinges, Handles and Latch bars are all invertible and all drilling of frames is such that it allows inversion of doors without further drilling.
2. All hardware including hinges, handle and L.H. or R.H. strikes which are not invertible come with the door.
3. Two hinges are used on doors with B dimension 56.00 (1422.4) or less.
4. Three hinges are used on doors with B dimension 57.75 (1466.9) or greater.
   Two bumpers are used on doors with B dimension 35.00 (889.0) or less.
   Four bumpers are used on doors with B dimension 36.75 (933.5) or greater.
5. Louvers are formed externally. All louvers are open at the bottom, therefore louver doors are not invertible.



Acrylic Window



Louvered



Grilled

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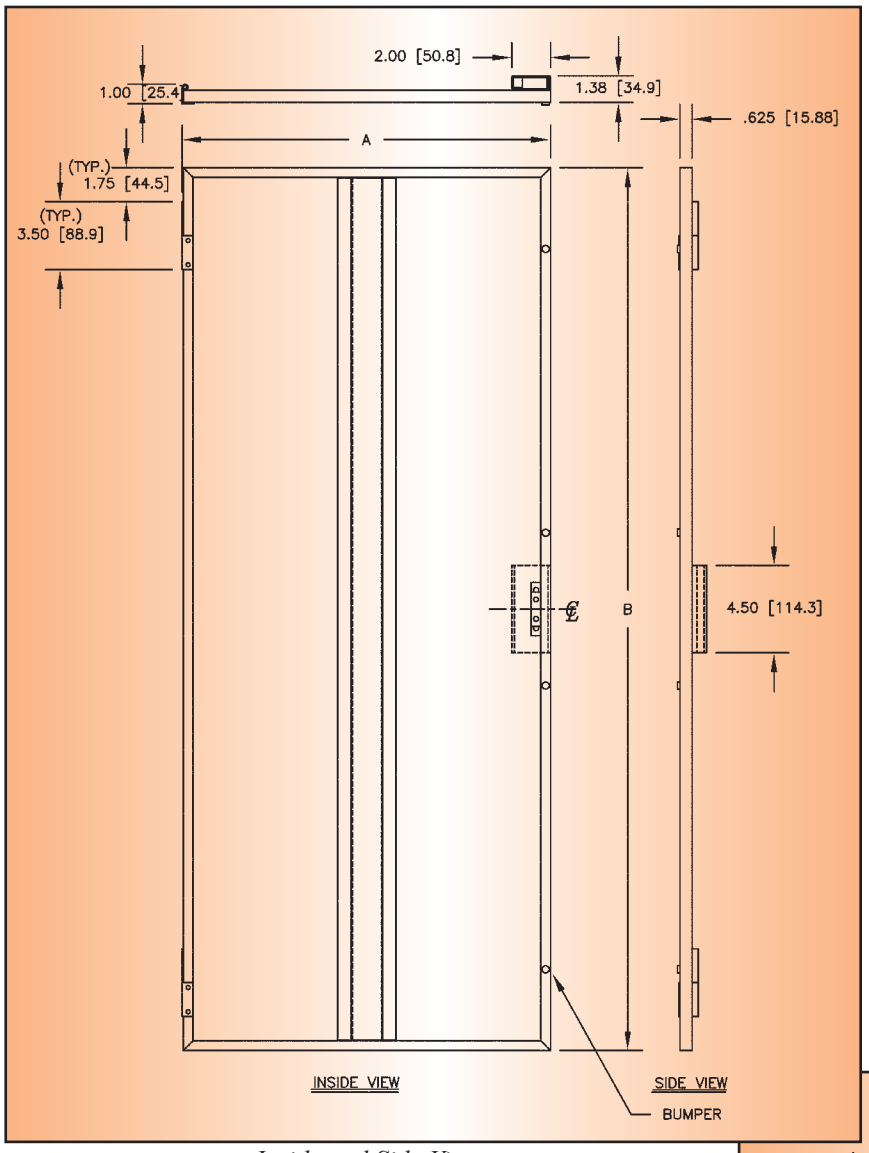
19" and 24" Panel widths

