02ASY

EQUipto

V-GRIP SHELVING
ASSEMBLY INSTRUCTIONS
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1. HEAVY DUTY SHELF INSTALLATION

a. CORNER REINFORCEMENT INSTALLATION

INSERT CORNER REINFORCEMENT INTO EACH OF 4 UPRIGHTS AT THE SAME LEVEL WITH LANCES POINTING UP, PRESS CORNER REINFORCEMENT DOWN UNTIL IT IS LOCKED IN PLACE.

b. HEAVY DUTY SHELF INSTALLATION

HEAVY DUTY SHELF

#6230 - 12" DEEP x 36" WIDE
#6231 - 18" DEEP x 36" WIDE
#6232 - 24" DEEP x 36" WIDE
#6234 - 36" DEEP x 36" WIDE
#6250 - 12" DEEP x 42" WIDE
#6251 - 18" DEEP x 42" WIDE
#6252 - 24" DEEP x 42" WIDE
#6240 - 12" DEEP x 48" WIDE
#6241 - 18" DEEP x 48" WIDE
#6242 - 24" DEEP x 48" WIDE

POSITION SHELF BETWEEN FOUR UPRIGHTS AND OVER CORNER REINFORCEMENTS. PUSH DOWNWARD ON EACH OF FOUR CORNERS OF SHELF TO SEAT PROPERLY.
2. REINFORCED HEAVY DUTY SHELF INSTALLATION

a. FRONT AND REAR REINFORCEMENTS (IF PURCHASED—'R' OPTION, E.G. 6232R)

REINFORCEMENT CHANNEL
(2 PER REINFORCED SHELF)
#10093 = 36” WIDE UNIT
#9952 = 42” WIDE UNIT
#10094 = 48” WIDE UNIT

REINFORCEMENT POSITION
INSIDE SHELF FLANGE

#13160 SCREW

SHELF

#13160 PHILLIPS HEAD SCREW
#10-24 X 3/8"
#13061 #10-24 KEP NUT
(3 PER REINFORCEMENT)

FULL SCALE

b. END REINFORCEMENTS (IF PURCHASED, NOT INCLUDED WITH REINFORCED SHELF)

END ANGLE REINFORCEMENT
(2 PER SHELF)
#9630 = 12” DEEP UNIT
#9631 = 18” DEEP UNIT
#9632 = 24” DEEP UNIT

REINFORCEMENT CHANNEL
(2 PER SHELF)
#10093 = 36” DEEP UNIT

SHELF

#13160 SCREW

NOTE: ON 36”D SHELVES, CENTER
REINFORCEMENT IS NOT TO BE USED
WITH #10093 REINFORCEMENT
CHANNEL THAT IS INSTALLED AS
END REINFORCEMENT.

#13160 PHILLIPS HEAD SCREW
#10-24 X 3/8"
#13061 #10-24 KEP NUT
(2 PER REINFORCEMENT)

FULL SCALE
c. CENTER REINFORCEMENT

(If purchased, not included with reinforced shelf)

CENTER REINFORCEMENT CHANNEL IS ROTATED INTO PLACE AS SHOWN. POSITION CHANNEL IN MIDDLE OF THE SHELF. NO HARDWARE IS NECESSARY FOR INSTALLATION.

#10051 = 36” WIDE
#10052 = 48” WIDE

B SHELVING TYPES AND INSTALLATION

1. OPEN TYPE SHELVING

a. END FRAME ASSEMBLY

<table>
<thead>
<tr>
<th>END BRACE PLATES REQ'D</th>
<th>HEIGHTS</th>
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<tbody>
<tr>
<td>2</td>
<td>5' THRU 9'</td>
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<tr>
<td>3</td>
<td>OVER 9' THRU 12'</td>
</tr>
<tr>
<td>4</td>
<td>OVER 12' THRU 16'</td>
</tr>
</tbody>
</table>

Insert brace plate between flanges of the uprights and fasten as shown. Make certain slots in both uprights are facing in the same direction before bolting. (See slot dwg below) Make two end frame assemblies. Tighten screws securely.

