41112ASY

EQUIPTO

GENERATION IV
MEZZANINE
ASSEMBLY
INSTRUCTIONS
### Mezzanine Sizes

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### Catalog Numbers

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**Note:** For flooring add suffix, PG=Perforated Grating, SG=Solid Grating, BG=Bar Grating, TD=TuffDeck.

**General Assembly Instructions**

1. Check to determine which size mezzanine(s) you received in chart above. Check and get familiar with your installation drawing and with these assembly instructions before starting.
2. Begin assembly by constructing post configurations. Consult your installation drawing to determine what post configurations you need, and how many of each. (See page 4)
3. Assemble the outer frame of your entire mezzanine using the required posts and beams. NOTE: Do not anchor posts to floor until specified. (See pages 6 thru 9)
4. Install all diagonal braces on exterior corners of framework. (See page 10)
5. Install all beam brackets and internal beams to finish the outer frame and floor support structure. (See pages 11 thru 13) NOTE: If using overhang brackets see pages 14 and 15.
6. Plum and square all the post at this time. Tighten all hardware on framework, then anchor the posts to the floor. NOTE: Floor anchors to be furnished by others.
7. Assemble stairway and fasten in place on mezzanine framework. (See page 16)
8. Install flooring on entire mezzanine framing. (See either page 17, 18, 19, or 20)
9. Install all railing, kickplates, and dropgates where required. (See page 21)
10. Check entire mezzanine to be sure all hardware is tightened.
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<td>#13102</td>
<td>SPRING LOCKWASHER 5/8”</td>
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<td>KEPS SHAKEPROOF NUT #10</td>
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<td>#13011</td>
<td>NYLON SHOULDER WASHER 1/4”</td>
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<td>#13042</td>
<td>COTTER PIN 1/8” x 1 1/2”</td>
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POST CONFIGURATIONS

SINGLE POST  SQUARE POST

BI–POST
5/8” x 1 1/2” HEX HEAD BOLT (13101), LOCKWASHER (#13102) HEX NUT (#13103).
(2 EA. PER BI–POST REQ’D)

TRI–POST
5/8” x 1 1/2” HEX HEAD BOLT (13101), LOCKWASHER (#13102) HEX NUT (#13103).
(4 EA. PER TRI–POST REQ’D)

QUAD–POST
5/8” x 1 1/2” HEX HEAD BOLT (13101), LOCKWASHER (#13102) HEX NUT (#13103).
(8 EA. PER QUAD–POST REQ’D)

SAMPLE FLOOR PLAN

POST #5208
4” x 8’–0”
(2 PER BI–POST)

5/8” HEX HEAD BOLT (#31101, LOCKWASHER, (#13102) AND NUT (#13103).

BI–POST ASSEMBLY

POSTS
8’–0” HIGH = #5208
9’–0” HIGH = #5209
10’–0” HIGH = #5210
12’–0” HIGH = #5212

OPTIONAL SQUARE POSTS
8’–0” HIGH = #5218
9’–0” HIGH = #5219
10’–0” HIGH = #5220
12’–0” HIGH = #5222

NOTE:
DO NOT TIGHTEN HARDWARE ON POST ASSEMBLIES AT THIS TIME.
IF YOU ARE REQUIRED TO FIELD CUT A POST AND USE EITHER A POST EXTENSION (#9510) OR A POST BASE (#7724) AS A FOOTPLATE CONTINUE TO PAGE 5. IF NOT SKIP TO PAGE 6.
OPTIONAL POST EXTENSIONS AND FIELD MODIFIED POST

NOTE: IF YOU ARE NOT INSTALLING EITHER #9510 POST EXTENSION OR #7724 POST BASE AS A FOOTPLATE SKIP TO PAGE 6.