Face MTD., For 19" (482.6) Panel Width Frames						
L.H. Part No.	R.H. Part No.	A	B	C1	C2	D
11-2211-46	11-2215-46	20.44 (519.1)	24.50 (622.3)	4	17	3.69 (93.7)
11-2911-46	11-2915-46	20.44 (519.1)	31.50 (800.1)	4	23	3.69 (93.7)
11-3511-46	11-3515-46	20.44 (519.1)	36.75 (933.5)	4	27	3.69 (93.7)
11-3611-46	11-3615-46	20.44 (519.1)	38.50 (977.9)	4	29	3.69 (93.7)
11-4011-46	11-4015-46	20.44 (519.1)	42.00 (1066.8)	8	32	7.12 (181.0)
11-4311-46	11-4315-46	20.44 (519.1)	45.50 (1155.7)	8	35	7.12 (181.0)
11-4711-46	11-4715-46	20.44 (519.1)	49.00 (1244.6)	8	38	7.12 (181.0)
11-5211-46	11-5215-46	20.44 (519.1)	54.25 (1378.0)	8	43	7.12 (181.0)
11-6111-46	11-6115-46	20.44 (519.1)	63.00 (1600.2)	10	51	7.12 (181.0)
11-7011-46	11-7015-46	20.44 (519.1)	71.75 (1822.5)	12	59	14.34 (364.3)
11-7811-46	11-7815-46	20.44 (519.1)	80.50 (2044.7)	12	66	14.34 (364.3)

Face MTD., For 24" (609.6) Panel Width Frames						
L.H. Part No.	R.H. Part No.	A	B	C1	C2	D
11-2221-46	11-2225-46	25.44 (646.1)	24.50 (622.3)	4	17	3.69 (93.7)
11-2921-46	11-2925-46	25.44 (646.1)	31.50 (800.1)	4	23	3.69 (93.7)
11-3521-46	11-3525-46	25.44 (646.1)	36.75 (933.5)	4	27	3.69 (93.7)
11-3621-46	11-3625-46	25.44 (646.1)	38.50 (977.9)	4	29	3.69 (93.7)
11-4021-46	11-4025-46	25.44 (646.1)	42.00 (1066.8)	8	32	7.12 (181.0)
11-4321-46	11-4325-46	25.44 (646.1)	45.50 (1155.7)	8	35	7.12 (181.0)
11-4721-46	11-4725-46	25.44 (646.1)	49.00 (1244.6)	8	38	7.12 (181.0)
11-5221-46	11-5225-46	25.44 (646.1)	54.25 (1378.0)	8	43	7.12 (181.0)
11-6121-46	11-6125-46	25.44 (646.1)	63.00 (1600.2)	10	51	7.12 (181.0)
11-7021-46	11-7025-46	25.44 (646.1)	71.75 (1822.5)	12	59	14.34 (364.3)
11-7821-46	11-7825-46	25.44 (646.1)	80.50 (2044.7)	12	66	14.34 (364.3)

C1- Number of Louvers at Top and/or Bottom
C2- Number of Louvers, if Fully Louvered

