



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.

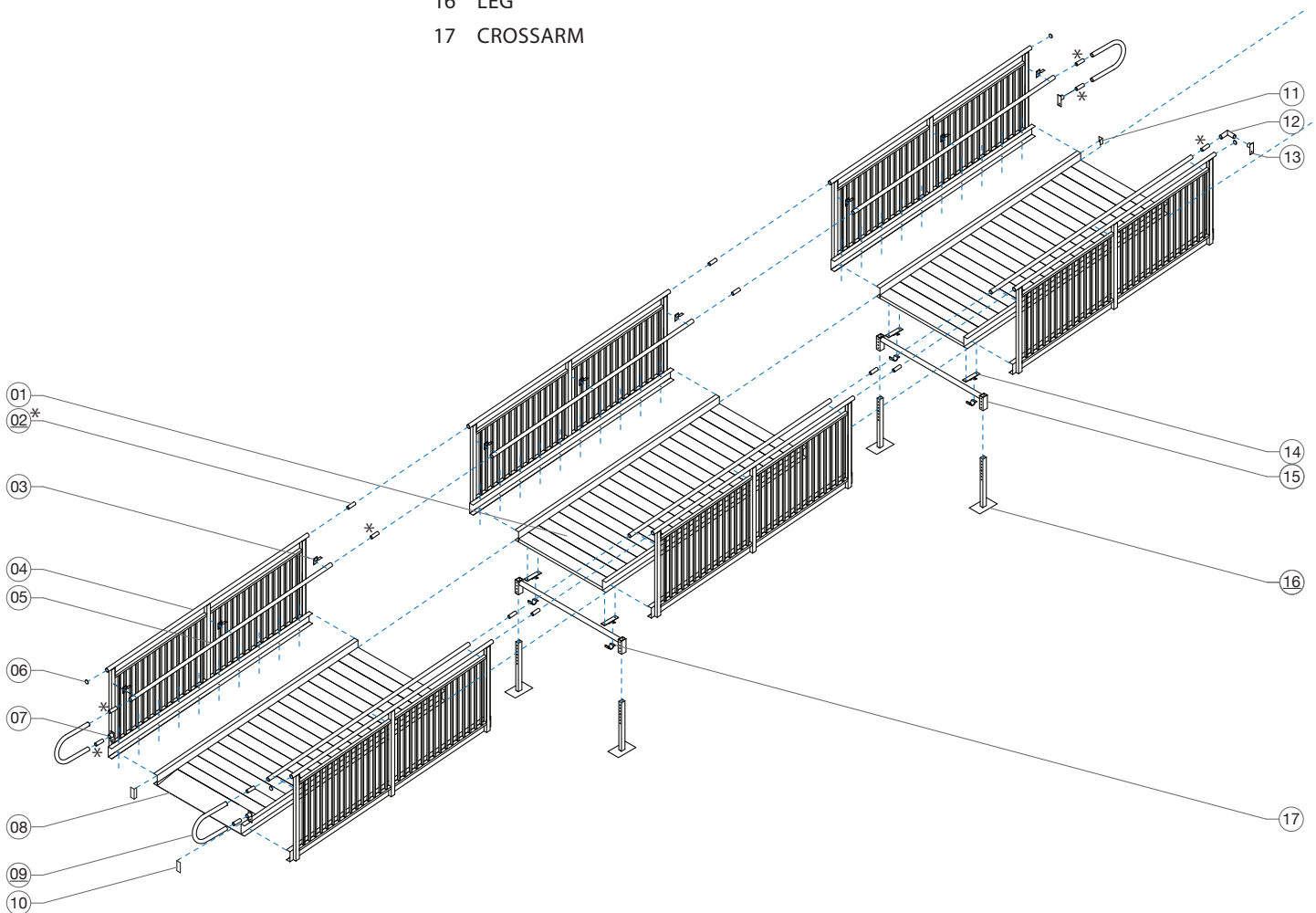
Tools Recommended for Ramp Installation

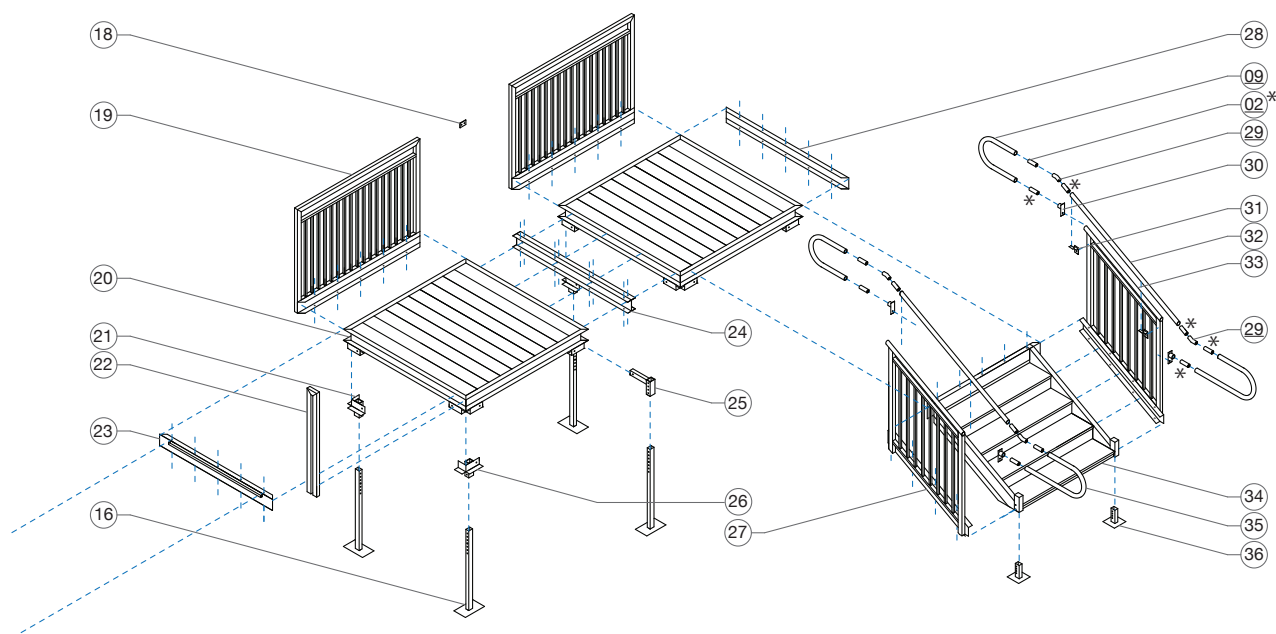
Battery Powered Drill, Phillips Bit, Hex Bit
3/8" Drive Sockets : 7/16", 1/2", 9/16"
3/8" Ratchet
7/16", 1/2", 9/16" Wrenches
Drill Bits : 7/32", 1/4", 5/16", 3/8", (and) 7/16"
Masonry Bit : 5/16"
Tape Measure
Level
"C" type Vice Grips (3 recommended), 4" minimum grip required
Dead Blow Hammer or Rubber Mallet
Can of Spray Lubricant (similar to WD-40)
Safety Glasses
Flat File