POST
8' - 0" HIGH = #5208LF
9' - 0" HIGH = #5209LF
10' - 0" HIGH = #5210LF
12' - 0" HIGH = #5212LF

THESE POST ARE LESS FOOTPLATES. (Bottom of post shown)

POST EXTENSION ASSEMBLY
1. Insert Post Extension into the bottom of a post that is less footplate.
2. Determine the height desired and fasten together using specified hardware. (2 on each side)

NOTE: Mezzanine Post may be extended up 24" in additional height on 2" increments.

WARNING
Before attempting to use Post Extensions on 16' and 20' span mezzanines, consult your local EQUIPTO sales representative.

FOOTPLATE ASSEMBLY
1. Cut Post to appropriate length, allowing for the 3/8" thick bolt on base.
2. Redrill two 11/16" diameter holes, one on each side, 1 1/4" from the bottom and 2" from the corner of the post as shown.
3. Rework the bottom web plate to 2 3/4" from the bottom of the post as shown.
4. Insert the bolt on base into the bottom of the post and fasten together with specified hardware. (2 per post base)

FIELD MODIFIED POST

FOOTPLATE ASSEMBLY
MEZZANINE BEAM SIZES

Beam lengths are nominal – actual lengths are 8 3/4" less than the nominal.

Sample Floor Plan

EXTERNAL FRAME ASSEMBLY INSTRUCTIONS

Note: Hand tighten all hardware at this time.
Refer to your installation drawing or pages 7 and 8 to determine which beams and post assemblies to use. See page 9 for details of these instructions.

1. Bolt the ends of one beam to the bolting plates of two posts or post assemblies.
   Note: Position bolt heads to the inside of beam where another mezzanine bay is to be added or if you are using overhang brackets on that side.
2. Repeat Step 1 with opposite side posts and beam.
3. Stand up the two assemblies from steps 1 and 2 with the beams at the top.
   Fasten the ends of the two required beams to the two assemblies at the bolting plates.
4. If adding on another mezzanine bay remove the nuts and washer from the bolts on the first bay. Then position the external beam of the next bay over the bolts and replace the washers and nuts.
5. Repeat Step 1 for the second bay. Stand that assembly up and position the two other external beams into place as in Step 3.
6. Continue assembling External Frame until it is complete.
7. Fasten two tubular braces at each outer corner of the completed External Frame or where noted on your installation drawing (see page 10).
8. It would be beneficial at this time to plum and square the mezzanine posts and beams.
50-1ASY
BEAM SPLICE ASSEMBLY
INSTRUCTIONS

(1) SLIDE CENTER BEAM INTO PLACE AS SHOWN ON PAGE 2. (NOTE: CENTER BEAM TELESCOPES INTO LEFT AND RIGHT BEAMS SHOWN.)

(2) WHEN HOLES IN THE CENTER BEAM ARE ALIGNED WITH THE HOLES IN THE LEFT AND RIGHT BEAMS, ATTACH THE (#13101) AND (#991809H) HEX HEAD BOLTS, WASHERS (#13102) AND HEX NUTS (#13103) AND TIGHTEN.

(3) 20-2" LONG (991809H) BOLTS HAVE BEEN FURNISHED FOR FACE TO FACE INSTALLATION. BALANCE OF BOLTS ARE 1-1/2" LONG (#13101)

#991809H 5/8" x 2" HEX HEAD BOLT

#13101
5/8" x 1-1/2" HEX HEAD BOLT

#13103
5/8" HEX NUT

#13102
5/8" SPRING LOCKWASHER
PART SHOWN WITH BOLTS (13101) AND (991809H), WASHERS (13102), AND NUTS (13103) IN PLACE.
(4 BOLTS INSERTED FROM THIS SIDE).

NOTE:
THESE 20 BOLTS TO BE 2" LONG (991809H).

BOTTOM VIEW SHOWING 2 BOLTS (13101) INSERTED FROM UNDERSIDE.