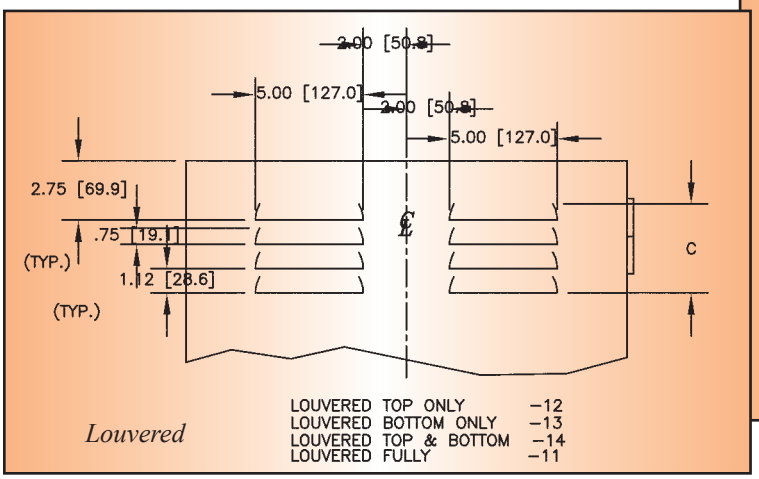
Doors, Flush Mounted



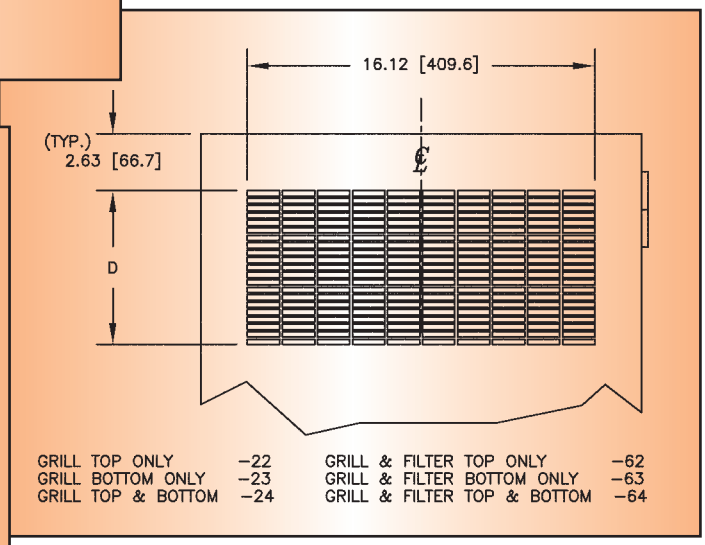
Inside and Side Views

Notes:

1. Plain Doors are fully invertible in the field. Hinges, Handles and Latch parts are all invertible. Doors mount directly to VMR's and require no drilling.
2. All hardware including hinges, handle and latch bracket come with the door.
3. Two hinges are used on doors with B dimension 56.00 (1422.4) or less.
4. Three hinges are used on doors with B dimension 57.75 (1466.9) or greater.
5. Louvers are formed externally. All louvers are open at the bottom, therefore louver doors are not invertible.



Louvered



Grilled

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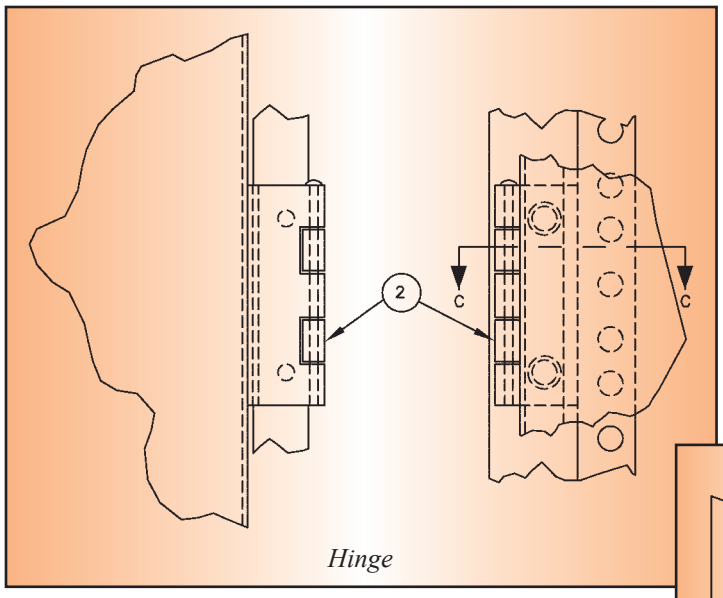
19" and 24" Panel widths

Flush MTD., For 19" (482.6) Panel Width Frames							
L.H. Part No.	R.H. Part No.	A	B	C1	C2	D	Grills
12-1411-46	12-1415-46	19.00 (482.6)	14.00 (355.6)	2	9	N/A	N/A
12-1511-46	12-1515-46	19.00 (482.6)	15.75 (400.1)	2	10	N/A	N/A
12-1711-46	12-1715-46	19.00 (482.6)	17.50 (444.5)	3	12	N/A	N/A
12-1911-46	12-1915-46	19.00 (482.6)	19.25 (489.0)	3	13	N/A	N/A
12-2111-46	12-2115-46	19.00 (482.6)	21.00 (533.4)	4	15	N/A	N/A
12-2211-46	12-2215-46	19.00 (482.6)	22.75 (577.9)	4	17	N/A	N/A
12-2811-46	12-2815-46	19.00 (482.6)	28.00 (711.2)	4	21	N/A	N/A
12-2911-46	12-2915-46	19.00 (482.6)	29.75 (755.7)	4	23	3.69 (93.7)	T&B
12-3511-46	12-3515-46	19.00 (482.6)	35.00 (889.0)	4	27	3.69 (93.7)	T&B
12-4011-46	12-4015-46	19.00 (482.6)	40.25 (1022.4)	8	32	3.69 (93.7)	T&B
12-4211-46	12-4215-46	19.00 (482.6)	42.00 (1066.8)	8	34	3.69 (93.7)	T&B
12-4311-46	12-4315-46	19.00 (482.6)	43.75 (1111.3)	8	35	7.12 (181.0)	T&B
12-4911-46	12-4915-46	19.00 (482.6)	49.00 (1244.6)	8	40	7.12 (181.0)	T&B
12-5211-46	12-5215-46	19.00 (482.6)	52.50 (1333.5)	8	43	7.12 (181.0)	T&B
12-5611-46	12-5615-46	19.00 (482.6)	56.00 (1422.4)	8	46	7.12 (181.0)	T&B
12-6111-46	12-6115-46	19.00 (482.6)	61.25 (1555.8)	10	51	7.12 (181.0)	T&B
12-7011-46	12-7015-46	19.00 (482.6)	70.00 (1778.0)	12	59	14.34 (364.3)	T&B
12-7811-46	12-7815-46	19.00 (482.6)	78.75 (2000.3)	12	66	14.34 (364.3)	T&B