Optional Tools

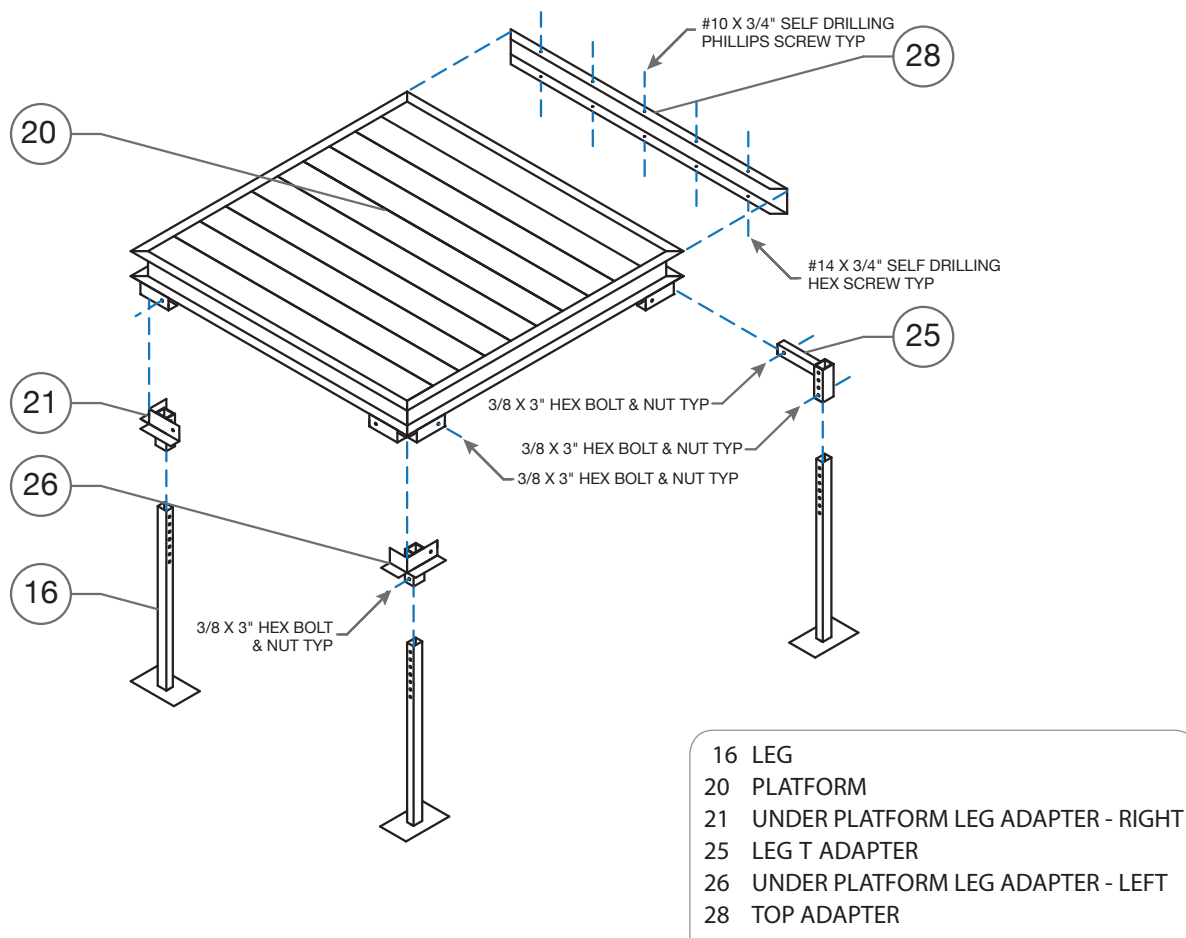
Shovel
Reciprocating Saw (just in case)
Pry Bar
Broom (for clean up)
Pencil or Marker
Extension Cord

- 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
- 17 CROSSARM





- 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)



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.

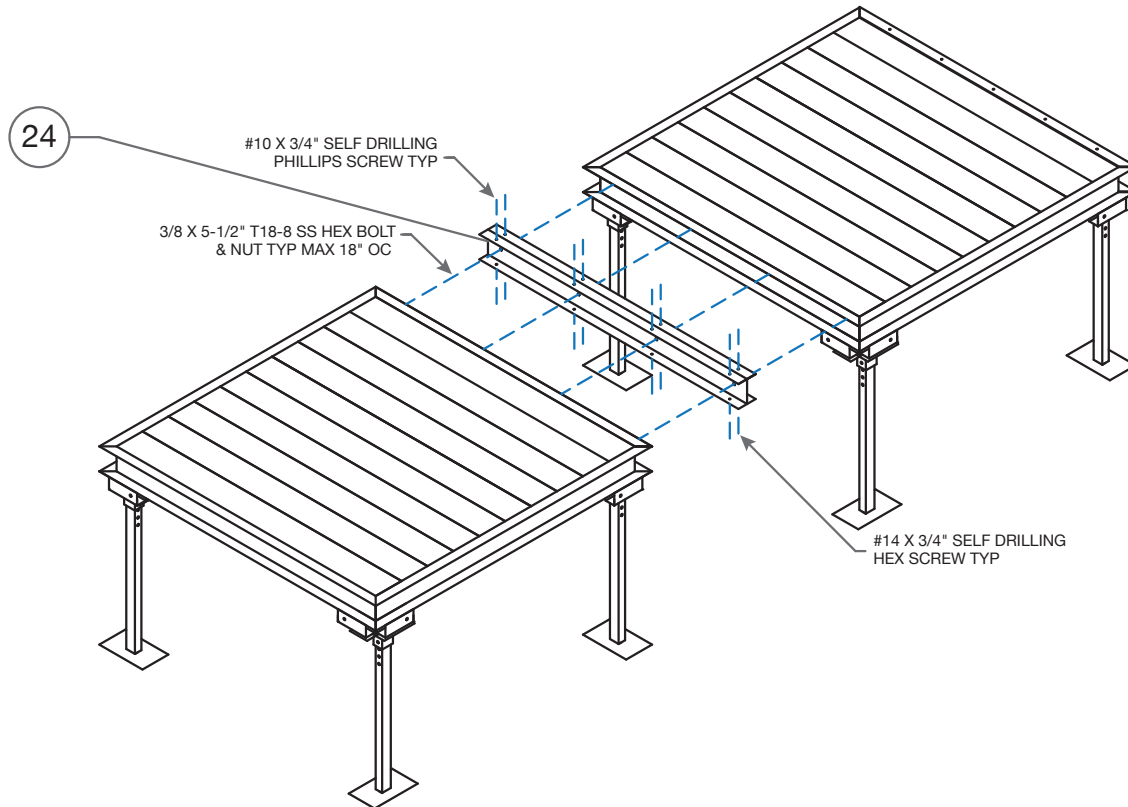
Measure the desired height of the **PLATFORM** and install the **LEGS** to this height using:

3/8 x 3" hex bolts and nuts

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

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

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



24 I BEAM CONNECTOR

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:

