

# BOX RAIL AND HANGER INSTRUCTIONS

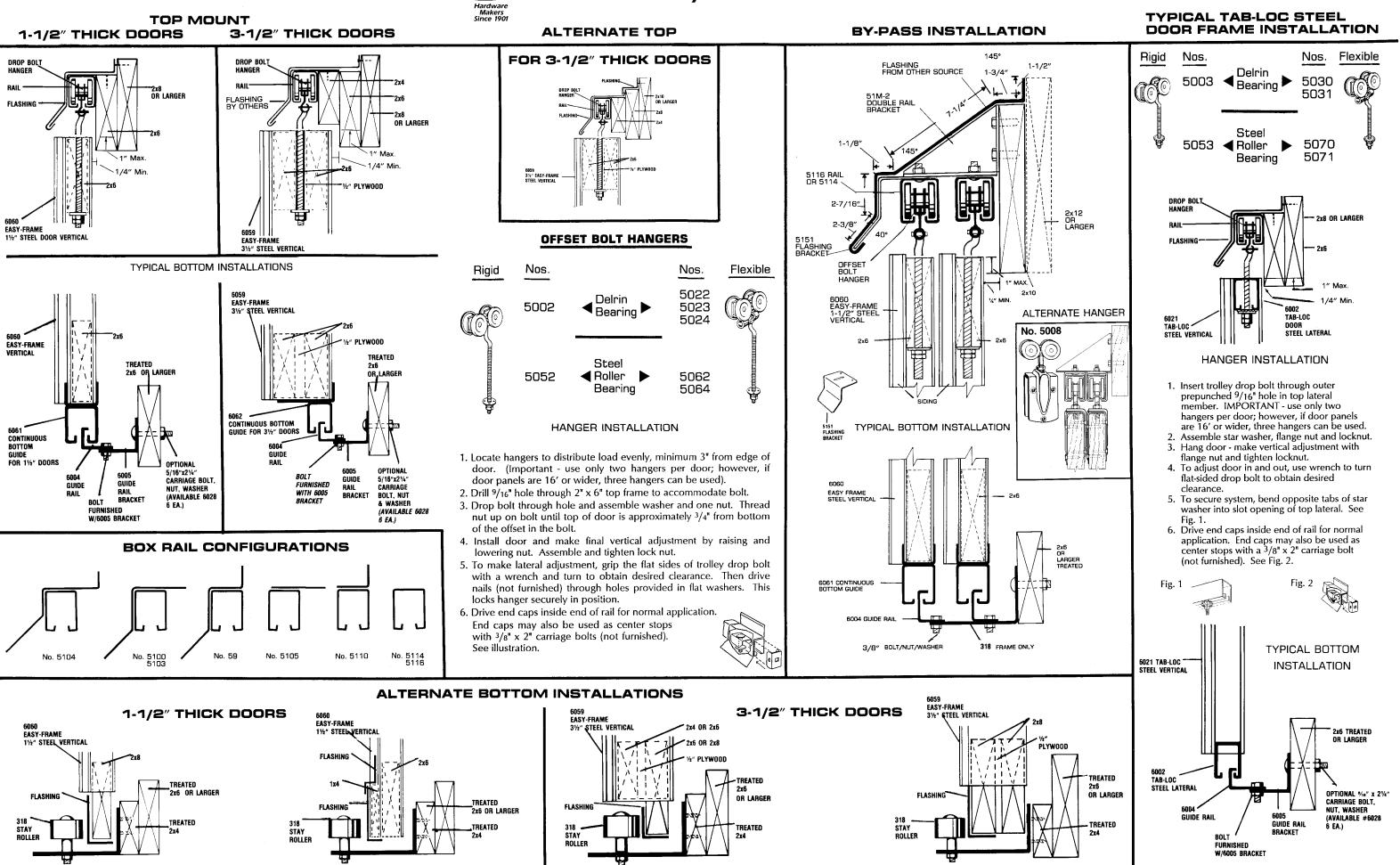
## BOX RAIL CHECKLIST

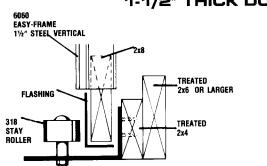
RAIL	HANGERS											
Plain Rail (6'-24') 5116 Plain Rail Hi-tensile 5114 Top Mount Rail with Flashing Brackets (8'-20') 5100 Trolley Rail Hi-tensile with Mounting/Flashing Brackets 5103 Trolley Rail with	Anddersign    Steel Roller Bearings      Delrin Bearings    Steel Roller Bearings      Rigid    Flexible      With Straight Bolt 5001    With Offset Bolts      Offset Bolt    5002      8-1/2"    5023      TAB-LOC    5003      8-1/2" with Lags    5023      TAB-LOC    5053      8-1/2" with Brackets    5064											
White Cover (8'-20')      5104        Top Mount Rail (8'-20')      5105        Face Mount Rail (8'-20')      5110        Covered Trolley Rail (6'-20')      59	B-1/2" with Brackets 5024 TAB-LOC 5030 TAB-LOC with Brackets 5031 With Door Strap With Door Straps											
RAIL/MOUNTING BRACKETS	With Door Straps  With Door Straps  Single  5080    Single  5005  Single  5087    Single  5040    Heavy Single  5006  Single											