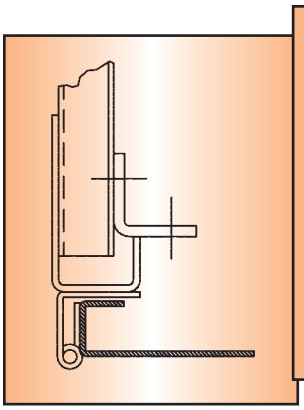
Flush MTD., For 24" (609.6) Panel Width Frames							
L.H. Part No.	R.H. Part No.	A	B	C1	C2	D	Grills
12-1421-46	12-1425-46	24.00 (609.6)	14.00 (355.6)	2	9	N/A	N/A
12-1521-46	12-1525-46	24.00 (609.6)	15.75 (400.1)	2	10	N/A	N/A
12-1721-46	12-1725-46	24.00 (609.6)	17.50 (444.5)	3	12	N/A	N/A
12-1921-46	12-1925-46	24.00 (609.6)	19.25 (489.0)	3	13	N/A	N/A
12-2121-46	12-2125-46	24.00 (609.6)	21.00 (533.4)	4	15	N/A	N/A
12-2221-46	12-2225-46	24.00 (609.6)	22.75 (577.9)	4	17	N/A	N/A
12-2821-46	12-2825-46	24.00 (609.6)	28.00 (711.2)	4	21	N/A	N/A
12-2921-46	12-2925-46	24.00 (609.6)	29.75 (755.7)	4	23	3.69 (93.7)	T&B
12-3521-46	12-3525-46	24.00 (609.6)	35.00 (889.0)	4	27	3.69 (93.7)	T&B
12-4021-46	12-4025-46	24.00 (609.6)	40.25 (1022.4)	8	32	3.69 (93.7)	T&B
12-4221-46	12-4225-46	24.00 (609.6)	42.00 (1066.8)	8	34	3.69 (93.7)	T&B
12-4321-46	12-4325-46	24.00 (609.6)	43.75 (1111.3)	8	35	7.12 (181.0)	T&B
12-4921-46	12-4925-46	24.00 (609.6)	49.00 (1244.6)	8	40	7.12 (181.0)	T&B
12-5221-46	12-5225-46	24.00 (609.6)	52.50 (1333.5)	8	43	7.12 (181.0)	T&B
12-5621-46	12-5625-46	24.00 (609.6)	56.00 (1422.4)	8	46	7.12 (181.0)	T&B
12-6121-46	12-6125-46	24.00 (609.6)	61.25 (1555.8)	10	51	7.12 (181.0)	T&B
12-7021-46	12-7025-46	24.00 (609.6)	70.00 (1778.0)	12	59	14.34 (364.3)	T&B
12-7821-46	12-7825-46	24.00 (609.6)	78.75 (2000.3)	12	66	14.34 (364.3)	T&B

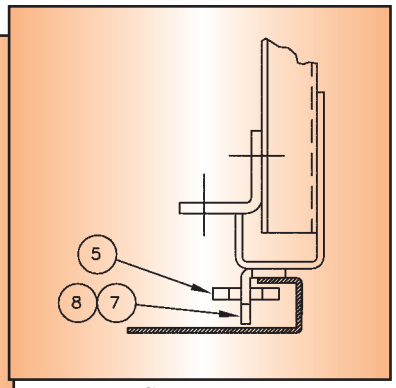
C1- Number of Louvers at Top and/or Bottom
C2- Number of Louvers, if Fully Louvered
NA- Grilled areas not offered
T & B- Grilled areas offered Top, Bottom or both

