

Check the Order

Make sure that all of the parts required are included in your shipment BEFORE going to the job site. A packing slip is included with your order. Please take the time to check that all of the parts arrived and are in good condition. If you have any damaged or missing parts that are listed on the packing slip, IMMEDIATELY call the carrier that delivered your order and note the damaged or missing parts.

Read the Instructions

Take time to completely read the instructions on how to assemble the ramping system. It may answer some questions you have before you get to the job site. If you have any questions concerning the construction or installation of the ramping system, please feel free to call us at the factory 1-800-800-3864.

Tools Recommended for Ramp Installation

Battery Powered Drill, Phillips Bit, Hex Bit

3/8" Drive Sockets : 1/2", 9/16" 3/8", 1/2", 9/16" Ratchet 1/2", 9/16" Wrenches Drill Bits : 1/4", 5/16", 3/8"

Masonry Bit: 5/16" Tape Measure

Level

"C" type Vice Grips (3 recommended), 4" minimum grip required

Dead Blow Hammer or Rubber Mallet Can of Spray Lubricant (similar to WD-40) Safety Glasses

Flat File

Optional Tools

Shovel

Reciprocating Saw (just in case)

Pry Bar

Broom (for clean up)

Pencil or Marker

Extension Cord

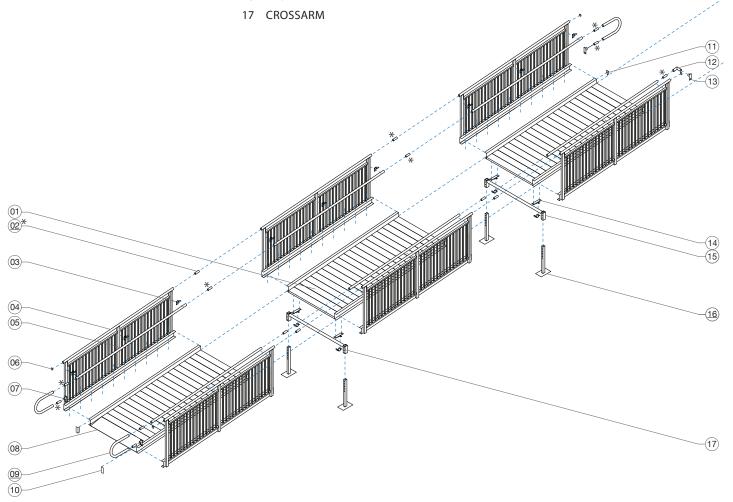
Hints and Tips

- Mating of stringers can be made easier by spraying the lips with WD40 and then using a rubber mallet or C Clamps to connect them.
- When using the self drilling screws it is recommended to use a battery powered drill with a clutch set at 6. Drilling too fast can shear the screws.



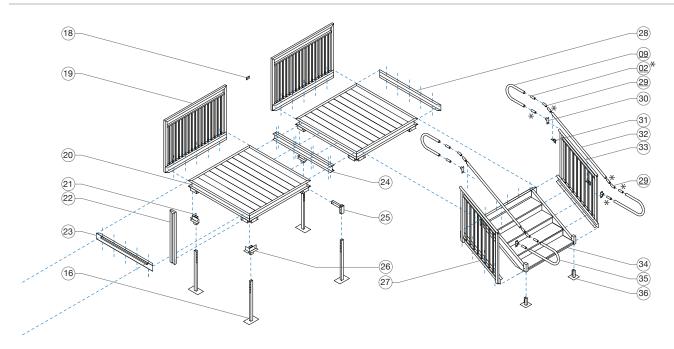


- 01 RAMP
- *02 RAIL INSERT (1057)
 - 03 RAIL BRACKET RAMP (100043 RIGHT / 100044 LEFT)
 - 04 RAMP RAIL (RIGHT / LEFT)
 - 05 GRASPING RAIL
 - 06 CAP (CAPR16GY)
 - 07 LOOP CONNECTOR 1-3/4"(100047)
- 08 RAMP STARTER
- 09 LOOP RAMP / STEP TOP (100033)
- 10 STRINGER CAP BOTTOM 4 5/8" (100031)
- 11 STRINGER CAP TOP 2 1/2" (100032)
- 12 ELBOW 90 DEG (100046)
- 13 RAIL CONNECTOR 5 -1/2" (100048)
- 14 EXTRUDED BRACKET BASE (EB)
- 15 EXTRUDED BRACKET CAP (EB)
- 16 LEG