END BRACE PLATES (PAIRS):
6412 - 12”
6411 - 15”
6413 - 18”
6414 - 24”
6415 - 36”

#13160 PHILLIPS HEAD SCREW
#10-24 x 3/8”
#13061 #10-24 KEP NUT
(4 PER END BRACE)
b. BOTTOM SHELF INSTALLATION

START BUILDING THE UNIT BY INSTALLING THE FIRST SHELF AT THE BOTTOM OF TWO END FRAME ASSEMBLIES. SEE PAGES 3 THRU 5 FOR SHELF TYPES AND INSTALLATION. IF SHELF REINFORCEMENTS HAVE BEEN PURCHASED, FASTEN THEM IN THE SHELVES BEFORE INSTALLING SHELVES ONTO UPRIGHTS. IF NO BASE IS TO BE INSTALLED, THE BOTTOM SHELF WILL BE INSTALLED AT A HEIGHT OF 1-1/2”. IF BASE IS TO BE INSTALLED, SEE SECTION C-1.

UPRIGHTS:
- 5003-3’
- 5009-9’
- 5035-42”
- 5010-10’
- 5004-4’
- 5012-12’
- 5005-5’
- 5015-15’
- 5006-6’
- 5022-78”
- 5007-7’
- 5023-90”

NOTE: IF SEISMIC FLOOR ANCHORS HAVE BEEN PURCHASED, THEY MUST BE INSTALLED BEFORE ASSEMBLING SHELVES. SEE SECTION C-11e.

c. BACK SWAY BRACE INSTALLATION

HOOK TOP ENDS OF BRACE INTO SLOTS AT THE SAME LEVEL ON BOTH REAR UPRIGHTS. REPEAT THIS HOOKING PROCEDURE WITH THE BOTTOM ENDS OF BRACE. BRACES ARE REQUIRED WITH OPEN SHELVING TO PROVIDE SWAY STABILITY. SEE CHART FOR SLOT SPACING BETWEEN UPPER AND LOWER ENDS OF BRACE.
d. TOP SHELF INSTALLATION

NOTE: ON OPEN SHELVING, BACK SWAY BRACE IS INSTALLED BEFORE TOP SHELF.

POSITION TOP SHELF BETWEEN UPRIGHTS ON CORNER REINFORCEMENTS. PUSH DOWNWARD ON EACH OF FOUR CORNERS OF SHELF TO SEAT PROPERLY. COMPLETE UNIT ASSEMBLY BY INSTALLING REMAINING SHELVES.

e. DOUBLE ENTRY SHELF INSTALLATION

NOTE: DOUBLE ENTRY BEAMS PROVIDE AN ALTERNATIVE TO BACK SWAY BRACES ON OPEN SHELVING. WITH DOUBLE ENTRY BEAMS, SHELF CONTENTS CAN BE ACCESSED FROM BOTH SIDES OF SHELVING UNIT. WITH THE USE OF FLOOR ANCHORS, IT IS SUFFICIENT TO USE ONE PAIR OF DOUBLE ENTRY BEAMS JUST BELOW THE TOP SHELF. WITH NO FLOOR ANCHORS, AN ADDITIONAL SET OF BEAMS IS REQUIRED BENEATH A LOWER SHELF.

POSITION DOUBLE ENTRY BEAM INSIDE UPRIGHTS. PULL BEAM FORWARD UNTIL LANCING ON ENDS ENGAGES SLOTS IN UPRIGHTS. PUSH DOWNWARD AND SECURE CROSS BEAM IN PLACE WITH #13037 DART CLIP. INSTALL SHELF ON TOP OF TWO BEAMS.
f. BACK-TO-BACK ASSEMBLY

NOTE: BACK-TO-BACK OPEN SHELVING SHARES COMMON BACK SWAY BRACES.

ASSEMBLE BACK UNIT WITH END FRAMES, TOP AND BOTTOM SHELVES ONLY. STAND THIS PARTIALLY ASSEMBLED UNIT UP AGAINST THE REAR OF COMPLETED UNIT AND FASTEN THE UPRIGHTS TOGETHER, BACK-TO-BACK, WITH #10381 CLAMP AS SHOWN. INSTALL ONE CLAMP AT THE TOP AND BOTTOM OF EACH BACK-TO-BACK UPRIGHT. ASSEMBLE REMAINING SHELVES IN UNIT.