22 BOLTS INSERTED FROM THIS SIDE.
FRAMING AND FLOOR SUPPORT LAYOUTS
4' CENTERS

LENGTH

16" x 20'
BEAM #9999

14" x 16'
BEAM #9998

11 1/4" x 12'
BEAM #9997

11 1/4" x 10'
BEAM #9996

11 1/4" x 8'
BEAM #9995

WIDTH

8 1/2" x 4'
BEAM #9963

8 1/2" x 6'
BEAM #9964

8 1/2" x 8'
BEAM #9965

8 1/2" x 10'
BEAM #9966
5/8" x 1 1/2" HEX HEAD BOLT (13101), LOCKWASHER (13102), AND HEX NUT (13103). (2 EA. PER END, EXCEPT 3 EA. PER END ON 14", AND 16" HIGH BEAMS)
# TUBULAR BRACE ASSEMBLY

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<td>28 15/32” c.c.</td>
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<td>#6423</td>
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<td>12’</td>
<td>#6424</td>
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<td>75 7/32” c.c.</td>
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**MEZZANINE POST**

#5208
4” x 8′-0”

**TUBULAR BRACE**

#6422

**11 1/4” HIGH BEAM**

**5/8” x 1 1/2” HEX HEAD BOLT (13101), LOCK WASHER (13102), AND HEX NUT (13103). (2 EA. PER BRACE)**
INTERNAL FLOOR SUPPORT STRUCTURE

1. Consult your installation drawing or pages 7 and 8 and your order to determine what beam configuration you have. Beams may be installed on 2’ centers or on 4’ centers. 
   **NOTE:** If you are using extension brackets #9970 or #9971 see pages 14 and 15 before proceeding to insure proper beam configuration.

2. Install all of the beam brackets in their proper positions depending on the beam centers. If you have mezzanines which are back to back install both sets of beam brackets at the same time. (SEE PAGES 11 AND 12)

3. Bolt the ends of the internal beams to the beam brackets. Install in pairs if your beams are on 4’ centers. (SEE PAGE 12) Install only one beam if your beams are on 2’ centers. For beams on 2’ centers locate the position of the floor support angles. Install them where the ends of two pieces of tuffdeck meet. (SEE PAGE 13)

4. On internal beam pairs that are longer than 4’ they must be bolted back to back. (SEE PAGE 12) On 16’ and 20’ span mezzanines that are 6’, 8’, and 10’ wide you must install cross braces on top of the internal beams. (Not required if beams are on 2’ centers — SEE PAGE 13)

5. Plum and square all the post and beams at this time. Tighten all hardware on framework, then anchor the post to the floor. **NOTE:** Floor anchors to be furnished by others.

**WARNING:** FAILURE TO ANCHOR ALL POSTS TO THE FLOOR WILL RESULT IN AN UNSAFE MEZZANINE.

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**FLOOR SUPPORT LAYOUT BEAMS ON 4’ CENTERS**

**BEAM BRACKETS**

**11 1/4” HIGH BEAM**

(#7664 are also used on 8 1/2” high beams)

**BEAM BRACKET #7664**

5 11/16” x 8” (2 per location)

**14” HIGH BEAM**

(#7665L/R are also used on 16” high beams)

**BEAM BRACKET #7665L/R**

5 11/16” x 8” (2 per location)

**5/8” x 1 1/2” HEX HEAD BOLT, LOCKWASER, AND HEX NUT.**

(2 per #7664 and 3 per #7665L/R)

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PAGE 11
BACK TO BACK BEAMS

11 1/4" HIGH BEAM
(2 BEAMS BACK TO BACK)

5/8"x 1 1/2" HEX HEAD BOLT (13101), LOCKWASER (13102), AND HEX NUT (13103), (4 EA. PER LOCATION)

INTERNAL BEAMS ON 4' CENTERS

BEAM BRACKET
#7664
5 11/16" x 8"
(4 PER LOCATION BACK TO BACK)

11 1/4" HIGH BEAM

INTERNAL BEAMS BOLTED BACK TO BACK

5/8"x 1-1/2" HEX HEAD BOLT (13101), LOCKWASER (13102), AND HEX NUT (13103), (2 EA. PER END)