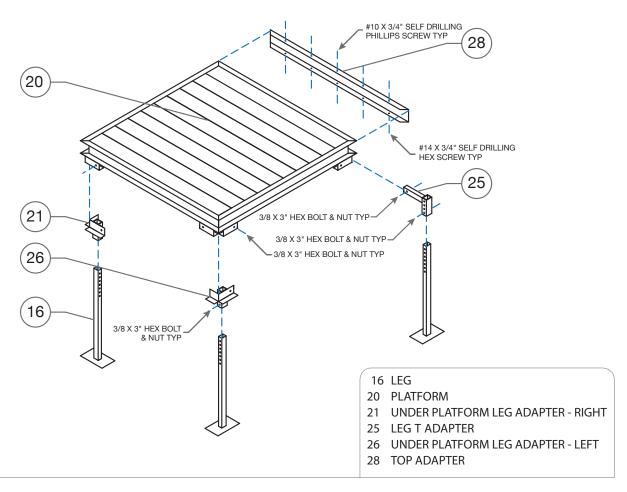




- 18 GUARDRAIL BRACKET (100050)
- 19 PLATFORM RAIL
- 20 PLATFORM
- 21 UNDER PLATFORM LEG ADAPTER (100008R RIGHT)
- 22 PLATFORM GUARDRAIL 5"
- 23 RAMP TO PLATFORM ADAPTER
- 24 I BEAM CONNECTOR
- 25 LEG T ADAPTER (100007)
- 26 UNDER PLATFORM LEG ADAPTER (100008L LEFT)
- 27 STEP RAIL (LEFT)
- 28 TOP ADAPTER
- 29 LOOP CONNECTOR 30 DEG (100035)
- 30 LOOP CONNECTOR 3-3/4" (100036)
- 31 RAIL BRACKET STEP (100060 RIGHT / 100061 LEFT)
- 32 GRASPING RAIL
- 33 STEP RAIL (RIGHT)
- 34 STEP
- 35 LOOP STEP BOTTOM (100034)
- 36 LEG STEP (100057)

PLATFORM LEG INSTALLATION AND TOP ADAPTER





Begin the installation at the top of the system. In most cases this will involve installing one or more PLATFORMS.

If you are using an existing porch or landing you will only need to attach the **RAMP TO PORCH ADAPTER** and then move on to installing the **RAMPS**.

Choose which PLATFORM will connect to the building and install the TOP ADAPTER on the side touching the building using:

#10 x 3/4" self drilling phillips screws on top

#14 x 3/4" self drilling hex screws on bottom

Screws should be spaced 2.5" from each end with a maximum spacing of 17" on center.

Install the UNDER PLAT LEG ADAPTER (or LEG T ADAPTER) in each corner of the PLATFORM using:

3/8 x 3" hex bolts and nuts

Make sure to plan the LEG placement around any obstacles and position the LEGS so they do not hit the building.

Measure the desired height of the PLATFORM and install the LEGS to this height using:

3/8 x 3" hex bolts and nuts

LEGS may need to be trimmed to length to fit under the **PLATFORM**.

Move **PLATFORM** into position and attach securely to building using:

5/16 x 4 1/2" hex bolts and nuts (CAP.PLT)

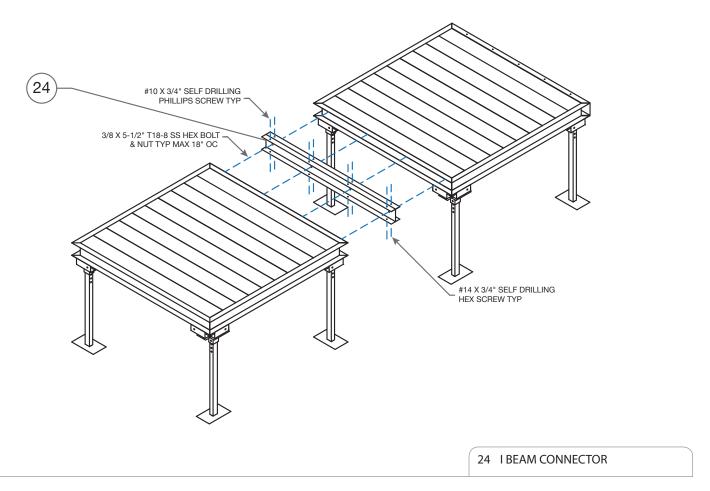
Additional anchors or special attachment may be required depending on the condition of the building.

If there are multiple **PLATFORMS** being used as a Top **PLATFORM** then install the **TOP ADAPTERS** on all **PLATFORMS** before joining **PLATFORMS** together.

Screws are located in the PLATFORM PACK (CAP.PLM).