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g. END-TO-END ASSEMBLY (STARTER WITH ONE OR MORE ADD-ON UNITS)

TO ADD ADDITIONAL SHELVING UNITS IN A ROW, INSERT CORNER REINFORCEMENTS FOR THE BOTTOM SHELF ON THE OPPOSITE SIDE OF THE EXISTING SHELVING UPRIGHTS. ATTACH THE BOTTOM SHELF TO AN ADDITIONAL END FRAME ASSEMBLY. INSTALL SWAY BRACE ON 2ND UNIT, AND CONTINUE WITH SHELVING ASSEMBLY ON ADD-ON UNIT.

BACK SWAY BRACES ARE VERTICALLY STAGGERED ON ALTERNATE END-TO-END UNITS FOR ROW STABILITY.
2. CLOSED TYPE SHELVING

a. END FRAME ASSEMBLY

INSERT END PANELS BETWEEN FLANGES OF THE UPRIGHTS AS SHOWN. END PANELS WILL OVERLAP IN ORDER TO FIT THE HEIGHT OF THE UNIT. MAKE CERTAIN SLOTS IN BOTH UPRIGHTS ARE FACING IN THE SAME DIRECTION BEFORE BOLTING. (SEE SLOT DWG BELOW) MAKE TWO END FRAME ASSEMBLIES. DO NOT TIGHTEN BOLTS UNTIL EACH UNIT IS COMPLETELY ASSEMBLED.

NOTE: UPPER END PANEL SHOULD OVERLAP LOWER END PANEL AT ROW ENDS. SCREW HEADS SHOULD FACE AISLES.

#13160 PHILLIPS HEAD SCREW
#10–24 X 3/8"
#13061 #10–24 KEP NUT
(5 PER END PANEL)
(OVERLAPPING PANELS SHARE HARDWARE)

FULL SCALE

b. TOP AND BOTTOM SHELVES INSTALLATION

NOTE: ON CLOSED SHELVING, TOP SHELF IS INSTALLED BEFORE BACK PANELS.

START BUILDING THE UNIT BY INSTALLING THE FIRST SHELF AT THE BOTTOM OF TWO END FRAME ASSEMBLIES. SEE PAGES 3 THRU 5 FOR SHELF TYPES AND INSTALLATION. IF SHELF REINFORCEMENTS HAVE BEEN PURCHASED, FASTEN THEM IN THE SHELVES BEFORE INSTALLING SHELVES ONTO UPRIGHTS. IF NO FRONT BASE IS TO BE INSTALLED, THE BOTTOM SHELF WILL BE INSTALLED AT A HEIGHT OF 1–1/2". IF BASE IS TO BE INSTALLED, SEE SECTION C–1.

POSITION TOP SHELF BETWEEN UPRIGHTS ON CORNER REINFORCEMENTS. PUSH DOWNWARD ON EACH CORNER OF SHELF TO SEAT PROPERLY.

NOTE: IF SEISMIC FLOOR ANCHORS HAVE BEEN PURCHASED, THEY MUST BE INSTALLED BEFORE ASSEMBLING SHELVES. SEE SECTION C–11e.

<table>
<thead>
<tr>
<th>END PANELS</th>
<th>BACK PANELS</th>
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<tbody>
<tr>
<td>DEPTH</td>
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<tr>
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<td>36&quot;</td>
</tr>
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<td>12&quot;</td>
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<td>6796–4</td>
</tr>
<tr>
<td>12&quot;</td>
<td>6796–5</td>
</tr>
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</table>
c. BACK PANEL ASSEMBLY  (FOR SEISMIC INSTALLATION, SEE SECTION C–11a)

NOTE: IF TOP AND BOTTOM SHELVES ARE REINFORCED, DO NOT USE #13069 SCREW, USE SHELF REINFORCEMENT HARDWARE TO ATTACH BACK PANEL.

NOTE: IT IS SUGGESTED TO TIE THE MIDDLE OF OVERLAPPING BACK PANELS TO AN INTERMEDIATE SHELF WITH EITHER A 13160 SCREW (AS SHOWN) OR A 10332 BACK PANEL CLIP (SEE SECTION 2d)

INSTALL BACK PANELS WITH THE OFFSET TOWARD BACK OF UNIT AS SHOWN.

FASTEN BACK PANELS TO TOP AND BOTTOM SHELVES WITH SHEET METAL SCREWS. BACK PANELS WILL OVERLAP IN ORDER TO FIT THE HEIGHT OF THE UNIT. INSTALL THE 10388 BRACKETS AT THE SAME HEIGHT ON BOTH REAR UPRIGHTS IN THE FOLLOWING MANNER: ONE PAIR NEAR THE TOP OF THE UPRIGHTS, ONE PAIR AT THE CENTER OF EACH PANEL OVERLAP, AND ONE PAIR NEAR THE BOTTOM. INSERT DART CLIPS TO LOCK BRACKETS INTO UPRIGHTS. USE SCREWS TO FASTEN PANELS TO BRACKETS.

