

# BOX RAIL AND HANGER INSTRUCTIONS

# **BOX RAIL CHECKLIST**

# RAIL

Plain Rail (6'-24') 5116 Plain Rail Hi-tensile 5114 Top Mount Rail with Flashing Brackets (8'-20') 5100 Trolley Rail Hi-tensile with Mounting/Flashing Brackets 5103 Trolley Rail with White Cover (8'-20') 5104 Top Mount Rail (8'-20') 5105 Face Mount Rail (8'-20') 5110 Covered Trolley Rail (6'-20') 59

# **RAIL/MOUNTING BRACKETS**

Single Bracket Single Splice Bracket 51G 51M Single Bracket (Adj.) Single Splice Bracket (Adj.) 51MS Rail End Cap 51ED Double Bracket [Adj.] 51M-2 Double Splice Bracket (Adj.) 51MS-2 Rail Bracket Only **51HB** Splice Bracket Only 51MSB Wall Mount Double Bracket 51H Wall Mount Double Joint Splice Bracket (Adj.) 51HS Wall Mount Triple Bracket [Adj.] 51K Wall Mount Triple Joint Splice Bracket 51KS Ceiling Mount Single Bracket 51J Ceiling Mount Single Joint Splice Bracket 51JS

# **HANGERS**

Delrin Bearings

 Rigid
 Flexible

 With Straight Bolt
 5001
 With Offset Bolts

 Offset Bolt
 5002
 8-1/2" with Lags
 5023

 TAB-LOC
 8-1/2" with Brackets
 5024

 TAB-LOC
 5030
 TAB-LOC with Brackets
 5030

 TAB-LOC with Brackets
 5031

With Door Straps
Single 5005
Single Single

Heavy Single 5006 Single
Double Strap 5008 Single
Ball-Bearing Swivel 5009 Double

# **FLASHING AND FLASHING BRACKETS**

Flashing for Easy Mount Trolley Rail 5100, 5103 and 5105 rail 10′ 5120 5110 and 59 rail 10′ 5122

Flashing Bracket for 5120 Flashing 5151 Steel Roller Bearings

Rigid Flexible
With Straight Bolt 5051 With Offset Bolts

Offset Bolt 5052 8-1/2" 5062
TAB-LOC 5053 8-1/2" with Brackets 5064
TAB-LOC 5070
TAB-LOC with Brackets 5071

 With Door Strap
 With Door Straps

 Single
 5055

 Single
 5080

 Double
 5087

# **DOOR FRAMES**

5040

5041

5042

5047

TAB-LOC (Steel) 6021, 6002, Easy Frame Verticals (steel and wood) 6060, 6059

# **BOTTOM GUIDE**

Continuous Bottom Guide 6061, 6062 Guide Rail 6004

# **ACCESSORY HARDWARE**

Pulls, Stops, Latches, etc.

For more information, see Sliding Door Systems Brochure, Form No. 1746



Rigid

5002

# TYPICAL RAIL/HANGER INSTALLATIONS

# TOP MOUNT 3-1/2" THICK DOORS 1-1/2" THICK DOORS

# **ALTERNATE TOP**

# **BY-PASS INSTALLATION**

# **TYPICAL TAB-LOC STEEL DOOR FRAME INSTALLATION**

Delrin

Steel

Bearing

■ Roller

■ Bearing ■

Flexible

Nos.

5030

5031

5070

5071

Rigid

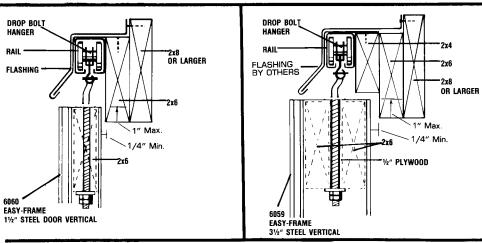
ALTERNATE HANGER

No. 5008

Nos.