To connect two **PLATFORMS** together first install the **I BEAM CONNECTOR** on one **PLATFORM** using a rubber mallet and screw in place using:

#10 x 3/4" self drilling phillips screws on top

#14 x 3/4" self drilling hex screws on bottom

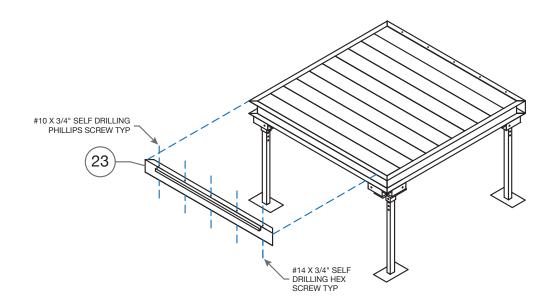
Then place the second **PLATFORM** in place and connect using:

3/8 x 5-1/2" hex bolts and nuts

Tighten bolts to pull the **PLATFORMS** firmly together with bolts spaced a maximum of 28" on center.

Bolts are located in the I BEAM PACK (CAP.PLC).





23 RAMP TO PLATFORM ADAPTER

Install the RAMP TO PLAT ADAPTER on the side that the RAMP will descend from. Make sure to align it to one side so there is room for the 5" GUARDRAIL. Install with a rubber mallet and fasten in place using:

#10 x 3/4" self drilling phillips screws on top

#14 x 3/4" self drilling hex screws on bottom

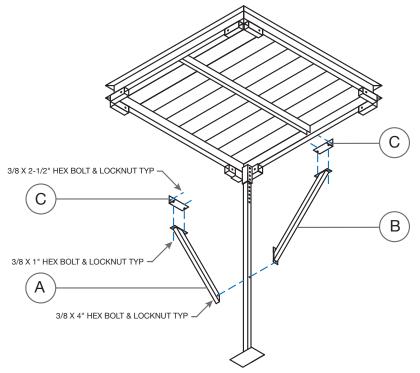
Screws should be spaced 2.5" from each end with a maximum spacing of 17" on center.

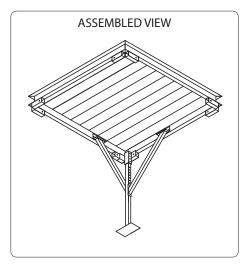
Screws are located in the PLATFORM PACK (CAP.PLM).

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- A DIAGONAL BRACE A
- B DIAGONAL BRACE B
- C DIAGONAL ANGLE

If **DIAGONAL BRACING** is required for the **PLATFORMS** select which legs to install the bracing on. Bolt the **ANGLES** to the plates on the **DIAGONAL BRACES** using:

- 2 3/8 x 1" hex bolt
- 2 3/8 nylon locknut

Then position each **DIAGONAL BRACE** against the chosen **LEG** so the **ANGLE** aligns with the inside of the Platform Stringer. Drill holes and bolt in place using:

- 2 3/8 x 2-1/2" hex bolts
- 2 3/8 nylon locknuts

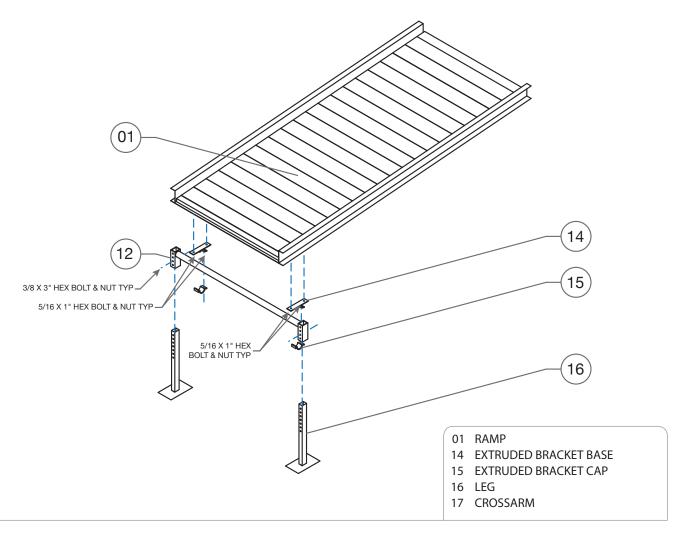
for the **ANGLES** and:

- 1 3/8 x 4" hex bolt
- 1 3/8 nylon locknut

for the BRACES.

Screws are located in the **DIAGONAL PACK** (CAP.DIA).





Identify the top RAMP and install the 2 EXTRUDED BRACKETS to the Plates on the underside of the RAMP using:

4 - 5/16 x 1" hex bolts and nuts

Tighten. Remove the EXTRUDED BRACKET CAPS and place the CROSSARM in the EXTRUDED BRACKET BASE. Make sure to center the CROSSARM on the RAMP and tighten in place.