NOTE: IF THERE IS A LARGE OVERLAP OF BACK PANELS, IT MAY BE NECESSARY TO INSTALL (2) PAIRS OF BRACKETS AT OVERLAP.

#13139 PHILLIPS HEAD SCREW
#10–24 X 3/4”
#13061 #10–24 KEP NUT
(1 PER BRACKET)

#13069 BLUNT TAP SH MET SCREW
1/4”–14 X 3/8”
(3 PER SHELF, TOP AND BOTTOM ONLY)
d. INTERMEDIATE SHELVES INSTALLATION

#10332 BACK PANEL CLIP (OPTIONAL)

NOTE: BACK PANEL CLIPS HELP TO TIE THE INTERMEDIATE SHELVES TO THE BACK PANEL. THEIR USE IS SUGGESTED WHERE THE BACK OF THE CLOSED SHELVING IS EXPOSED TO THE ROOM OR TO AN AISLE.

POSITION ONE BACK PANEL CLIP ON THE BACK PANEL AT PREDETERMINED INTERMEDIATE SHELF LOCATIONS. COMPLETE THE UNIT BY INSERTING CORNER REINFORCEMENTS AND INSTALLING THE REMAINING SHELVES.

TIGHTEN ALL BOLTS SECURELY.

e. BACK-TO-BACK ASSEMBLY

BACK-TO-BACK CLOSED SHELVING SHARES COMMON BACK PANELS.

ASSEMBLE 2ND (OR "REAR") SHELVING UNIT WITH TWO END FRAMES, TOP AND BOTTOM SHELVES ONLY. STAND THIS PARTIALLY COMPLETED UNIT UP AGAINST REAR OF COMPLETED UNIT. INSTALL ONE PAIR OF #10388 BACK PANEL BRACKETS AT THE SAME VERTICAL LOCATION AS THE TOP BRACKETS OF THE "FRONT" UNIT. INSERT #13139 SCREW THROUGH BOTH BACK PANEL BRACKETS IN UNUSED HOLE, AND SECURE WITH #13061 NUT.

INSTALL AN ADDITIONAL PAIR OF #10388 BACK PANEL BRACKETS IN THE SAME MANNER FOR ANY ADDITIONAL BACK PANELS. FOR EXAMPLE, IF A 7'H UNIT HAS TWO PANELS, (2) PAIRS OF #10388 BRACKETS ARE INSTALLED ON THE "REAR" UNIT; IF AN 8'H UNIT HAS 3 PANELS, (3) PAIRS ARE INSTALLED.

TIGHTEN ALL HARDWARE SECURELY. INSTALL REMAINING SHELVES IN "BACK" UNIT.
OPTIONAL ACCESSORIES

NOTE: INSTALLATION OF OPTIONAL ACCESSORIES SUCH AS FRONT BASES, BIN FRONTS AND LABEL HOLDERS IN REINFORCED SHELVES MAY USE SAME HARDWARE. SOME DISASSEMBLY AND REASSEMBLY MAY BE REQUIRED.

1. FRONT BASE ASSEMBLY (ALSO REFERRED TO AS "KICK PLATE")

   FRONT BASE WIDTH   SHELF HEIGHT
   #6803       36"     3"
   #6804       36"     4-1/2"
   #010136     42"     3"
   #6807       42"     4-1/2"
   #6805       48"     3"
   #6706       48"     4-1/2"

   NOTE: FRONT BASE WILL DICTATE LOCATION OF BOTTOM SHELF. SEE CHART BELOW.

   ATTACH FRONT BASE TO BOTTOM SHELF (THAT HAS ALREADY BEEN INSTALLED AT BASE HEIGHT) USING TAP SCREWS PROVIDED.

   #13069 BLUNT TAP SH MET SCREW
   1/4"-14 X 3/8"  
   (3 PER BASE)

   FULL SCALE

2. BIN FRONT ASSEMBLY

   POSITION BIN FRONT INSIDE FRONT UPRIGHTS. PULL BIN FRONT FORWARD UNTIL LANCING ON ENDS ENGAGES SLOTS IN UPRIGHTS. PUSH DOWNWARD AND FASTEN TO FRONT FLANGE OF SHELF WITH #13160 SCREWS AS SHOWN.