3/8"x 3/4" HEX HEAD BOLT (13188), LOCKWASER (13182), AND HEX NUT (13191), (2 EA. PER PAIR OF 6', OR 8' BEAMS, 4 EA. PER PAIR OF 10' BEAMS)

8 1/2" HIGH BEAM
(2 BEAMS BACK TO BACK)
**INTERNAL BEAMS ON 2’ CENTERS**

- 11 1/4” HIGH BEAM
- 5/8” x 1 1/2” HEX HEAD BOLT (13101), LOCKWASER (13102), HEX NUT (13103). (2 EA. PER END)
- 8 1/2” HIGH BEAM (1 BEAM PER LOCATION)
- BEAM BRACKET #7664 (2 PER LOCATION)
- FLOOR SUPPORT ANGLES ARE TO BE LOCATED AT THE ENDS OF TWO PIECES OF TUFFDECK.

**FLOOR SUPPORT ANGLES**

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<th>FLOOR SUPPORT SIZE</th>
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<td>#9672</td>
<td>2 3/4” x 35 1/4”</td>
<td>4’</td>
</tr>
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<td>#9673</td>
<td>2 3/4” x 59 1/4”</td>
<td>6’</td>
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<td>#9674</td>
<td>2 3/4” x 83 1/4”</td>
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<tr>
<td>#9675</td>
<td>2 3/4” x 107 1/4”</td>
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**CROSS BRACES ON 16’ AND 20’ SPAN MEZZANINES**

Not required if using Tuffdeck or Roofdeck and Tuffdeck as flooring.

**NOTE:**
- Braces required on 16’ and 20’ span mezzanines only.
- Use 5/16” x 5/8” hex head bolt (13152) and nut (13051).
- (2 ea. per brace)
- Braces are to be placed on top of internal beams.

**CROSS BRACE #6442**

15/16” x 75 15/16” c.c.
OVERHANG BRACKET ASSEMBLY

NOTE: IF YOU ARE NOT INSTALLING OVERHANG BRACKETS SKIP TO PAGE 16.

1. Another external beam is needed for support when using overhang brackets. Consult your installation drawing to determine what size external beam you need and install it using the hardware that is already in place.

2. Install all of the beam brackets (see pages 11 thru 13) and overhang brackets in their proper positions depending on the beam centers. Be sure to install a pair of beam brackets opposite each overhang bracket. NOTE: If using overhang brackets on 14” and 16” high beams one overhang bracket #9970 is required at each end of the beam. Overhang bracket #9971 is to be used in the rest of the locations along these beams.

3. Install the internal beams (see pages 11 thru 13). If your overhang brackets are perpendicular to your internal beams you must install extra supports parallel to the overhang brackets.

4. On the first internal beam near the overhang brackets install beam brackets in line with each overhang bracket. Then install one internal beam in between these beam brackets in line with the overhang brackets.

5. Plumb and square all the post and beams at this time. Tighten all hardware on framework, then anchor the post to the floor. NOTE: Floor anchors to be furnished by others.
OVERHANG BRACKET ON 16” AND 14” HIGH BEAMS

NOTE:
#7718 SHIM PLATE NEEDED FOR OVERHANG BRACKETS. ONE (1) AT POST LOCATIONS AND TWO (2) AT ALL OTHER LOCATIONS.

5/8”x 1 1/2” HEX HEAD BOLT (13101), LOCK WASHER (131102), AND HEX NUT (13103). (4 EA. PER LOCATION)

OVERHANG BRACKET #9970 6” x 24”

ADDED EXTERNAL BEAM

5/8”x 1 1/2” HEX HEAD BOLT (13101), LOCK WASHER (131102), HEX NUT (13103). (8 EA. PER LOCATION)

BEAM BRACKETS #7665L/R (1 EA. PER LOCATION)

ADDED INTERNAL BEAMS

BEAM BRACKET #7664 (2 PER LOCATION)

EXTERNAL FRAME ASSEMBLY

ADDED BEAMS PARALLEL WITH OVERHANG BRACKETS.