Insert LEGS into sockets and bolt in place using

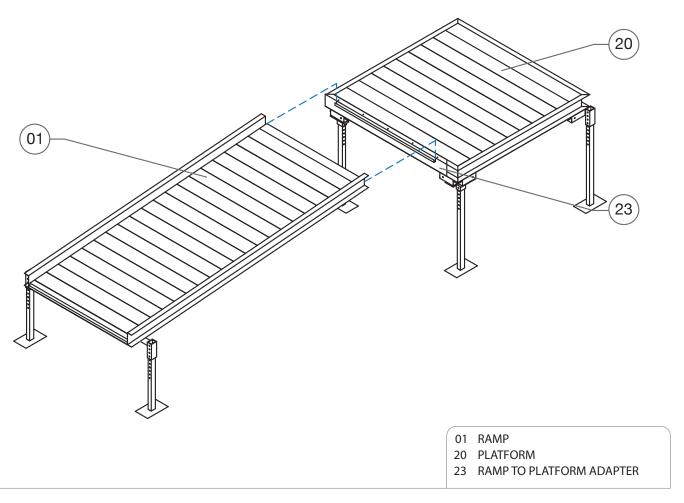
2 - 3/8 x 3" hex bolts and nuts

Wait to tighten after adjusting and checking slope of system.

Bolts are located in the ramp RAMP PACK (100059).

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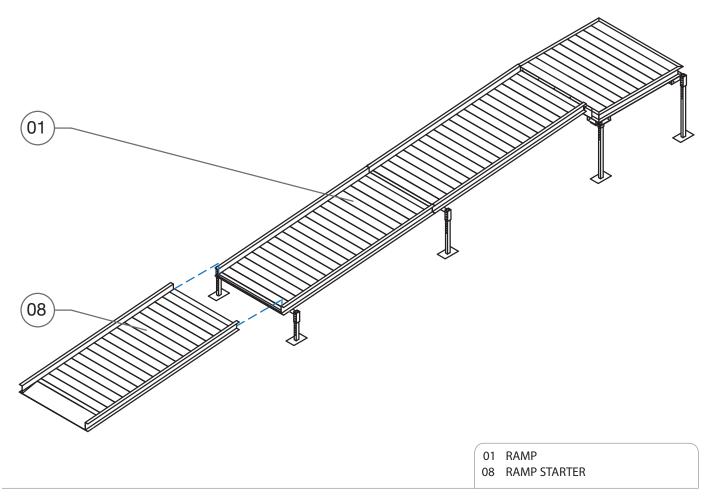




Move top RAMP into place and lower into groove to mate the RAMP to the RAMP TO PLAT ADAPTER. Check and adjust slope as needed.

Repeat Steps 2A and 2B for remaining RAMPS.

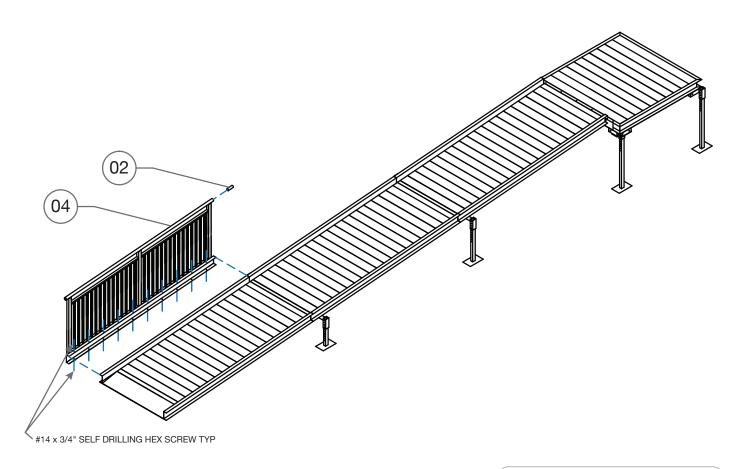




The last **RAMP** will be a **STARTER RAMP** with a Starter Plate at the bottom. This **RAMP** will not require a **CROSSARM** or **LEGS** as it rests directly on the Ground.

If the System has more than one ramp run and the last **RAMP** is ending in a **PLATFORM** it will connect with a **PLAT TO RAMP ADAPTER**. Please see Step 1C for installation instructions.





02 RAIL INSERT (1057)

04 RAMP RAIL

Begin installing **HANDRAILS** from the **STARTER RAMP**.

Select a **RAMP HANDRAIL** (Ramps and Starter Ramps use the same Handrails) and position it so the channel aligns with the **RAMP** making sure the ends are flush and that the Handrail channel is on top of the Ramp channel. Mate the two channels together using a rubber mallet.

