## NATIONAL <br> -

## BOX RAIL

 AND HANGER INSTRUCTIONS
## BOX RAIL CHECKLIST



## National

TYPICAL RAIL/HANGER INSTALLATIONS
ALTERNATE TOP


| FOR 3-1/2" THICK DOORS |
| :---: |
|  |  |
|  |  |

OFFSET BOLT HANGERS


hanger installation
. Locate hangers to distribute load evenly, minimum 3 " from edge of door. (Important - use only two hangers per door; how
door panels are 16' or wider, three hangers can be used).
door panels are $16^{\prime}$ or wider, three hangers can be used).
2. Drill $9 / 16^{\prime \prime}$ hole through $2^{\prime \prime} \times 6^{\prime \prime}$ top frame to accommodate bolt.
3. Drop bolt through hole and assemble washer and one nut. Thread

Drop bolt through hole and assemble washer and one nut. Thread
nut up on bolt until top of door is approximately $3 / 4^{n}$ from bottor of the offset in the bolt.
4. Install door and make final vertical adjustment by raising and
lowering nut. Assemble and tighten lock nut.

5. To make lateral adjustment, grip the flat sides of trolley drop bolt
with a wrench and turn to obtain desired clearance. Then drive with a wrench and turn to obtain desired clearance. Then drive
nails (not furnished) through holes provided in flat washers. Thi locks hanger securely in position.
. Drive end caps inside end of rail for normal application. End caps may also be used as center stops
with $3 / 8^{\prime \prime} \times 2^{n}$ carriage bolts (not furnished). with $3 / 8^{4 \prime} \times 2^{\prime \prime}$ ca
See illustration.

ALTERNATE BOTTOM INSTALLATIONS


TYPICAL TAB-LOC STEEL
DOOR FRAME INSTALLATION

BY-PASS INSTALLATION


hanger installation

1. Insert trolley drop bolt through outer Insert troley drop bolt through outer
prepunched $9 / 16^{6}$ hole in top lateral member. IMPORTANT - Lse only two
hangers per door; however, if door panels
 2. Assemble star washer, flange nut and locknut.
2. Hang door- - make vertical adjustment with
flange nut and tighten locknut.
3. To adjust door in and out, use wrench to turn
4. To ajjust door in and out, use wrench to
flat-sided drop bolt to obtain desired
clearance
Clearance.
5. To secure system, bend opposite tabs of star
washer into slot opening of top lateral. See
6. Friv. 1. Drive end capp inside end of rail for norma
application. End caps may also be used as
center stops with

Fig. 1




## 16 Gauge Rail and Hangers

 Load Carrying Table (In pounds per door panel) Delrin 500CL Bearing HangersSteel 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 |  |  | 1060 T |  |  | 1060 | 1062 | 5162 | 6015 |  | 1061 |  |
| 59 |  |  |  |  |  |  |  |  |  | 450 |  |  |  | 450 |  | 450 |  |  |  |  |  | 450 |  |  |  |  | 450 |  |
| 5100 |  |  | 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 |  |  |  |  |  |  |  | 450 | 450 |  | 450 |  | 450 |  |  |  |
| 5105 |  |  | 450 | 450 | 450 | 450 |  |  | 450 |  |  | 450 |  |  |  |  | 450 |  |  | 450 | 450 |  | 450 |  | 450 |  |  |  |
| 5110 |  | 450 |  |  | 450 | 450 |  |  |  | 450 |  |  |  | 450 | 450 | 450 | 450 |  | 450 |  |  | 450 |  |  |  |  | 450 |  |
| 5114 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 600 | 600 |  |  | 600 |  |  |  |  | 600 | 600 |
| [] 5116 | 450 | 450 |  |  | 450 | 450 | 450 | 450 |  |  |  |  |  | 450 | 450 | 450 | 450 |  | 450 |  |  | 450 |  |  |  |  | 450 |  |

Form No. 1775R