   NOTE: BIN FRONTS MUST BE IN PLACE BEFORE STATIONARY DIVIDERS ARE INSTALLED. SLIDING DIVIDERS CANNOT BE USED WITH BIN FRONTS.

   #13160 PHILLIPS HEAD SCREW
   #10-24 X 3/8"

   #13061 #10-24 KEP NUT
   (3 PER BIN FRONT)

   FULL SCALE
3. DIVIDER ASSEMBLY

a. FULL HEIGHT DIVIDERS (STATIONARY DIVIDERS)

DIVIDERS ARE POSITIONED ON THE SHELF WITH ROUNDED BEAD POINTED TOWARD FRONT OF UNIT AS SHOWN. INSERT (2) #10266 PLASTIC RIVETS INTO THE FLANGE SLOTS AND GENTLY TAP STEM ALL THE WAY DOWN. FULL HEIGHT DIVIDERS MUST BE ATTACHED TO BOTH UPPER AND LOWER SHELVES. IF DIVIDERS ARE PLACED ABOVE ONE ANOTHER THEY SHARE COMMON RIVETS.

<table>
<thead>
<tr>
<th>DIVIDER</th>
<th>SHELF OPENING(IN)</th>
<th>ACTUAL HEIGHT(IN)</th>
<th>DEPTH(IN)</th>
<th>DIVIDER</th>
<th>SHELF OPENING(IN)</th>
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<td>13.438</td>
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NOTE: TO AVOID BREAKAGE, BE SURE TO GENTLY TAP FROM DIRECTLY ABOVE.

NOTE: ADDITIONAL DIVIDER SIZES MAY BE AVAILABLE; CONTACT EQUIPTO INSIDE SALES

b. SLIDING DIVIDERS

PLACE FRONT EDGE OF DIVIDER OVER FRONT FLANGE OF SHELF. LOWER REAR FLANGE OF DIVIDER OVER BACK OF SHELF.

#10226 PLASTIC DRIVE RIVET
(4 PER DIVIDER)

FULL SCALE
4. **HANGER BAR ASSEMBLY**

Hook lances of hanger bar end support bracket into slots on uprights and insert dart clip through square hole at each end to lock support in place. Repeat for opposite side of shelving. For open shelving, adjacent shelving units may share a common end support bracket.

Hook hanger bar bracket over top edge of end support and install stop clip. Insert end of hanger bar into bracket as shown. Slide second bracket onto opposite end of bar. Swing it into position, and hook bracket over top edge of opposite end support bracket. Install stop clip.

5. **LABEL HOLDER ASSEMBLY**

Attach label holder to front of shelves with 3 screws/nuts provided.

Note: Label materials not provided with label holder.

#13160 PHILLIPS HEAD SCREW
#10-24 x 3/8"
#13061 #10-24 KEP NUT
(3 per label holder)

#6615 1-1/8" HIGH x 34" WIDE
#6613 1-1/8" HIGH x 46" WIDE
6. FOOT PLATE INSTALLATION

This optional floor plate is inserted under each V-grip upright to provide extra protection for linoleum or fine wood floors.

#9826 FOOT PLATE

7. FLOOR ANCHOR INSTALLATION

Place left and right floor anchor brackets on each upright (one per upright). Engage lances in upright slots and push down to secure in place.

NOTE: Hardware for anchoring brackets to flooring is provided by others.

#7695L & 7695R ANCHOR BRACKET

8. SPLICER INSTALLATION

Insert splicer into top and bottom of stacked V-grip uprights to provide rigid support needed for hi-rise storage, or for upright heights that require 2-piece splicing. Use (4) #13134 screws and (4) #13061 KEP nuts to fasten splicer to uprights.

NOTE: 5568BS splicer is available for bulk rack with shelving applications.

#13134 PHILLIPS HEAD SCREW
#10-24 X 1/2"

#13061 #10-24 KEP NUT
(4 PER SPLICER)
9. UPRIGHT CAP AND LEVELER

INSTALL ONE PLASTIC CAP INTO THE END(S) OF EACH UPRIGHT.