Secure **HANDRAIL** using:

#14 x 3/4" self drilling hex screw

in each pilot hole.

Place RAIL INSERT halfway into top of HANDRAIL tube and secure using:

#10 x 3/4" self drilling phillips screw

on the underside of the tube.

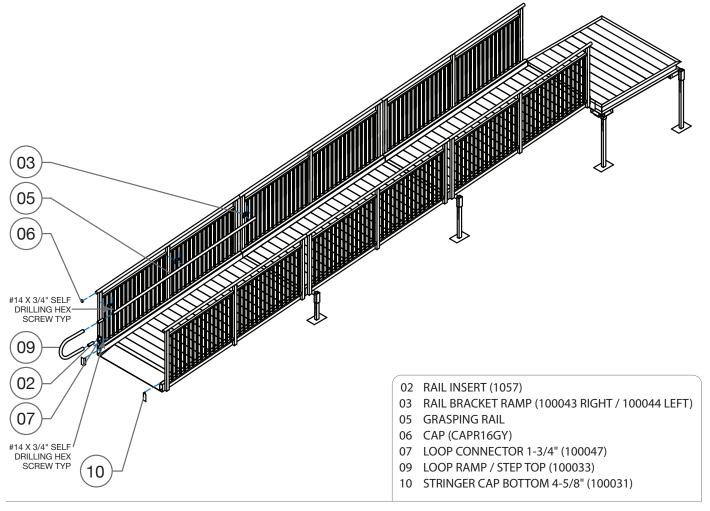
Repeat for other side and then other **RAMPS** moving towards the top of the system. Make sure **HANDRAILS** capture **RAIL INSERTS**.

Double check slope to make sure **HANDRAILS** align correctly.

Bolts are located in the ramp RAMP PACK (100059).

GRASPING HANDRAIL AND LOOP INSTALLATION





Measure to your desired height and position a RAIL BRACKET RAMP against each post and clamp in position. Take the GRASPING RAIL and lay it in the cup.

Check that the **GRASPING RAIL** is at the correct height from the ramp surface and then attach the **RAIL BRACKETS** using: #14 x 3/4" self drilling hex screw

Attach the GRASPING RAIL using:

#10 x 3/4" self drilling phillips screw

on the underside at each bracket.

Insert a RAIL INSERT halfway into the top of the GRASPING RAIL and hold in place with:

#10 x 3/4" self drilling phillips screw

Repeat for each length of GRASPING RAIL moving towards the top and then the other side.

To attach **LOOPS** at top or bottom of **RAMP** insert a **RAIL INSERT** halfway into both arms of the **LOOP** and attach with: #10 x 3/4" self drilling phillips screw

Slide one arm of the LOOP into the GRASPING RAIL and the lower end into a LOOP CONNECTOR (1-3/4" in length). Pivot the LOOP until the LOOP CONNECTOR aligns with the RAIL post and clamp in position. Secure to post with:

#14 x 3/4" self drilling hex screw

Secure both arms of LOOP with:

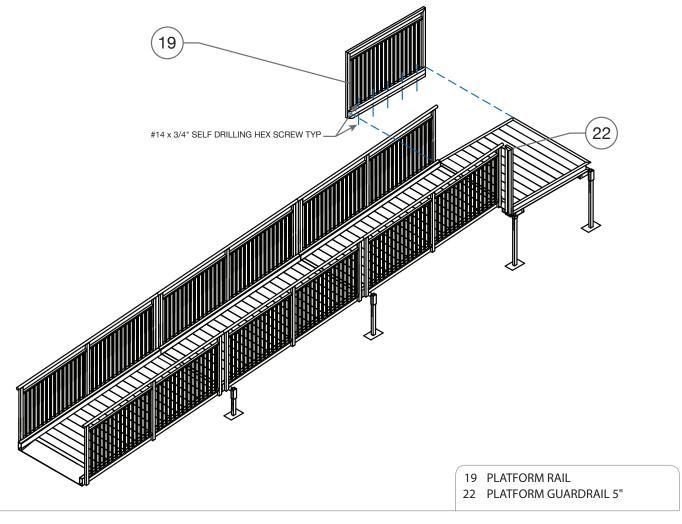
#14 x 3/4" self drilling hex screw

Close any open tubes on the RAIL with the CAPS.

Use **STRINGER CAPS** to close the opening at the top and bottom of the **RAMP** stringers. The 4-5/8" caps are for the bottom and the 2-1/2" are for the top. Install each one using:

2 - #14 x 3/4" self drilling hex screw





Select a **PLATFORM GUARDRAIL** and position it so the channel aligns with the **PLATFORM** making sure the ends are flush and that the guardrail channel is on top of the Platform channel. Mate the two channels together using a rubber mallet.