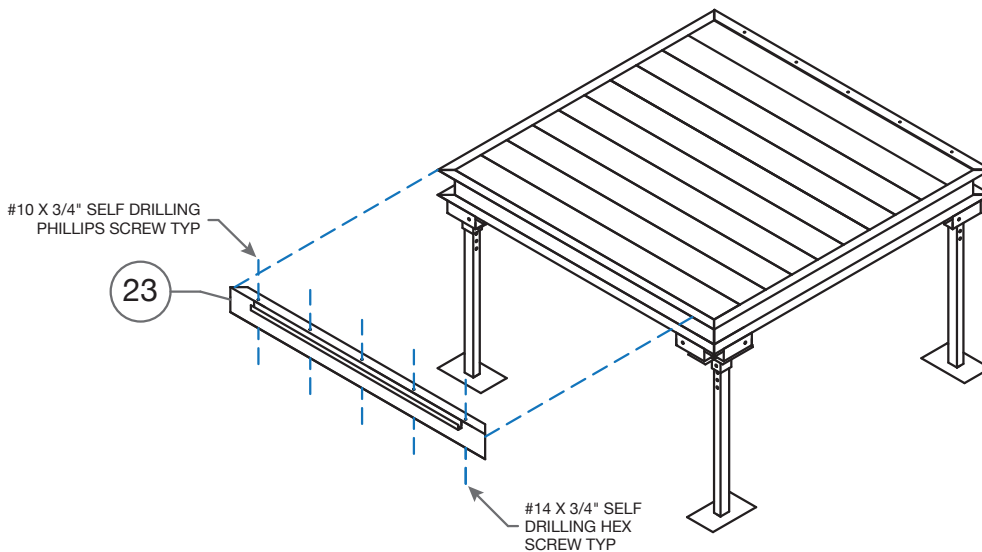
- 3/8 x 5-1/2" hex bolts and nuts

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).

1C RAMP TO PLATFORM ADAPTER INSTALLATION

PLAT TO RAMP ADAPTER IS THE SAME PROCEDURE



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

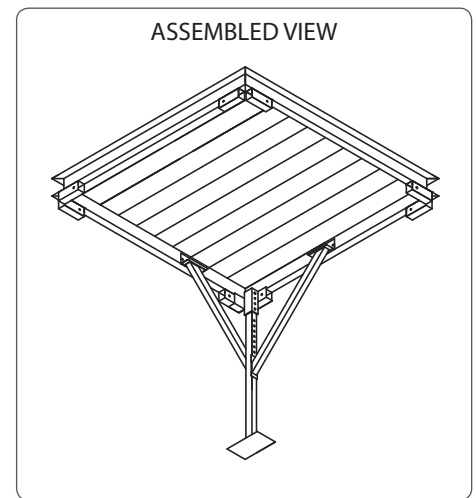
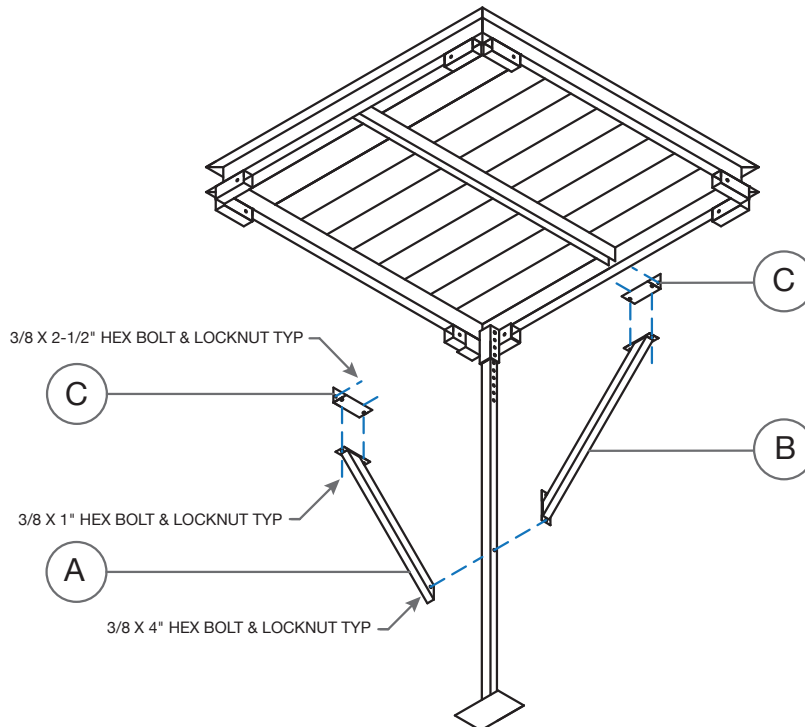
Screws should be spaced 2.5" from each end with a maximum spacing of 17" on center.

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

1D DIAGONAL BRACE INSTALLATION

VIEW IS FROM BELOW

UNDERPLAT ADAPTERS MUST BE USED.



- 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:

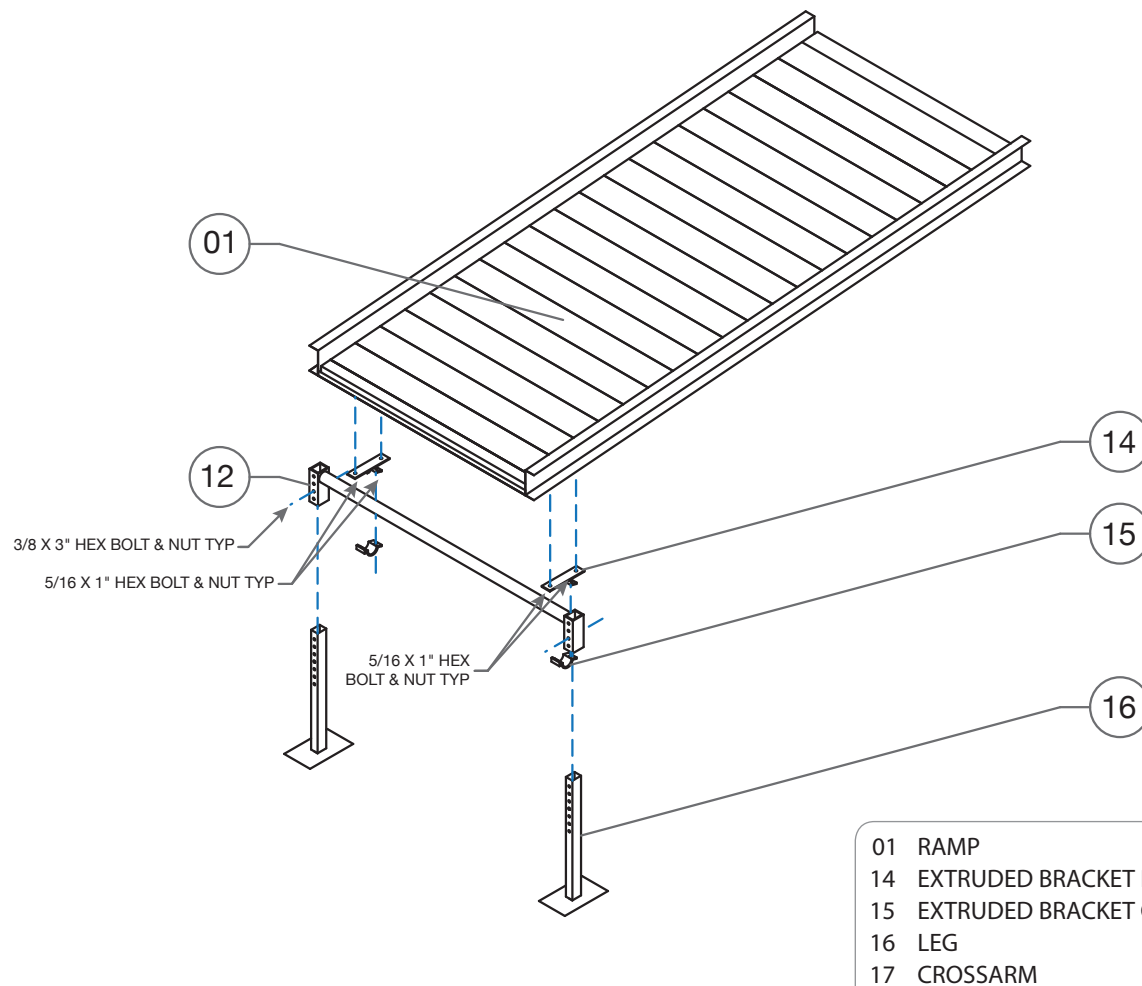
- 2 - 3/8 x 2-1/2" hex bolts
- 2 - 3/8 nylon locknuts

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).