ADDED EXTERNAL BEAM

5/8”x 1 1/2” HEX HEAD BOLT (13101), LOCK WASHER (131102) HEX NUT (13103). (2 EA. PER END)

OVERHANG BRACKET #9970 6” x 24”

EXTERNAL FRAME ASSEMBLY

INTERNAL BEAMS PERPENDICULAR WITH OVERHANG BRACKETS.
INSTRUCTIONS

1. Determine where stairway is to be located in framing layout. All beams are punched for stairways.
2. Bolt #9556L/R top mounting angles to the beam where the stairs are to be located. (Mounting angles can be found in the stairway pack)
3. Assemble the stairway complete and install. See stairway instruction sheet #41334 or #41466.
4. Cover Plate #7717 is to be used when a stairway is mounted at the end of grating panels. It may be installed either before or after the grating is installed.

NOTE: STAIRWAY MAY BE PLACE IN A NUMBER OF LOCATIONS AT THE ENDS OF THE BEAMS. CHECK YOUR INSTALLATION DRAWING FOR YOUR STAIRWAY LOCATION.

3/8” x 3/4” HEX HEAD BOLT (13188), LOCKWASHER (13182) AND HEX NUT (18191). (2 EA. PER BRACKET)

L.H. TOP MOUNTING ANGLE (#9556L)
MEZZANINE POST

11 1/4” HIGH BEAM

R.H. TOP MOUNTING ANGLE (#9556R)

NOTE: USE COVER PLATE #7717 ONLY WHEN STAIRWAY IS MOUNTED AT THE END OF THE GRATING PANELS.

3/8” x 3/4” HEX HEAD BOLT (13188), LOCKWASHER (13182), AND HEX NUT (13191). (3 EA. PER PLATE)

COVER PLATE #7717

USE TOP HOLES WHEN USING SOLID OR PERFORATED GRATING OR BAR GRATING AS FLOORING.

USE BOTTOM HOLES WHEN TUFFDECK IS TO BE USED AS FLOORING.
NOTE:
USE THIS ASSEMBLY AS SPECIFIED IN YOUR MEZZANINE LAYOUT.

5/8" x 1 1/2" HEX HEAD BOLT (13101), LOCK WASHER (13102), HEX NUT (13103).
(6 EA. PER BEAM ANGLE)

11 1/4" HIGH BEAM
8 1/2" HIGH BEAM

FLOORING: PERFORATED AND SOLID GRATING

INSTRUCTIONS
NOTE: ALL GRATING PANELS ARE TO BE INSTALLED PERPENDICULAR TO THE INTERNAL BEAMS.
1. Fasten an angle clip #9520 inside the top of all the posts. Be sure the clips are positioned parallel with the direction of the grating panels.
2. Beginning on an outer edge of the mezzanine framework, position grating panel and bolt the ends to the top of the prepunched beam and the angle clip in the corners. After all the panels are in place tighten all hardware.

5/16" x 5/8" HEX HEAD BOLT, (13152, AND HEX NUT (13051).
(4 EA. PER PANEL)

5/8" x 1 1/2" HEX HEAD BOLT (13101), LOCK WASHER, (13102) AND HEX NUT (13103).
(1 EA. PER CLIP)

MEZZANINE POST
MEZZANINE POST

PAGE 17
**FLOORING: BAR GRATING**

**INSTRUCTIONS**

**NOTE:** ALL BAR GRATING PANELS ARE TO BE INSTALLED WITH THE BARS PERPENDICULAR WITH THE INTERNAL BEAMS.

1. Beginning on an outer edge of the mezzanine framework, position the bar grating panels until all the bar grating is in place. Make sure the bar grating is not overhanging the mezzanine.

2. Using grating saddle clips (-----) and tek screws (13115) fasten down the panels. Space the saddle clips evenly on each panel to insure a good hold.