Hinge & Latch Details for Face Mounted Doors



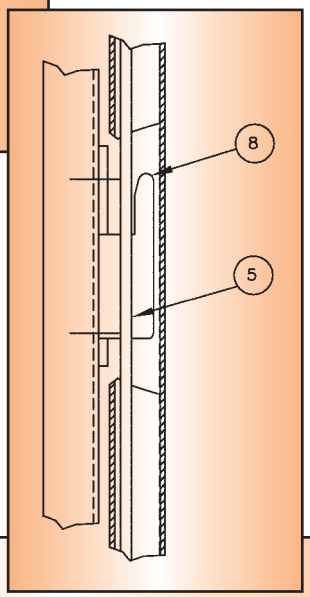
Hinge


Section CC

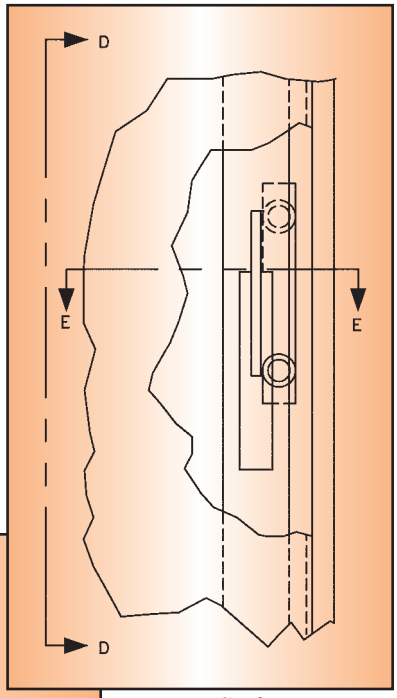


Section EE

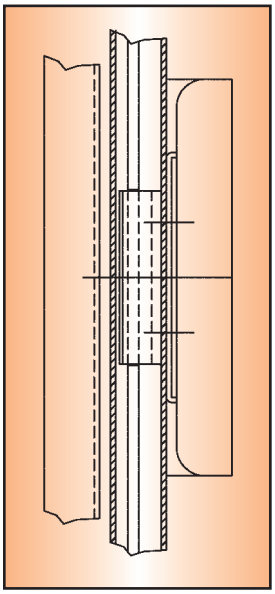
Part Name	Part No.
1. Handle	11-00-00-01
2. Hinge	11-00-00-03
3. Spacer	11-00-00-05
4. Latch Channel	11-00-00-06
5. Latch Bar	11-00-00-06
6. Stop	11-00-00-07
7. Strike, R.H.	11-00-00-15
8. Strike, L.H.shown	11-00-00-14