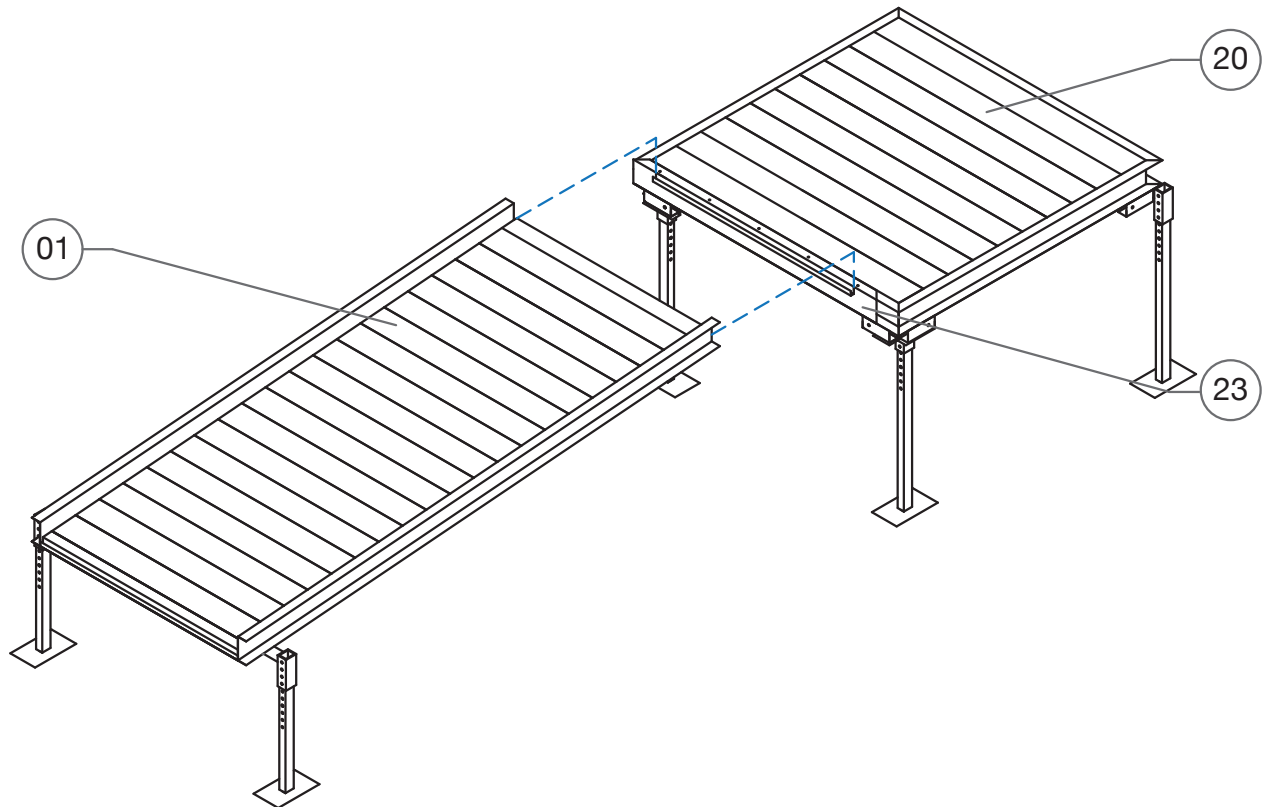
Identify the top **RAMP** and install the 2 **EXTRUDED BRACKETS** to the Plates on the underside of the **RAMP** using:
4 - 5/16 x 1" hex bolts and nuts

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.

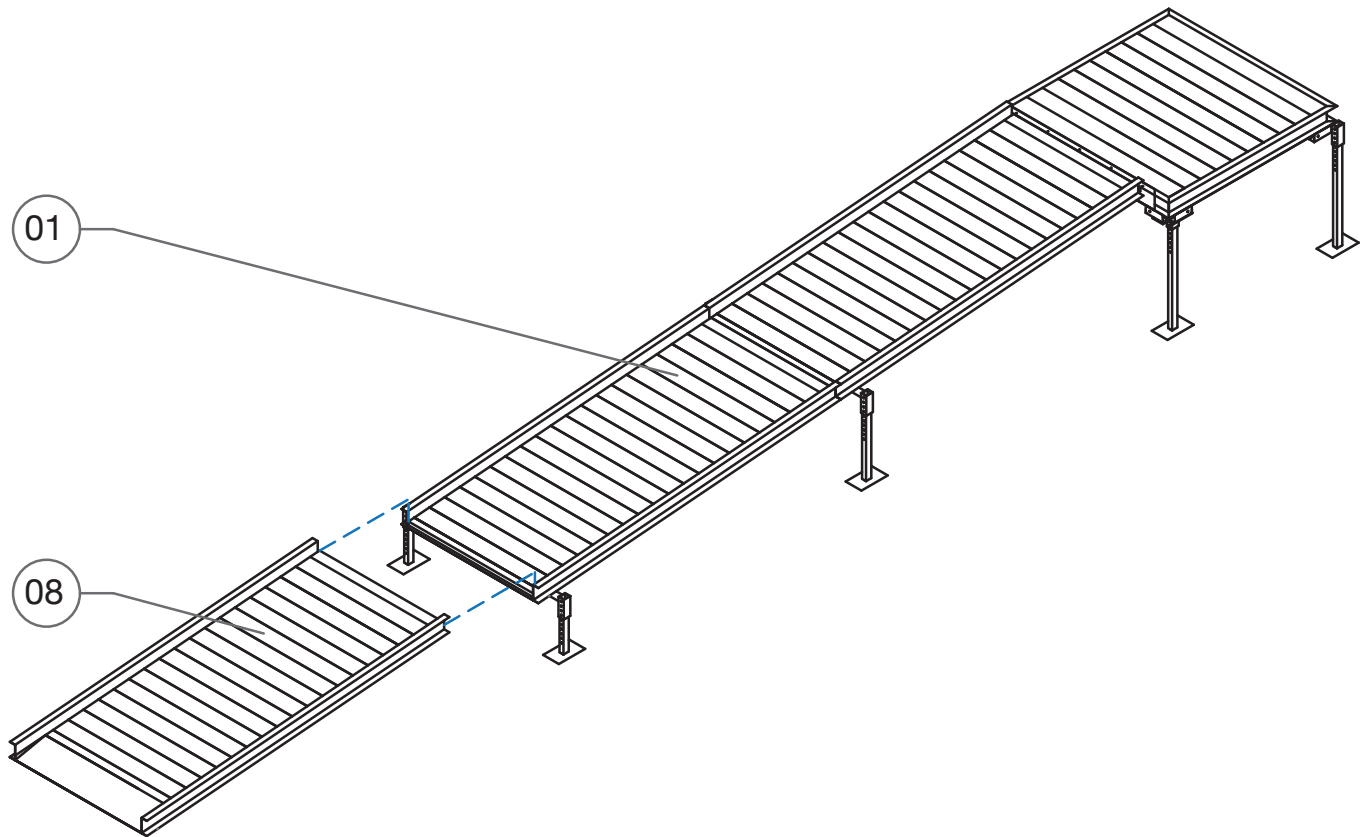
Bolts are located in the ramp **RAMP PACK** (100059).