Secure **GUARDRAIL** using:

#14 x 3/4" self drilling hex screw

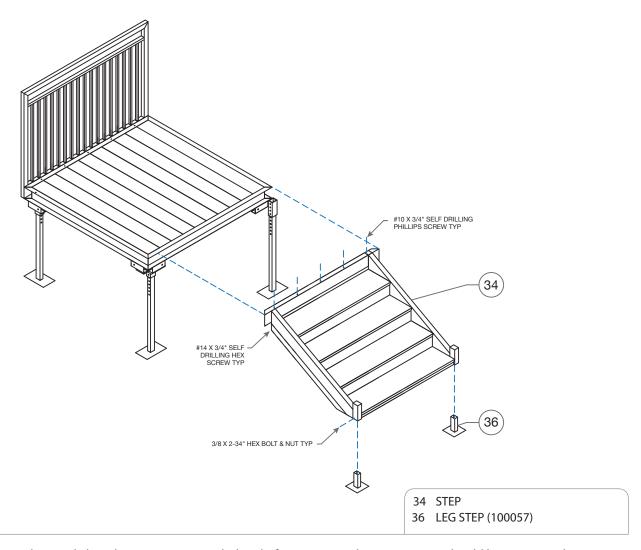
in each pilot hole.

Repeat for other sides of the **PLATFORM**. The 5" **PLATFORM GUARDRAIL** is used on the side of the **PLATFORM** where a **RAMP** or **STEP** is attached. If you have a system with custom sizes the **GUARDRAILS** will be sized differently.

Use **BRACKET ANGLES** to secure the corners and **BRACKET PLATES** where two **GUARDRAILS** meet in line. Secure using: #10 x 3/4" self drilling phillips screw







Move **STEP** into place and align the step stringer with the platform stringer, the step stringer should be on top. Make sure to align it to one side so there is room for the 5" **GUARDRAIL**.

Mate the stringers together using a rubber mallet and fasten in place using:

#10 x 3/4" self drilling phillips screws on top

#14 x 3/4" self drilling hex screws on bottom

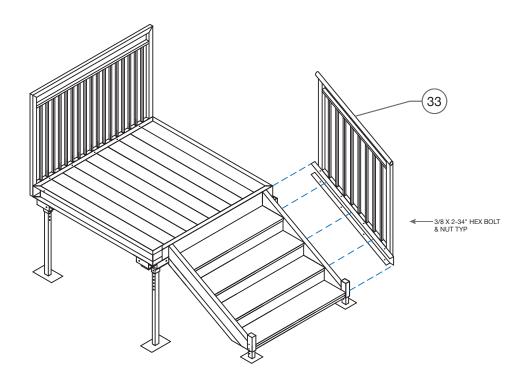
Screws should be spaced 2.5" from each end with a maximum spacing of 17" on center.

Insert step LEGS into sockets at bottom of STEP. Adjust so STEP is level and bolt in place using:

3/8 x 2-3/4" hex bolts and nut

Screws are located in the STEP PACK (CAP.SXX).





33 STEP RAIL (RIGHT)

Select a **STEP HANDRAIL** and position it so the channel aligns with the **STEP** making sure the ends are flush and that the handrail channel is on top of the step channel. Mate the two channels together using a rubber mallet.

Secure **HANDRAIL** using:

3/8 x 2-3/4" hex bolt and nuts

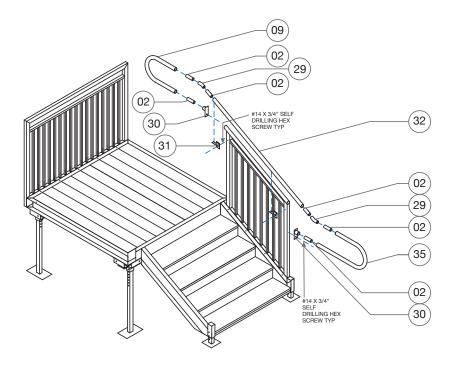
in each pilot hole.

Repeat for other side.

Screws are located in the STEP PACK (CAP.SXX).

4C GRASPING HANDRAIL LOOP INSTALLATION





- 02 RAIL INSERT (1057)
- 09 LOOP RAMP / STEP TOP (100033)
- 29 LOOP CONNECTOR 30 deg (100035)
- 30 LOOP CONNECTOR 3-3/4" (100036)
- 31 RAIL BRACKET STEP (100060 right/100061 left)
- 32 GRASPING RAIL
- 35 LOOP STEP BOTTOM (100034)

Decide on the height of your **GRASPING RAIL** and mount the **RAIL BRACKETS** accordingly by drilling the post and using: 1 3/8 x 2 1/2" hex bolt and nut

for each bracket.