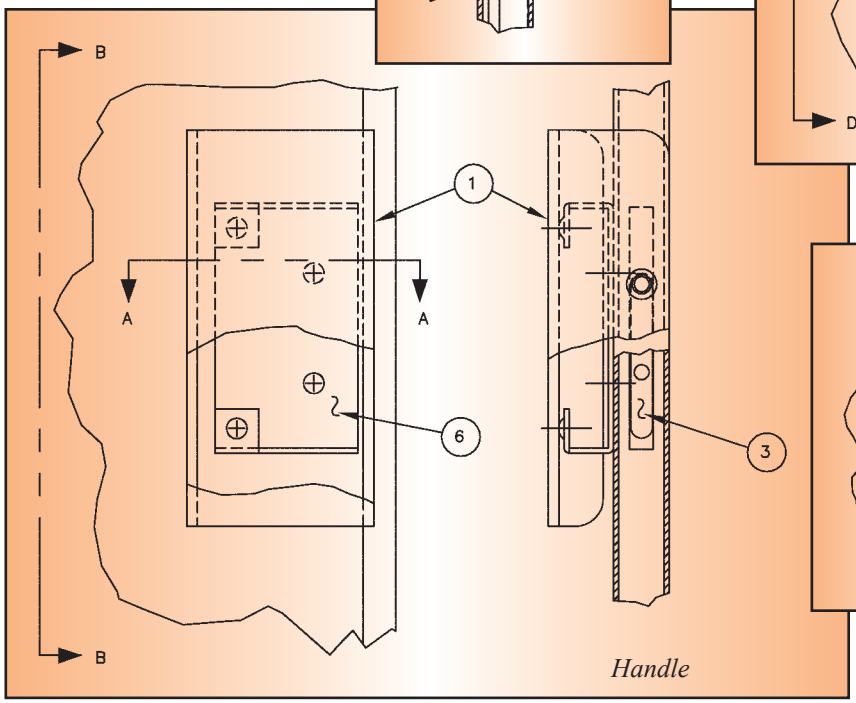


Section DD

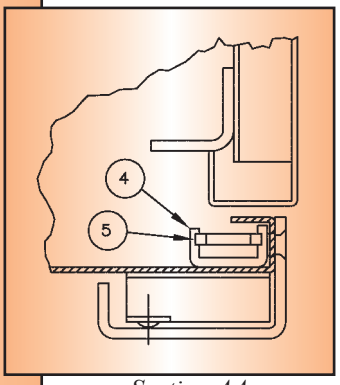


Strike


Section BB



Handle



Section AA

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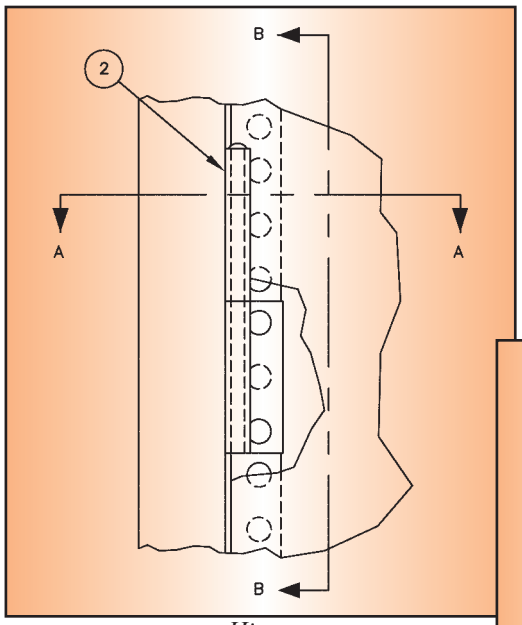
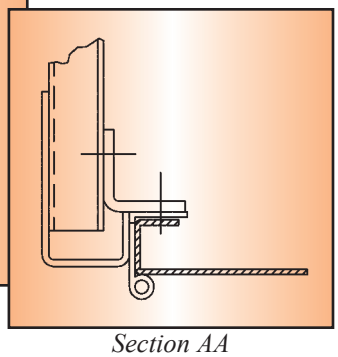
Hinge & Latch Details for Flush Doors



Hinge



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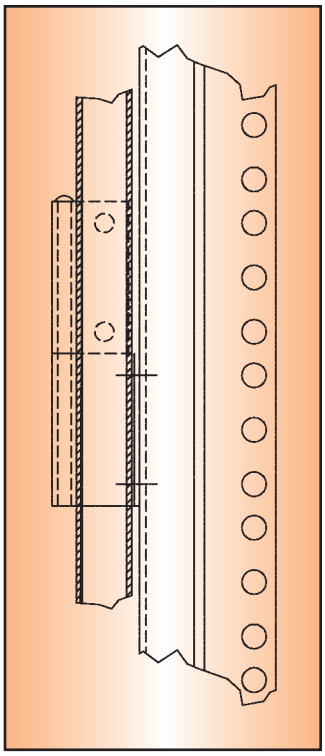
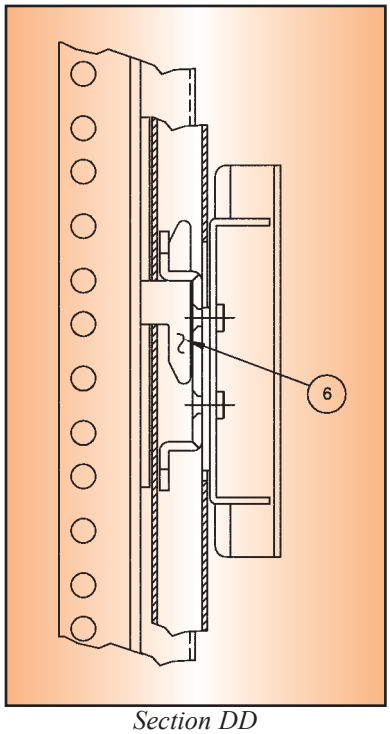