**1 1/2" LONG TEK SCREW (13115) AND SADDLE CLIPS (-----) (6 EA. PER PANEL)**

SCREW THE TEK SCREW DIRECTLY INTO THE BEAMS. AVOIDING ANY HOLES.
FLOORING: TUFFDECK

INSTRUCTIONS

NOTE: BEAMS MUST BE ON 2' CENTERS WHEN USING TUFFDECK AS FLOORING.
ALL TUFFDECK PANELS ARE TO BE INSTALLED WITH THE TONGUE AND GROOVE EDGES PERPENDICULAR WITH THE INTERNAL BEAMS.

1. Beginning on an outer edge of the mezzanine framework, position the tuffdeck panels, until all the tuffdeck is in place. Make sure the tuffdeck is not overhanging the mezzanine and the tongue and grooves are tight together.

2. Using tap screws fasten down the panels. Three tap screws for each beam supporting a 4' x 8' panel (15 per panel, see detail).

NOTE: GRAY TEXTURED SIDE GOES UP.

2" LONG TAP SCREW (#13116) FOR 3/4" THICK OR 2-1/2" LONG TAP SCREW (#13117) FOR 1-1/8" THICK PANEL.

DRILL TAP SCREW DIRECTLY INTO TUFFDECK AND BEAMS.

SUGGESTED FASTENING PATTERN FOR TUFFDECK PANEL #10218 OR #10217 4' X 8' PANEL. 15 TAP SCREWS.
INSTRUCTIONS

NOTE: ALL ROOF DECK PANELS ARE TO BE INSTALLED PERPENDICULAR WITH THE INTERNAL SUPPORTS.

1. Beginning on an outer edge of the mezzanine framework position a roof deck panel. Fasten down outer edge before placing next panel. Place next panel on framework over lapping the previous panel. Fasten in place at overlap. Continue until all the roof deck is in place. Make sure the roof deck is not overhanging the mezzanine framework.

2. Using tap screws fasten down the panels every 12” on each beam.

3. Once the roof deck is secured beginning on an outer edge of the mezzanine framework position the tuffdeck panels with the tongue and groove edges perpendicular to the roof deck until all the tuffdeck is in place. Make sure the tuffdeck is not overhanging the mezzanine and the tongue and grooves are tight together. Using bugle head tap screws fasten down the panels to the roof deck. Three screws across, every 2’ along a 4’ X 8’ panel (SEE DETAIL).

4. HEX WASHER HEAD TEK SCREW (13115) #12 x 3/4” (1 EVERY 12” EA. BEAM)

SUGGESTED FASTENING PATTERN FOR TUFFDECK PANEL #10218 OR #10217 4’X8’ PANEL. 15 BUGLE HEAD TAP SCREWS.
MEZZANINE RAILING SYSTEM

ASSEMBLY INSTRUCTIONS

NOTE: DO NOT TIGHTEN HARDWARE ON RAILING UNTIL SPECIFIED.

1. Fasten the railing posts to the mezzanine framework in their appropriate positions. (SEE PAGE 22)
2. Insert top post caps into the railing post and bolt in place. Where posts are side by side, bolt caps at the center with a common bolt and nut. Tighten all the post cap hardware at this time. (SEE PAGE 23)
3. Insert railing brackets in the ends of the railing channels. Position the flanges on the brackets to the side of the railing channel which has a gap in it. Bolt bracket into place. (SEE PAGE 23)
4. With the flanges pointing downward, position the railing channel assemblies between the railing posts in their proper locations and bolt into place. (SEE PAGE 24)
5. Fasten the kickplate end angles to railing post. (SEE PAGE 25)
6. Position the kickplates, with the flanges turned to the outside of mezzanine and bolt to the kickplate end angles. For kickplates 8’ or longer bolt 2 kickplate angle clips along the bottom flange of the kickplate and to the external beam. Evenly place the angle clips for uniform support along the kickplate. (SEE PAGES 25 AND 26)
7. All the outer corner posts are to be held together with a post corner angle. Bolt the angle in place near the top of the posts. (SEE PAGE 26) Tighten all hardware.