5003

5053



TYPICAL BOTTOM INSTALLATIONS

5/16"x2¼" CARRIAGE BOLT

(AVAILABLE 6028

6005 GUIDE RAIL BRACKET

6004 GUIDE RAIL

No. 5104

BOLT

FURNISHED W/6005 BRACKET

EASY-FRAME

CONTINUOUS BOTTOM GUIDE FOR 11/2" DOORS EASY-FRAME

31/2" STEEL VERTICAL

CONTINUOUS BOTTOM GUIDE FOR 31/2" DOORS

**BOX RAIL CONFIGURATIONS** 

# FOR 3-1/2" THICK DOORS

**OFFSET BOLT HANGERS** 

🖣 Bearing 🕨

Steel ■ Roller

Bearing

HANGER INSTALLATION

1. Locate hangers to distribute load evenly, minimum 3" from edge of

3. Drop bolt through hole and assemble washer and one nut. Thread

4. Install door and make final vertical adjustment by raising and

5. To make lateral adjustment, grip the flat sides of trolley drop bolt

nut up on bolt until top of door is approximately 3/4" from bottom

door panels are 16' or wider, three hangers can be used).

lowering nut. Assemble and tighten lock nut.

2. Drill 9/16" hole through 2" x 6" top frame to accommodate bolt.

door. (Important - use only two hangers per door; however, if

Nos.

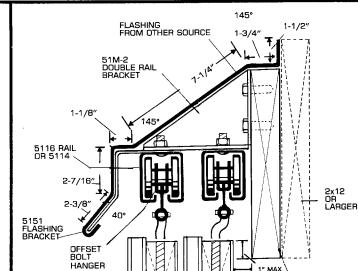
5022

5023 5024

5062

5064

Flexible

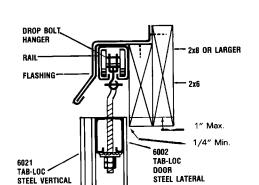


TYPICAL BOTTOM INSTALLATION

6061 CONTINUOUS BOTTOM GUIDE

6004 GUIDE RAIL

3/8" BOLT/NUT/WASHER



# HANGER INSTALLATION

- Insert trolley drop bolt through outer prepunched 9/16" hole in top lateral member. IMPORTANT use only two hangers per door; however, if door panels are 16' or wider, three hangers can be used.
- Assemble star washer, flange nut and locknut.
   Hang door make vertical adjustment with
- flat-sided drop bolt to obtain desired
- application. End caps may also be used as center stops with a 3/8" x 2" carriage bolt (not furnished). See Fig. 2.

TYPICAL BOTTOM

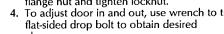
INSTALLATION

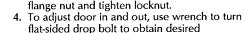
GUIDE BAIL

FURNISHED W/6005 BRACKET OPTIONAL %" x 2%" CARRIAGE BOLT.

NUT, WASHER (AVAILABLE #6028 6 EA.)

- flange nut and tighten locknut.
- clearance. 5. To secure system, bend opposite tabs of star washer into slot opening of top lateral. See





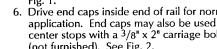
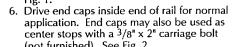


Fig. 1

6021 TAB-LOC T STEEL VERTICAL

6002 TAB-LOC

STEEL LATERAL





# with a wrench and turn to obtain desired clearance. Then drive nails (not furnished) through holes provided in flat washers. This locks hanger securely in position. 6. Drive end caps inside end of rail for normal application. End caps may also be used as center stops with 3/8" x 2" carriage bolts (not furnished). See illustration.

GUIDE RAIL BRACKET

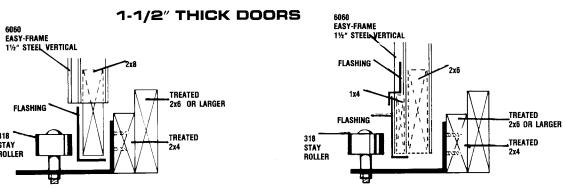
5/16"x21/4" CARRIAGE

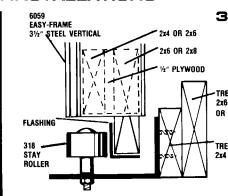
& WASHER

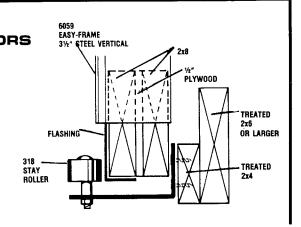
(AVAILABLE 6028

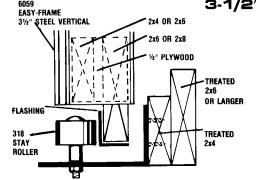
# **ALTERNATE BOTTOM INSTALLATIONS**

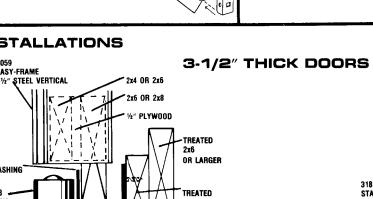
of the offset in the bolt.