Single Bracket  51F    Single Splice Bracket  51G    Single Bracket (Adj.)  51M    Single Splice Bracket (Adj.)  51MS    Rail End Cap  51ED	Double    Strap    Strap <t< td=""></t<>											
Double Bracket (Adj.)51M-2Double Splice Bracket (Adj.)51MS-2Rail Bracket Only51HBSplice Bracket Only51MSBWall Mount Double Bracket51HWall Mount Double Joint51H	FLASHING AND FLASHING BRACKETS    BOTTOM GUIDE      Flashing for Easy Mount Trolley Rail    Continuous Bottom Guide 6061, 6062      5100, 5103 and 5105 rail    10'    5120      51100 and 59 rail    10'    5122											
Splice Bracket (Adj.)    51HS      Wall Mount Triple Bracket (Adj.)    51K      Wall Mount Triple Joint    51KS      Splice Bracket    51KS      Ceiling Mount Single Bracket    51J	Flashing Bracket for 5120 Flashing  ACCESSORY HARDWARE    Pulls, Stops, Latches, etc.											
Ceiling Mount Single Joint Splice Bracket 51JS	For more information, see Sliding Door Systems Brochure, Form No. 1746											

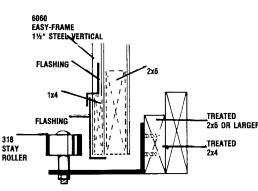
NATIONAL ALSO MANUFACTURES A FULL LINE OF ROUND RAIL AND HANGERS FOR SLIDING DOOR SYSTEMS.