Section BB

Part Name	Part No.
1. Handle	12-01-00-06
2. Hinge	12-00-00-02
3. Spacer	11-00-00-05
4. Latch Bracket	12-03-00-06
5. Strike	12-00-00-05



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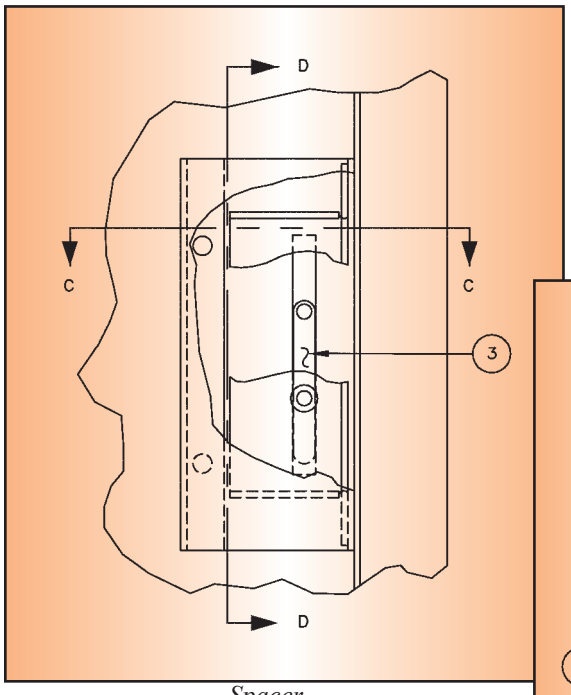
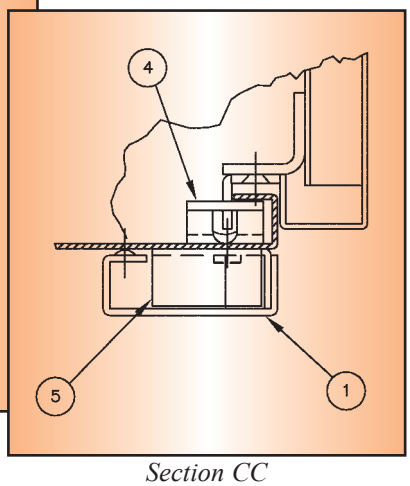