TOP CAP

PLASTIC CAP
#10177 - WHITE
#10177B - BLACK
#10177WARMW - WARM WHITE

UPRIGHT

BOTTOM CAP

LEVELER CAP

LEVELER CAP

LEVELER BOLT
5/16" - 18 X 1-1/2"

LEVELER ASSEMBLY

#13147 LEVELER BOLT
#13149 LEVELER ASSEMBLY

10. SEPARATOR BARS

a. WALL SEPARATOR BAR (WALL-TIE)

#13037 DART CLIP

#7651 SEPARATOR BAR BRACKET

#11551 WALL SEPARATOR BAR

#13162 SCREW

V-GRIP UPRIGHT

NOTE: IF FLOOR ANCHORS ARE INSTALLED, ONE WALL-TIE ASSEMBLY AT THE TOP IS SUFFICIENT. WITHOUT FLOOR ANCHORS, AN ADDITIONAL WALL TIE ASSEMBLY SHOULD BE INSTALLED NEAR THE BOTTOM OF EACH UPRIGHT.

#11561 - SINGLE TIE
#11562 - SET OF TWO

b. UNIT SEPARATOR BAR (SPACER BETWEEN BACK-TO-BACK UNITS)

#13037 DART CLIP

#7651 SEPARATOR BAR BRACKET

V-GRIP UPRIGHT

#11555 - 6" SPACE SEPARATOR BAR

#13162 SCREW

V-GRIP UPRIGHT

NOTE: IF FLOOR ANCHORS ARE INSTALLED, ONE UNIT SEPARATOR ASSEMBLY AT THE TOP IS SUFFICIENT. WITHOUT FLOOR ANCHORS, AN ADDITIONAL UNIT SEPARATOR ASSEMBLY SHOULD BE INSTALLED NEAR THE BOTTOM OF EACH UPRIGHT.
11. SEISMIC ACCESSORIES

a. SEISMIC BACK PANEL INSTALLATION

(CLOSED SHELVING)

FASTEN BACK PANELS TO TOP AND BOTTOM SHELVES AS SHOWN ON PAGE 10. USE SEISMIC BRACKETS #190301L/R TO FASTEN PANELS TO THE UPRIGHTS. BRACKET MUST BE INSTALLED WITH LANCES UP (ORIENTATION B) WHEN USED TO BOLT THE BOTTOM BACK PANEL AND WITH LANCES DOWN (ORIENTATION A) FOR THE REST OF THE BACK PANEL LOCATIONS. INSERT DART CLIP TO FASTEN BRACKETS TO UPRIGHTS AS SHOWN ABOVE. ATTACH BRACKETS TO BACK PANELS USING (2) #13180 SCREWS AND #13060 NUTS.

NOTE: BACK-TO-BACK SHELVING WILL SHARE COMMON BACK PANELS. ADDITIONAL 190301L/R BRACKETS ARE INSTALLED AT THE SAME VERTICAL LOCATIONS ON THE "REAR" SHELVING UNITS (A ONE-TO-ONE MATCH UP OF BRACKETS) TO TIE THE TWO UNITS TOGETHER. IF PROVIDED, SUBSTITUTE #13163 SCREWS (1") FOR BACK-TO-BACK ASSEMBLY.

NOTE: UPPER BACK PANELS SHOULD OVERLAP LOWER BACK PANELS ON EXPOSED BACK OF UNIT.

#13180 PHILLIPS HEAD SCREW
1/4"-20 X 3/4"

#13060 1/4"-20 KEP NUT
(2 PER BRACKET)
b. SHELF LOCKING CLIP INSTALLATION

FIG. 1
INSERT BOTTOM TAB OF CLIP INTO THE SPACE LEFT BETWEEN SHELF AND UPRIGHT SLOT. INSERT TOP TAB OF CLIP INTO THE NEXT SLOT ABOVE THE SHELF.

FIG. 2

FIG. 3
FINAL POSITION OF THE CLIP AFTER BENDING.

NOTE: IT IS RECOMMENDED TO INSTALL ONE SET (4 PER SHELF) FOR BOTTOM SHELF, ONE SET FOR SECOND SHELF FROM THE TOP AND ONE SET FOR AN INTERMEDIATE SHELF NEAR THE SEISMIC BRACKET.

c. SEISMIC END SWAY BRACE INSTALLATION

(OPEN SHELVING, IN LIEU OF END BRACE PLATES)

INSERT TWO END SWAY BRACES BETWEEN FLANGES OF THE UPRIGHTS AND FASTEN AS SHOWN. MAKE CERTAIN SLOTS IN BOTH UPRIGHTS ARE FACING IN THE SAME DIRECTION BEFORE BOLTING. (SEE SLOT DWG BELOW).