- 01 RAMP
- 20 PLATFORM
- 23 RAMP TO PLATFORM ADAPTER

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.

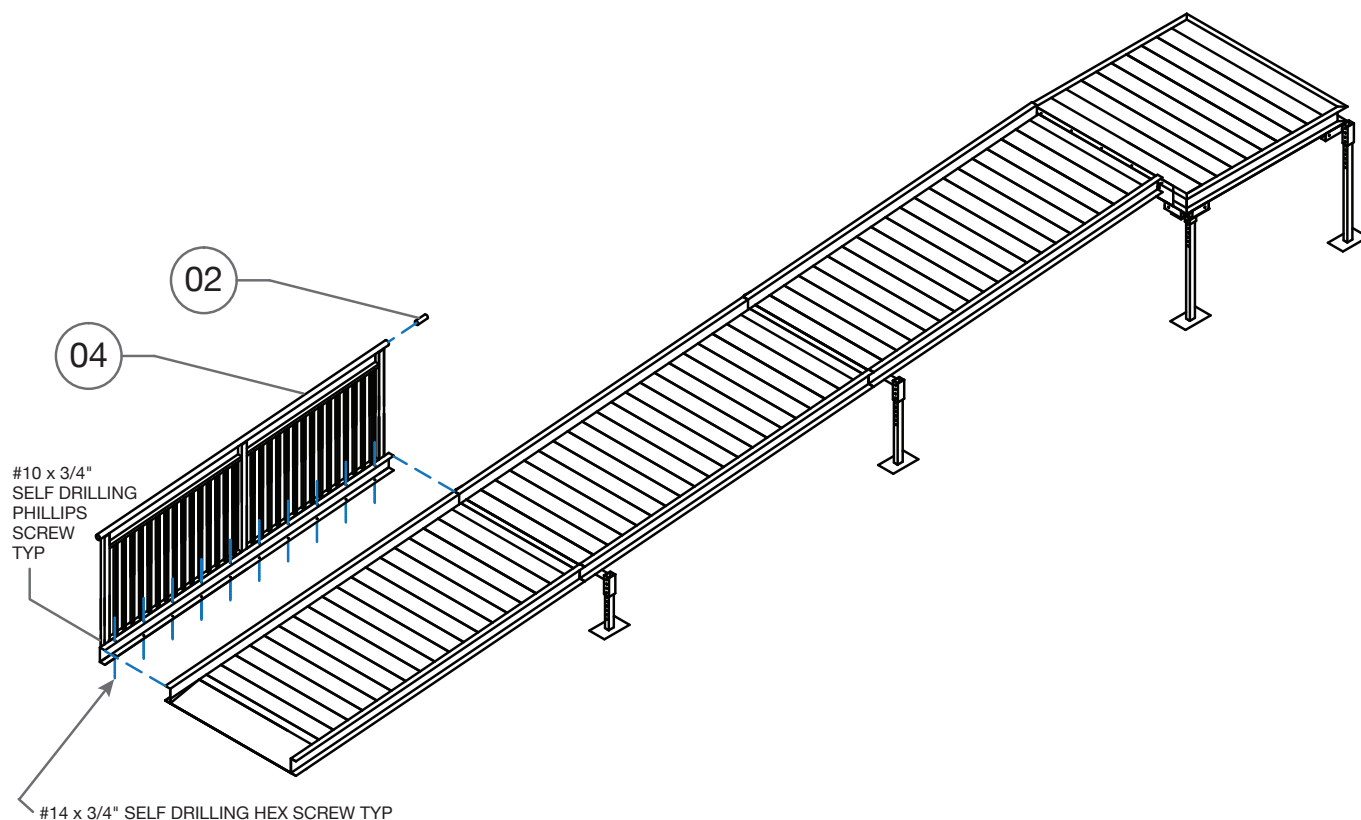
Repeat Steps 2A and 2B for remaining **RAMPS**.



- 01 RAMP
- 08 RAMP STARTER

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:

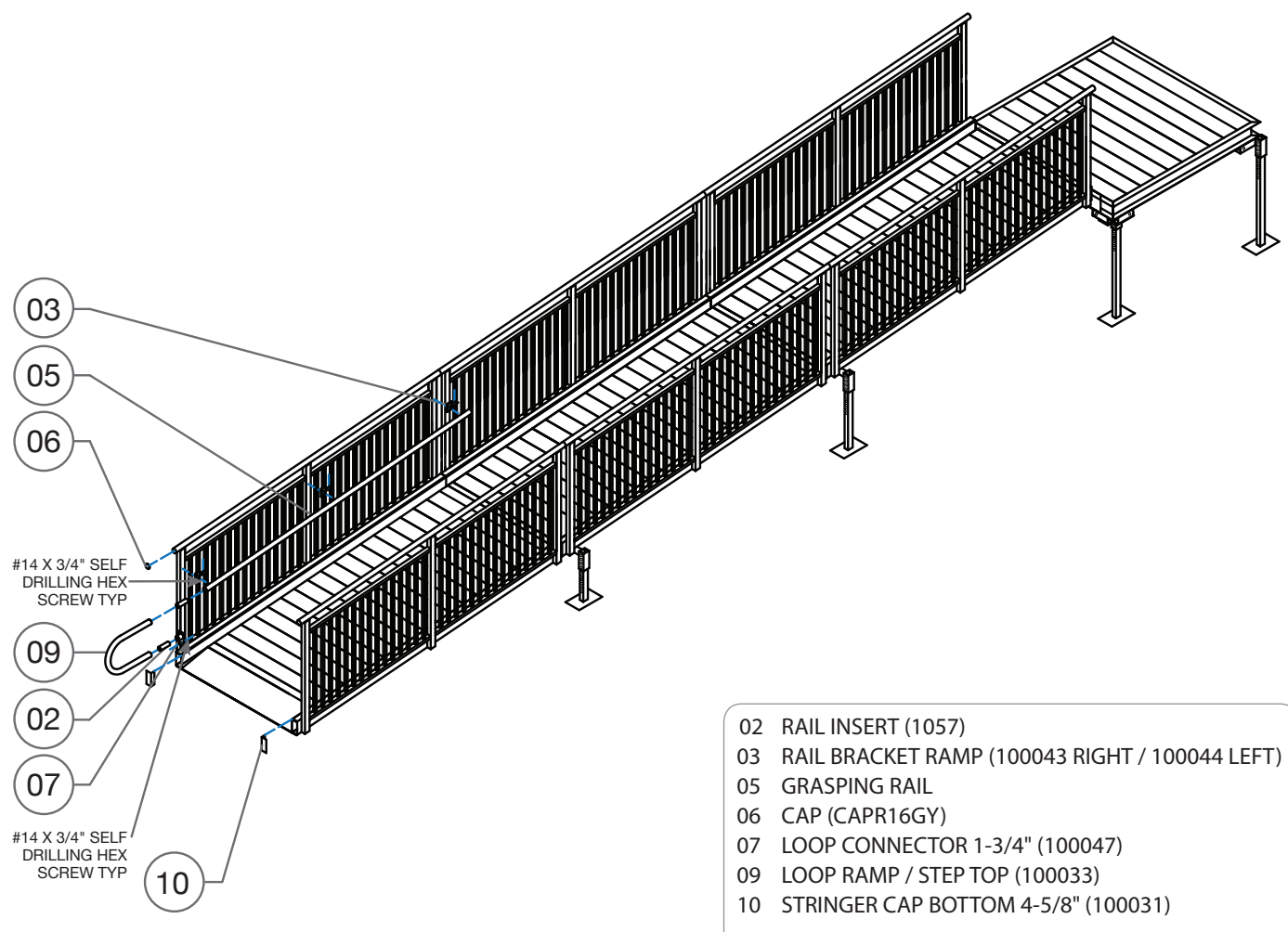
#14 x 3/4" self drilling hex screw
in each pilot hole.