Measure to your desired height and position a RAIL BRACKET STEP (left or against each post and clamp in position. Take the GRASPING RAIL and lay it in the cup. Check that the GRASPING RAIL is at the correct height from the ramp surface and then attach the RAIL BRACKETS using:

#14 x 3/4" self drilling hex screw

Attach the **GRASPING RAIL** using:

#10 x 3/4" self drilling phillips screw

on the underside at each bracket.

To attach LOOPS at top insert a RAIL INSERT halfway into both arms of the LOOP and attach with:

#10 x 3/4" self drilling phillips screw

Insert a third RAIL INSERT halfway into the GRASPING RAIL and attach with:

#10 x 3/4" self drilling phillips screw

Slide one arm of the LOOP into the LOOP CONNECTOR 30° and then onto the RAIL INSERT attached to the GRASPING RAIL. Slide the other arm into the LOOP CONNECTOR 3-3/4" and check for correct alignment. Attach to the post using:

#14 x 3/4" self drilling hex screw

and attach the RAIL INSERTS using:

#10 x 3/4" self drilling phillips screws

To attach LOOPS at bottom insert a RAIL INSERT halfway into both arms of the LOOP and attach with:

#10 x 3/4" self drilling phillips screw

Insert a third RAIL INSERT halfway into the GRASPING RAIL and attach with:

#10 x 3/4" self drilling phillips screw

Slide the short arm of the LOOP into the LOOP CONNECTOR 30° and then onto the RAIL INSERT attached to the GRASPING RAIL. Slide the other arm into the LOOP CONNECTOR 3-3/4" and check for correct alignment. Attach to the post using:

#14 x 3/4" self drilling hex screw

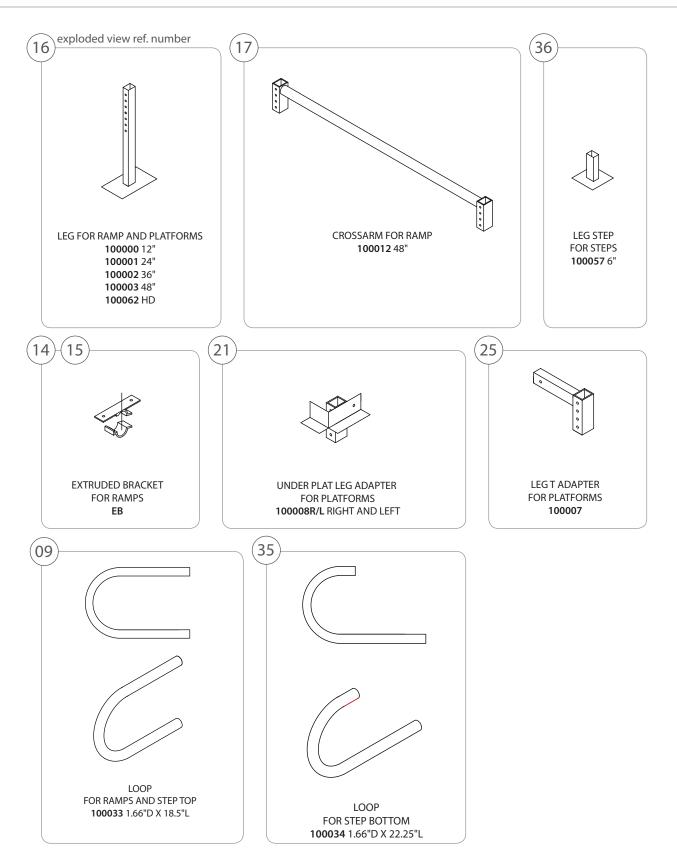
and attach the RAIL INSERTS using:

#10 x 3/4" self drilling phillips screws

Close any open tubes on the RAIL with the CAPS.