TIGHTEN ALL SCREWS SECURELY.

NOTE: REFER TO SECTIONS B-1a AND B-1c FOR BRACE QUANTITIES BASED ON HEIGHT.

#13162 PHILLIPS HEAD SCREW
1/4"—20 X 1/2"

#13060 1/4"—20 KEP NUT
(F5 PER PAIR OF END BRACES)

FULL SCALE
d. SEISMIC BACK SWAY BRACE INSTALLATION (OPEN SHELVING)

ORIENTATION "A" INSTALLATION

ORIENTATION "B" INSTALLATION

NOTE: PLAN SHELF LOCATIONS BEFORE CHOOSING SLOTS TO MOUNT BRACES, AS SHELF CORNER REINFORCEMENTS AND BRACKETS CANNOT SHARE V-GRIFF SLOTS.

#13037 DART CLIP

#190301L/R BRACKET (LANCES DOWN)

BACK SWAY BRACE

SWAY WIDTH SLOT SPACING
#190302P 36" 18
#190308P 42" 20
#190303P 48" 25
#190309P 96" 29

INSERT DART CLIP (FLANGES HORIZONTAL) AFTER BRACKET IS PUSHED INTO PLACE.

HOOK TWO #190301L/R BRACKETS WHERE THE TOP OF BRACES ARE TO BE INSTALLED AS SHOWN IN ORIENTATION "A" INSTALLATION.
HOOK TWO #190301L/R BRACKETS WHERE THE BOTTOM OF BRACES ARE TO BE INSTALLED AS SHOWN IN ORIENTATION "B" INSTALLATION.
INSERT V-GRIFF DART CLIPS AS SHOWN.
BOLT BACK BRACES TO THE BRACKETS WITH #13180 SCREWS AS SHOWN BELOW. COMPLETE INSTALLATION BY TIGHTENING BRACES TOGETHER IN THE CENTER WITH #13162 SCREW AND NUT.

NOTE: BACK-TO-BACK SHELVING SHARES COMMON BACK SWAY BRACES.

END FRAME ASSEMBLY

#13180 PHILLIPS HEAD SCREW
1/4"-20 X 3/4"
(4 PER PAIR OF BACK BRACES)

#13162 PHILLIPS HEAD SCREW
1/4"-20 X 1/2"
(1 PER PAIR OF BACK BRACES)

#13060 1/4"-20 KEP NUT

FULL SCALE

ADDITIONAL 190301L/R BRACKETS ARE INSTALLED AT THE SAME VERTICAL LOCATIONS ON THE "REAR" SHELVING UNITS (A ONE-TO-ONE MATCH UP OF BRACKETS), AND ADDITIONAL SETS OF HARDWARE ARE USED TO TIE THE TWO SETS OF BRACKETS TOGETHER. IF PROVIDED, USE #13163 SCREW (1") FOR BACK-TO-BACK ASSEMBLY.
e. SEISMIC FLOOR ANCHOR INSTALLATION

SEISMIC FLOOR ANCHORS SHOULD BE ASSEMBLED TO END FRAME BEFORE BUILDING SHELVING UNITS. DO NOT FULLY TIGHTEN SCREWS IN FLOOR ANCHORS UNTIL UNITS ARE STANDING.

#190317A FLOOR ANCHOR ASSEMBLY

#190319A LH CORNER FLOOR ANCHOR ASSEMBLY (SHOWN)

#190320A RH CORNER FLOOR ANCHOR ASSEMBLY

#13160 SCREW

NOTE: HARDWARE TO ANCHOR BRACKET TO FLOOR SURFACE IS PROVIDED BY OTHERS. TO ALLOW FOR TOOL ACCESS TO ATTACH ANCHORS TO FLOOR, IT MAY BE EASIER TO ASSEMBLE SHELVING UNITS WITH NO BOTTOM SHELF UNTIL ANCHORS ARE SECURE.

#13160 PHILLIPS HEAD SCREW
#10-24 X 3/8"

#13061 #10-24 KEP NUT
(2 PER ANCHOR)