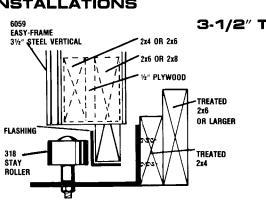


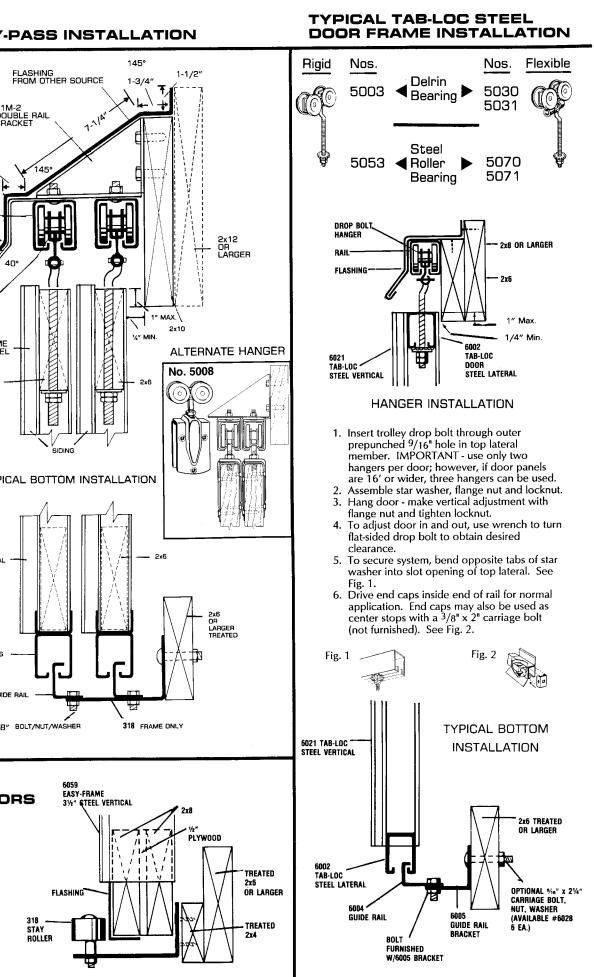
## **TYPICAL RAIL/HANGER INSTALLATIONS**



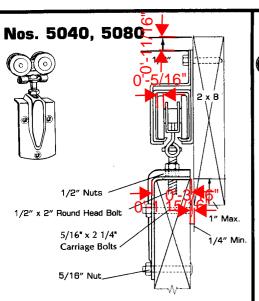


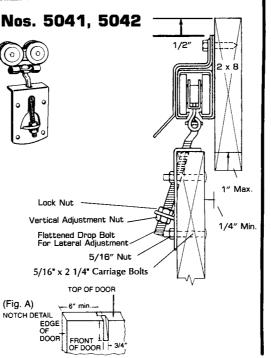


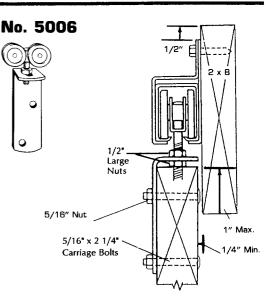


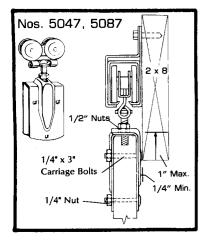


#### DOOR STRAP INSTALLATIONS









#### HANGER INSTALLATION

- 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.
  Hangers Nos. 5041, 5042 Only. Notch front of door for both hangers as shown in drawing (Fig. A).
  All Hangers (except No. 5008). Assemble hangers as shown and allocations of door. (Idea)
- 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 page.
- 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 5041 and 5042. When adjustments are complete, tighten lock nut securely 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.
- **8.** After door is hung, drive end caps into end of rail for normal applications. End caps may also be used as center stops with  $3/8" \times 2"$  carriage bolts (not furnished). See Figure at right.

## Nos. 5005, 5005B, 5055 2 x 8 1/2" Nut 1/2" Large Nut 5/16" x 2 1/4" **Carriage Bolts** 1/4″ Min 5/16" Nut-

## 16 Gauge Rail and Hangers

### Load Carrying Table (In pounds per door panel)

### **Delrin 500CL Bearing Hangers**

## **Steel Roller Bearing Hangers**

																				_	pa	tent M	10.4,64	42,844				
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			10601			1060	1062	5162	6015		1061	
L 59										450				450		450						450					450	
□ <sub>5100</sub>			450	450					450		450	450	450							450	450		450	450	450	450		
5103																		600		600	600		600	600	600	600		
5104			450	450					450			450				L				450	450		450		450			
5105			450	450	450	450			450			450					450			450	450	ļ	450		450			_
5110		450			450	450				450				450	450	450	450		450			450					450	L
[] 5114																L		600	600			600					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.