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.



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.

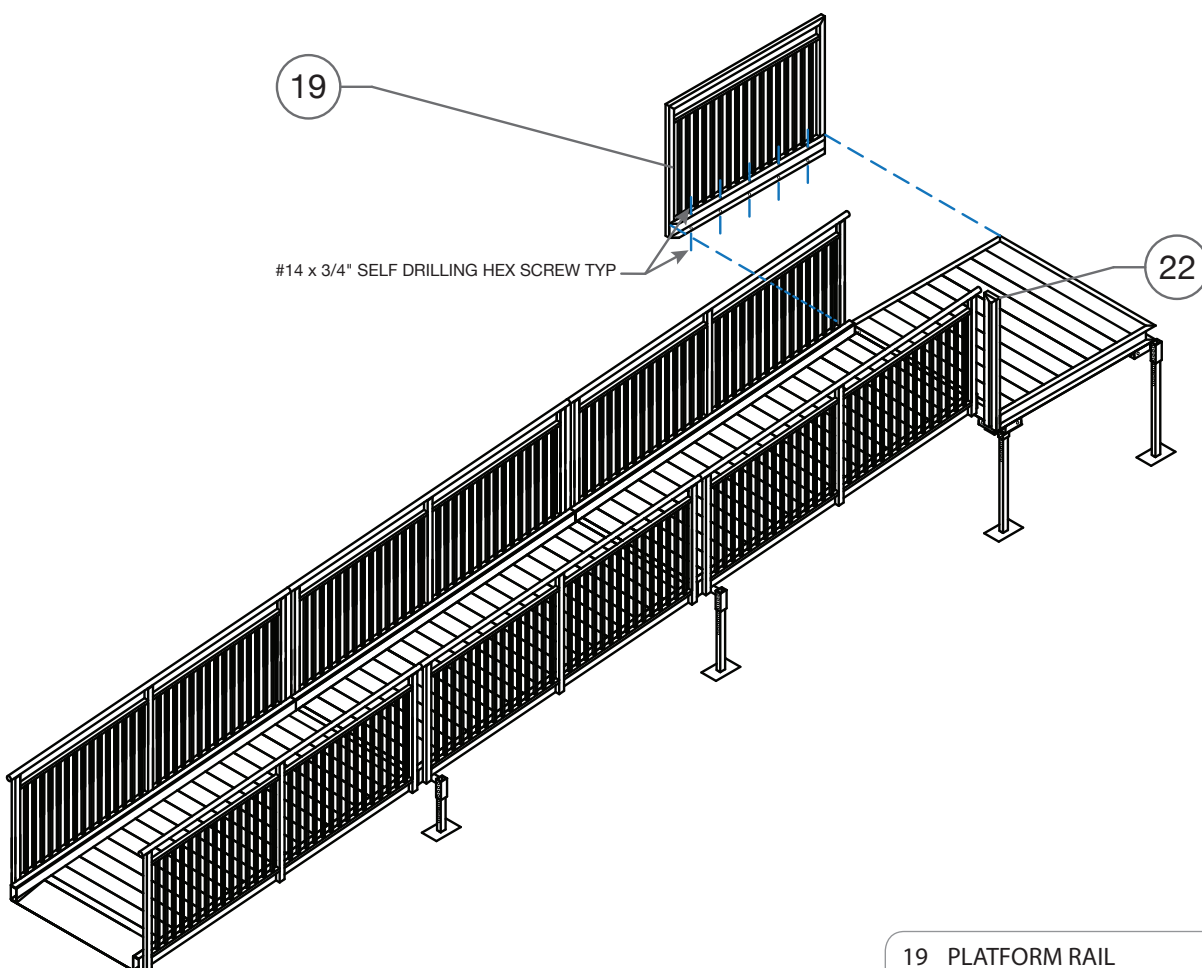
To attach **LOOPS** at top or bottom of **RAMP** insert a **RAIL INSERT** halfway into both arms of the **LOOP** and attach with:
#10 x 3/4" self drilling phillips screw

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



- 19 PLATFORM RAIL
- 22 PLATFORM GUARDRAIL 5"

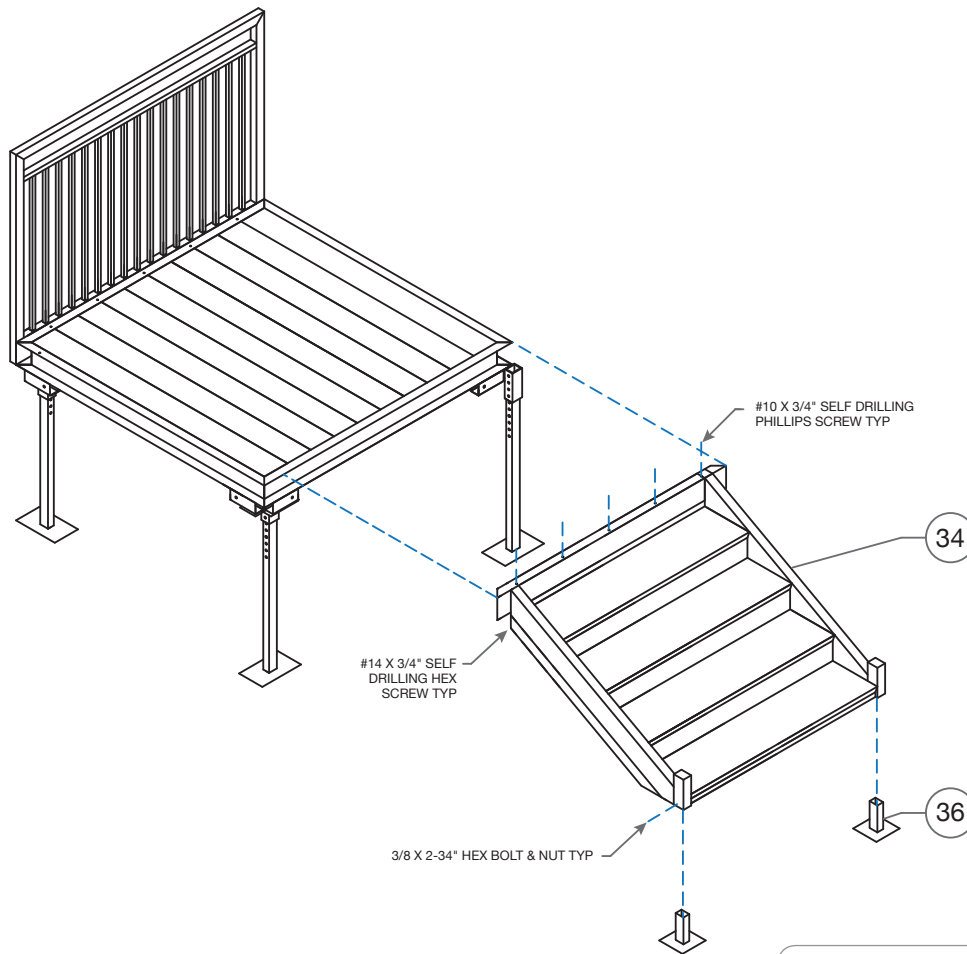
Select a **PLATFORM GUARDRAIL** and position it so the channel aligns with the **PLATFORM** making sure the ends are flush and that the GUARDRAIL channel is on top of the Platform channel. Mate the two channels together using a rubber mallet.