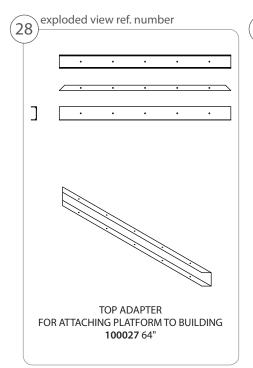


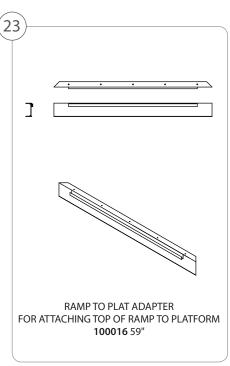


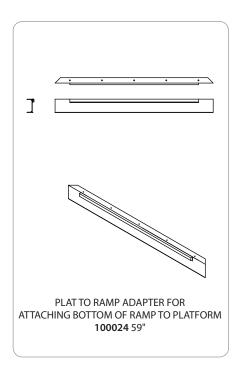


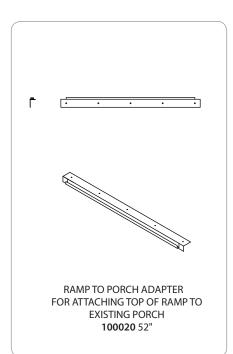


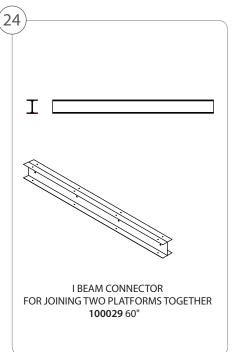






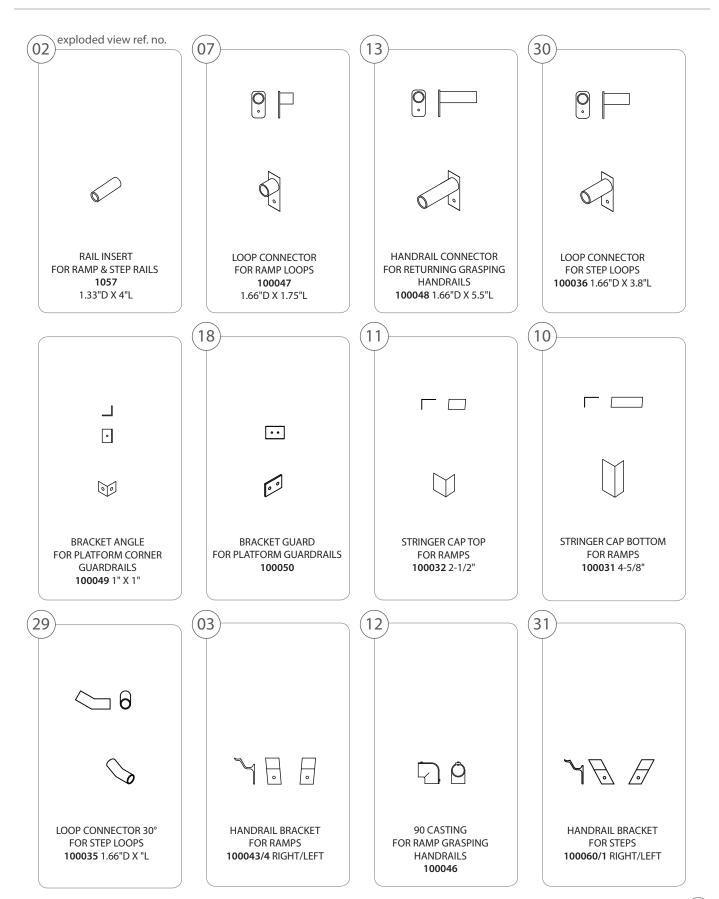
















RAMP PACK: 100059		
ZN03	#14 x 3/4" self drilling hex screw50	
ZJ03	#10 x 3/4" self drilling phillips screw \dots 15	
X304	5/16 x 1" hex bolt4	
Z350	5/16 nut	
X412	3/8 x 3" hex bolt2	
Z450	3/8 nut2	

STEP PACK: CAP.SXX		
ZN03	#14 x 3/4" self drilling hex screw8	
ZJ03	#10 x 3/4" self drilling phillips screw28	
X411	3/8 x 2-3/4" hex bolt2 (XX-1)	
Z450	3/8 nut2 (XX-1)	
* XX = number of risers		

STARTER RAMP PACK: CAP.RMS	
ZN03	#14 x 3/4" self drilling hex screw50
ZJ03	#10 x 3/4" self drilling phillips screw15

PLATE	PLATFORM PACK: CAP.PLM	
ZN03	#14 x 3/4" self drilling hex screw40	
ZJ03	#10 x 3/4" self drilling phillips screw10	
X412	3/8 x 3" hex bolt8	
Z450	3/8 nut8	

TOP PLATFORM PACK: CAP.PLT X314L 5/16 x 4-1/2" lag bolt......................4

(I BEAI	M PACK: CAP.PLC
	ZN03	#14 x 3/4" self drilling hex screw10
	ZJ03	#10 x 3/4" self drilling phillips screw 10
	X422	3/8 x 5-1/2" hex4
	Z450	3/8 nut4

DIAG	ONAL PACK: CAP.DIA
X404	3/8 x 1" hex4
X410	3/8 x 2-1/2" hex6
X416	3/8 x 4" hex1
Z451	3/8 lock nut4