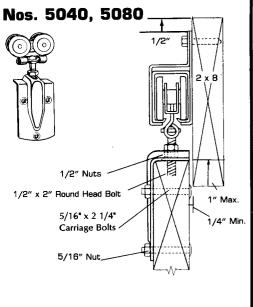


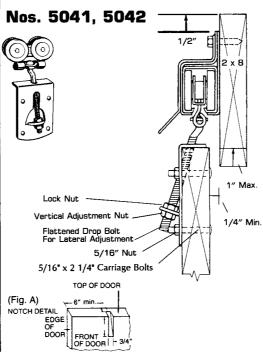


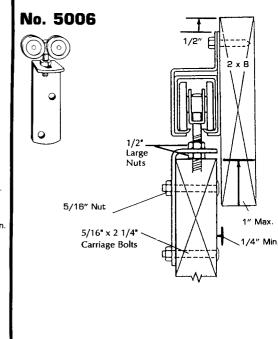


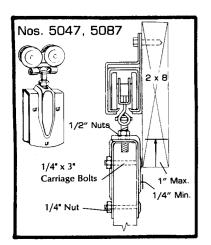


# **DOOR STRAP INSTALLATIONS**









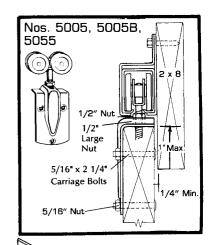
# HANGER INSTALLATION

- 1. All Hangers. Locate hangers to distribute load evenly, minimum 3" from edge of door. IMPORTANT use only two hangers per door; however, if door panels are 16' or wider, three hangers can be used.

  2. Hangers Nos. 5041, 5042 Only. Notch front of door for both hangers as shown in drawing (Fig. A).

  3. All Hangers (except No. 5008). Assemble hangers as shown and all the state of the process flush positions to perfect the content of the process flush positions of door.
- place them on door with top of hangers flush against top of door. (Use hanger as a template and drill holes for carriage bolts).
- 4. All Hangers (except Nos. 5041 and 5042). Using door strap as a template, mark and drill a hole in the top of door for connector bolt to allow
- full adjustment of hanger.

  5. All Hangers (except No. 5008). Mount hangers on door inserting as shown. Hanger door straps are mounted on outside of door and bolt heads must be inside of door.
- 6. Hanger No. 5008 Only. Use hanger for template to locate 1 1/2" x 14 flat head mounting screws. Mount hangers on door as shown on previous
- 7. Adjustments. Loosen lock nut. Vertical adjustments are made by raising or lowering vertical adjustment nut on 5041 or 5042. Lateral adjustments are made by turning the flattened drop bolt with a socurely against the door strap projection while holding the drop bolt with a wrench. On all others, lateral adjustments made with slot in door strap and vertical adjustments are made by turning flattened bolt with a wrench.
- After door is hung, drive end caps into end of rail for normal applications. End caps may also be used as center stops with 3/8" x 2" carriage bolts (not furnished). See Figure at right.



# 16 Gauge Rail and Hangers

Load Carrying Table (In pounds per door panel)

# Delrin 500CL Bearing Hangers

# Steel Roller Bearing Hangers

															patent No.4,642,844													
NEW #	5000	5001	5002	5003	5005	5006	5008	5009	5022	5023	5024	5030	5031	5040	5041	5042	5047	5050	5051	5052	5053	5055	5062	5064	5070	5071	5080	5087
OLD#		1050T			1050	5158	1054	853	5148	1052R	5149	6010	6011	1051	1052	1053			1060T			1060	1062	5162	6015		1061	
<u>, , , , , , , , , , , , , , , , , , , </u>		_								450				450		450						450					450	
∏ <sub>5100</sub>			450	450					450		450	450	450							450	450		450	450	450	450		
T 5103																		600		600	600		600	600	600	600		$oxed{oxed}$
5104			450	450					450			450				<u></u>				450	450		450		450			L
☐ 5105			450	450	450	450			450			450					450			450	450		450		450			_
5110		450			450	450				450				450	450	450	450		450			450					450	<u> </u>
[] 5114																		600	600			600		<u> </u>			600	600
[] 5116	450	450			450	450	450	450						450	450	450	450		450			450					450	

Form No. 1775R

Many hangers are specially packaged for a particular rail; however, any hanger in this table can be used with any rail in this table for doors up to 450 lbs.