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



34 STEP
36 LEG STEP (100057)

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:

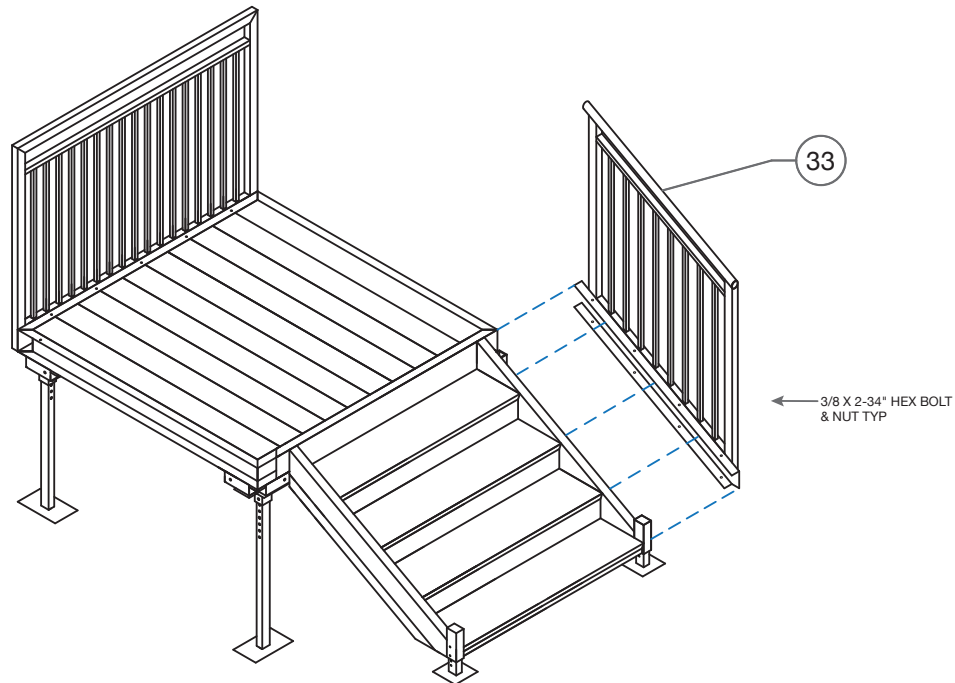
- #10 x 3/4" self drilling phillips screws on top
- #14 x 3/4" self drilling hex screws on bottom

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)

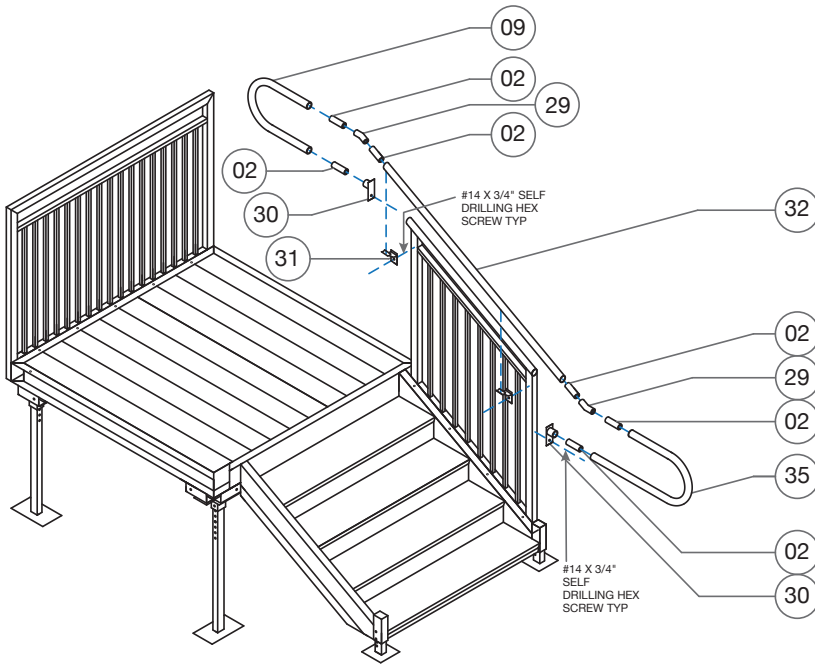
Select a **STEP HANDRAIL** and position it so the channel aligns with the **STEP** making sure the ends are flush and that the handrail channel is on top of the step channel. Mate the two channels together using a rubber mallet.

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).



- 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:

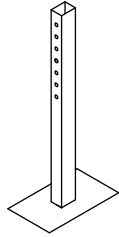
#14 x 3/4" self drilling hex screw

and attach the RAIL INSERTS using:

#10 x 3/4" self drilling phillips screws

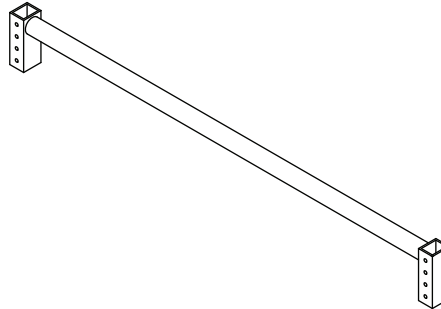
Close any open tubes on the RAIL with the CAPS.