RAILING LAYOUT
RAILING POST MOUNTED ON MEZZANINE POST

NOTE: GRATING AND BEAM REMOVED FOR CLARITY.

8 1/2" HIGH BEAM ON EXTERNAL BEAM

BOLTING CHANNEL
#10026
(2 PER RAILING POST)

5/8" x 1 1/2" HEX HEAD BOLT, LOCKWASHER, AND HEX NUT. (2 PER RAILING POST, 4 PER INSIDE RAILING POST)

FLOORING
(1 1/2" GRATING SHOWN)

INSIDE CORNER RAILING POST
#12422

NOTE: GRATING REMOVED FOR CLARITY. IF A RAILING POST IS MOUNTED IN THE SAME LOCATION OF A BEAM BRACKET THEY WILL HAVE COMMON HARDWARE.

8 1/2" HIGH BEAM

INSIDE CORNER RAILING POST

CORNER POST CHANNEL
#10026
(2 PER INSIDE CORNER RAILING POST)
TOP POST CAP ASSEMBLIES

POST TOP CAP #12411

#10 x 3/8" TRUSS HEAD MACHINE SCREW AND #10 KEPS SHAKEPROOF NUT. (2 PER POST TOP CAP AND 4 PER CORNER POST CAP)

CORNER POST CAP #12421

RAILING POST #12425

INSIDE CORNER RAILING POST #12422

RAILING CHANNEL ASSEMBLY

5/16" x 3/4" TRUSS HEAD MACHINE SCREW (2 PER RAILING CHANNEL)

RAILING BRACKET ASSEMBLY #9560A (2 PER RAILING CHANNEL)

RAILING CHANNEL

GAP AND FLANGE TO BE ON THE SAME SIDE.
PLACEMENT OF RAILING CHANNEL ASSEMBLIES

5/16" x 5/8" HEX HEAD BOLT AND LOCK NUT (4 PER RAILING CHANNEL ASSEMBLY)

THREE RAIL SYSTEM

TWO RAIL SYSTEM

RAILING CHANNEL ASSEMBLIES

RAILING POST #12425

42

10 5/8

17

10 5/8

B 1/2" HIGH BEAM

FLOORING (1 1/2" GRATING SHOWN)
KICKPLATE ASSEMBLY

RAILING POST
#12425

RAILING POST
#12425

FLOORING
(1 1/2" GRATING SHOWN)

FLOORING
(1 1/2" GRATING SHOWN)

END ANGLE
#9561
(2 PER KICKPLATE)

5/16" x 5/8"
HEX HEAD BOLT
AND LOCK NUT
(2 PER ANGLE
4 PER KICKPLATE)

POST

8 1/2" HIGH BEAM

POST

8 1/2" HIGH BEAM

THREE RAIL SYSTEM

RAILING CHANNEL
ASSEMBLIES

2"

10 5/8"

10 5/8"

10"

FLOORING
(1 1/2" GRATING SHOWN)

6 1/4"

17"

16 1/4"

NOTE: THE BOTTOM OF THE KICKPLATE SHOULD BE EVEN WITH THE TOP OF THE BEAM.
KICKPLATE ANGLE CLIP ASSEMBLY

ANGLE CLIP
#9562
1 1/8" x 1 3/8"

LONG FLANGE DOWN

5/16" x 5/8" HEX
HEAD BOLT AND LOCK
NUT. (2 EA. PER ANGLE CLIP)

8 1/2" HIGH BEAM

OUTSIDE CORNER ANGLE ASSEMBLY

RAILING CHANNEL
ASSEMBLIES

CORNER ANGLE
#9563
1 3/4" x 1 3/4"

RAILING POST
#12425

5/16" x 5/8" HEX
HEAD BOLT AND LOCK
NUT. (2 PER ANGLE CLIP)
DROP GATES

NOTE: THE POST THAT IS TO HAVE THE PIVOT BRACKET ATTACHED TO IT CANNOT BE LESS THAN 44” FROM ANY CORNER ON THE MEZZANINE. DO NOT TIGHTEN HARDWARE UNLESS SPECIFIED.