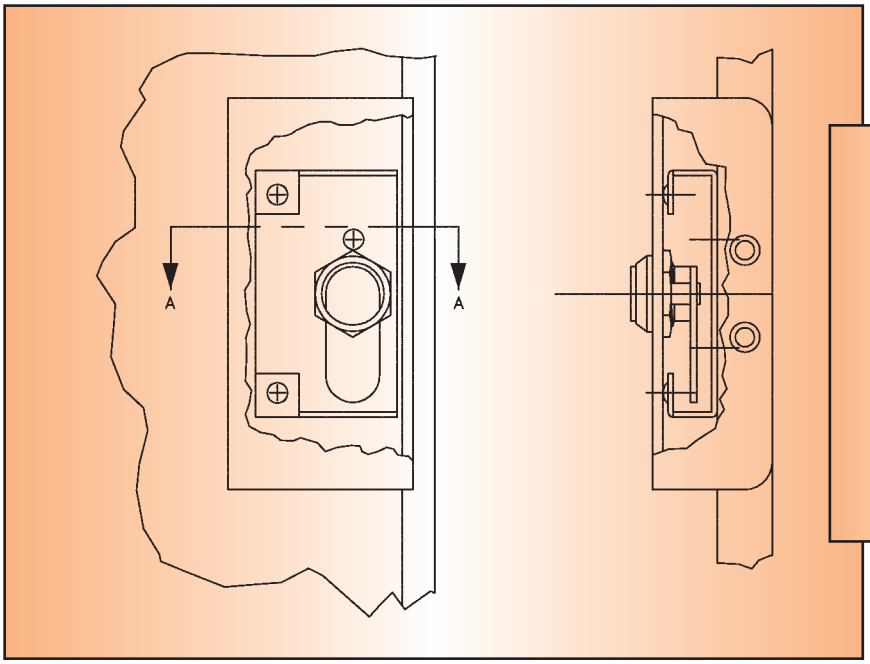
Spacer

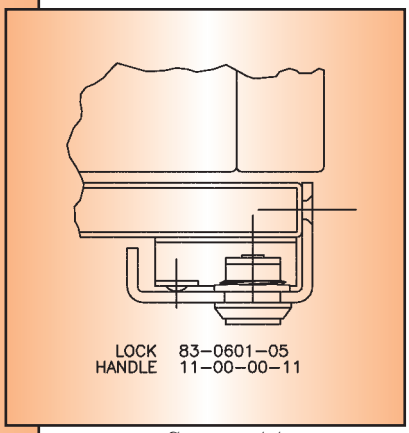


Section CC

Door Lock Details

Face Mounted Door

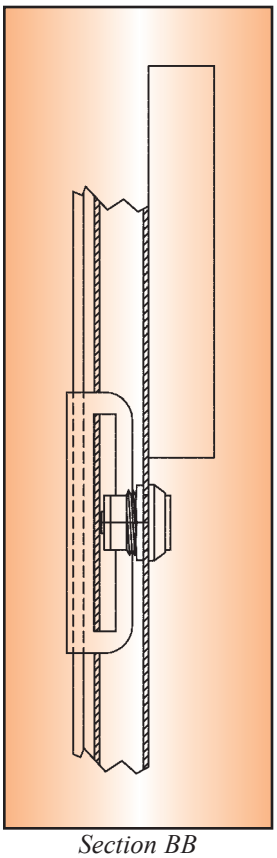




Section AA

Lock Part No. 83-0601-05
Handle Part No. 11-00-00-11

Flush Door



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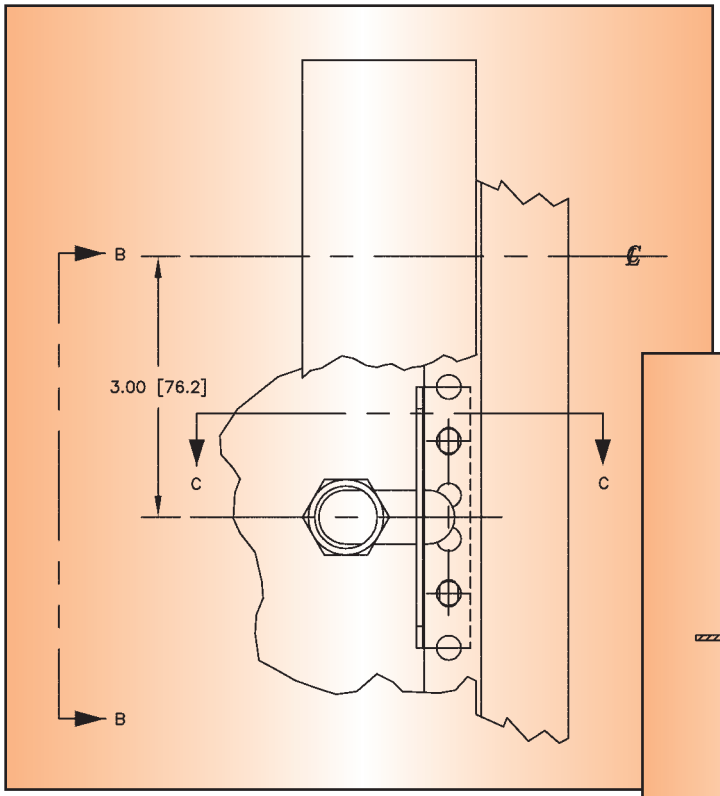
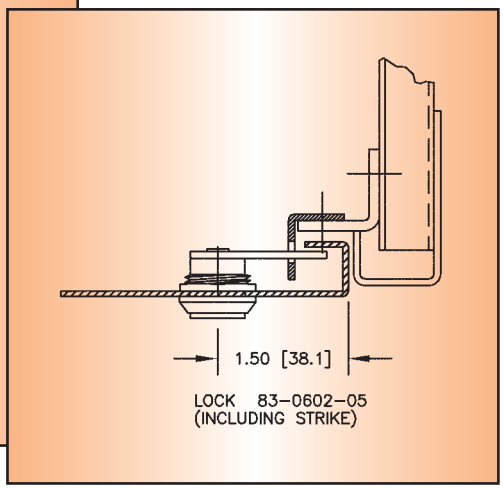


Lock Part No. 83-0602-05
(Including Strike)



Section CC

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