16 exploded view ref. number



LEG FOR RAMP AND PLATFORMS
100000 12"
100001 24"
100002 36"
100003 48"
100062 HD

17



CROSSARM FOR RAMP
100012 48"

36



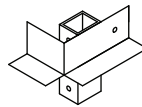
LEG STEP
FOR STEPS
100057 6"

14 15



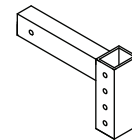
EXTRUDED BRACKET
FOR RAMPS
EB

21



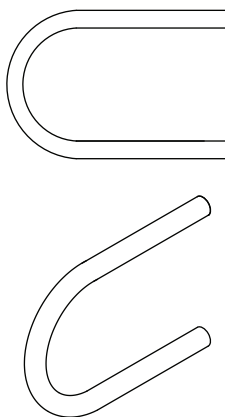
UNDER PLAT LEG ADAPTER
FOR PLATFORMS
100008R/L RIGHT AND LEFT

25



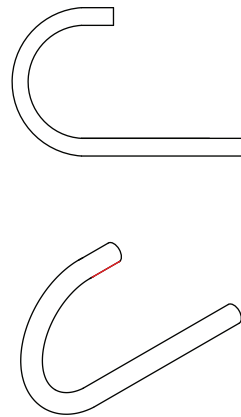
LEG T ADAPTER
FOR PLATFORMS
100007

09



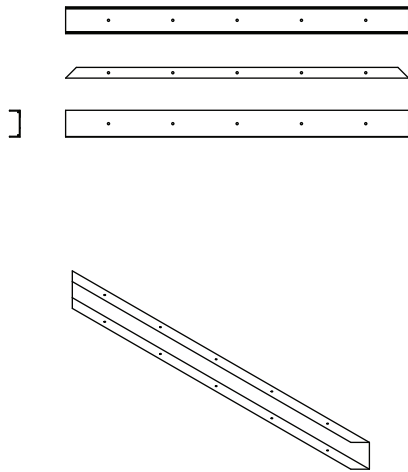
LOOP FOR RAMPS AND
STEP TOP 100033
1.66"D X 18.5"L

35



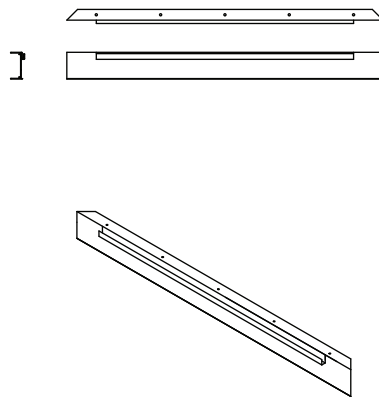
LOOP STEP BOTTOM FOR
STEP BOTTOM 100034
1.66"D X 22.25"L

28 exploded view ref. number

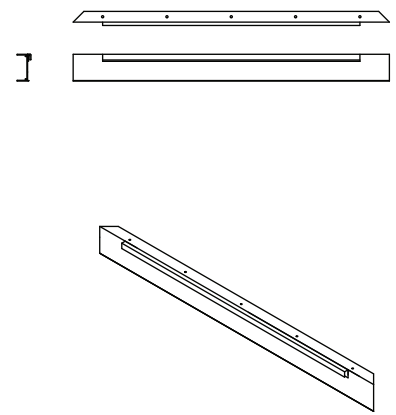


TOP ADAPTER
FOR ATTACHING PLATFORM TO BUILDING
100027 64"

23

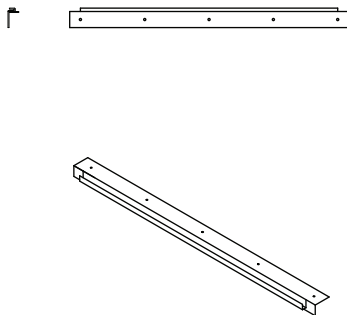


RAMP TO PLAT ADAPTER
FOR ATTACHING TOP OF RAMP TO PLATFORM
100016 59"

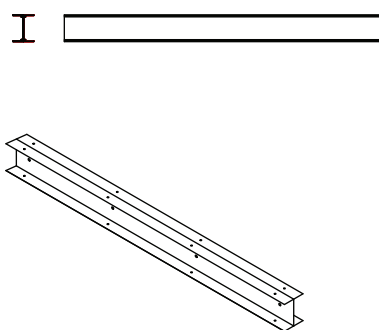


PLAT TO RAMP ADAPTER FOR
ATTACHING BOTTOM OF RAMP TO PLATFORM
100024 59"

24



RAMP TO PORCH ADAPTER
FOR ATTACHING TOP OF RAMP TO
EXISTING PORCH
100020 52"



I BEAM CONNECTOR
FOR JOINING TWO PLATFORMS TOGETHER
100029 60"

02 exploded view ref. no.



RAIL INSERT
FOR RAMP & STEP RAILS
1057
1.33"D X 4"L

07



LOOP CONNECTOR
FOR RAMP LOOPS
100047
1.66"D X 1.75"L

13



HANDRAIL CONNECTOR
FOR RETURNING GRASPING
HANDRAILS
100048 1.66"D X 5.5"L

30



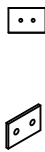
LOOP CONNECTOR
FOR STEP LOOPS
100036 1.66"D X 3.8"L

18



BRACKET ANGLE
FOR PLATFORM CORNER
GUARDRAILS
100049 1" X 1"

11

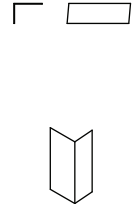


BRACKET GUARD
FOR PLATFORM GUARDRAILS
100050

10

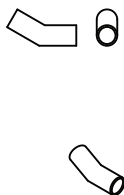


STRINGER CAP TOP
FOR RAMP
100032 2-1/2"



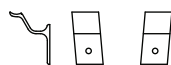
STRINGER CAP BOTTOM
FOR RAMP
100031 4-5/8"

29



LOOP CONNECTOR 30
FOR STEP LOOPS
100035 1.66"D X "L

03



HANDRAIL BRACKET
FOR RAMP
100043/4 RIGHT/LEFT

12



90 CASTING
FOR RAMP GRASPING
HANDRAILS
100046

31



HANDRAIL BRACKET
FOR STEPS
100060/1 RIGHT/LEFT

RAMP PACK: 100059

ZN03	#14 x 3/4" self drilling hex screw	50
ZJ03	#10 x 3/4" self drilling phillips screw . . .	15
X304	5/16 x 1" hex bolt	4
Z350	5/16 nut	4
X412	3/8 x 3" hex bolt	2
Z450	3/8 nut	2

STEP PACK: CAP.SXX

ZN03	#14 x 3/4" self drilling hex screw	8
ZJ03	#10 x 3/4" self drilling phillips screw . . .	28
X411	3/8 x 2-3/4" hex bolt	2 (XX-1)
Z450	3/8 nut	2 (XX-1)

* XX = number of risers

STARTER RAMP PACK: CAP.RMS

ZN03	#14 x 3/4" self drilling hex screw	50
ZJ03	#10 x 3/4" self drilling phillips screw . . .	15

PLATFORM PACK: CAP.PLM

ZN03	#14 x 3/4" self drilling hex screw	40
ZJ03	#10 x 3/4" self drilling phillips screw . . .	10
X412	3/8 x 3" hex bolt	8
Z450	3/8 nut	8

TOP PLATFORM PACK: CAP.PLT

X314L	5/16 x 4-1/2" lag bolt	4
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I BEAM PACK: CAP.PLC

ZN03	#14 x 3/4" self drilling hex screw	10
ZJ03	#10 x 3/4" self drilling phillips screw . . .	10
X422	3/8 x 5-1/2" hex	4
Z450	3/8 nut	4

DIAGONAL PACK: CAP.DIA

X404	3/8 x 1" hex	4
X410	3/8 x 2-1/2" hex	6
X416	3/8 x 4" hex	1
Z451	3/8 lock nut	4