1. Fasten the pivot bracket to the proper railing post. NOTE: The pivot bracket seats on the floor. (SEE PAGE 28)
2. Fasten the pivot bars and the proper gate guide at the bottom. NOTE: Be sure to use the proper holes. (SEE PAGE 28)
3. Seat drop gate inside pivot bracket. Slide the pivot shaft through the bracket and pivot bar holes. Insert cotter pin. (SEE PAGE 29)
4. Assemble the rail guide to the railing post. Note the rail guide flange goes through the gate guide slot. (SEE PAGE 29)
5. On 45” and 69” drop gates attach the gate stop and rail stop to the drop gate and appropriate railing post. (SEE PAGE 30)
6. On the 90” drop gate install the locking channels. One on the top and one on the bottom. Attach one to one half of the drop gate and the other one to the opposite half of the drop gate. (SEE PAGE 31)
7. On the 90” drop gate install the guide bars, 2 per each half of drop gate. (SEE PAGE 31) Tight all hardware and test the pivoting action.

45” DROP GATE

DROP GATE
#78141
41 3/4” x 69 5/16”

69” DROP GATE

90” DROP GATE

DROP GATE
#78140
41 3/4” x 45 5/16”
(2 PER 90” DROP GATE)

RAILING POST
#12425

RAILING CHANNELS

88” OPENING
PIVOT BRACKET ASSEMBLY

NOTE: PIVOT BRACKET SEATS ON THE FLOOR.

PIVOT BRACKET #7645

RAILING POST #12425

KICKPLATE

FLOORING

5/16" x 5/8" HEX HEAD BOLT (13152) AND LOCK NUT (13051).

PIVOT BARS AND GATE GUIDE ASS’Y

NOTE:
GATE GUIDE HAS TO BE INSTALLED ON OUTSIDE OF GATE AT PIVOT END.

GATE GUIDE #9353L

COMMON SCREW FOR PIVOT BAR AND GATE GUIDE

3/8" x 3/4" HEX HEAD BOLT (13188), LOCKWASHER, (13182) AND HEX NUT (13191), 3 EA. PER GATE BAR

PIVOT BAR #7655 (2 PER DROP GATE)

NOTE: USE THE SECOND HOLE FROM THE END WHEN MOUNTING THE PIVOT BARS.

3/8" x 3/4" HEX HEAD BOLT (13188) BOLT, LOCKWASHER, AND (13182) AND HEX NUT (13191), (2 EA. PER PIVOT BAR)
DROP GATE ATTACHMENT

RAILING POST #12425

PIVOT SHAFT #9725

DROP GATE

COTTER PIN #13042
(1 PER PIVOT ASS’Y)

RAIL GATE ASSEMBLY

RAILING POST #12425

NOTE:
RAIL GUIDE FLANGE GOES BETWEEN GATE GUIDE FLANGE AND DROP GATE.

RAIL GUIDE #9352L

GATE GUIDE #9353L

NOTE:
RAIL GUIDE FLANGE GOES THROUGH GATE GUIDE SLOT.

5/16” x 5/8” HEX HD. BOLT (13188) AND LOCK NUT (13051).
GATE STOP AND RAIL STOP
FOR 45” AND 69” DROP GATES

RAILING POST
#12425

DROP GATE OPENING

RAILING CHANNELS

RAIL STOP
#11552
(ONE PER DROP GATE)

DROP GATE

OUTSIDE SURFACE OF DROP GATE.

KICKPLATE

5/16” x 5/8”
HEX HEAD BOLT
AND LOCK NUT.
(2 EA. PER RAIL STOP)

3/8” x 3/4” HEX HEAD
BOLT, LOCKWASHER, AND
HEX NUT. (2 EA. PER GATE STOP)

GATE STOP
#11553
(ONE PER DROP GATE)
NOTE:
GRATING MUST BE MITERED AT POST.