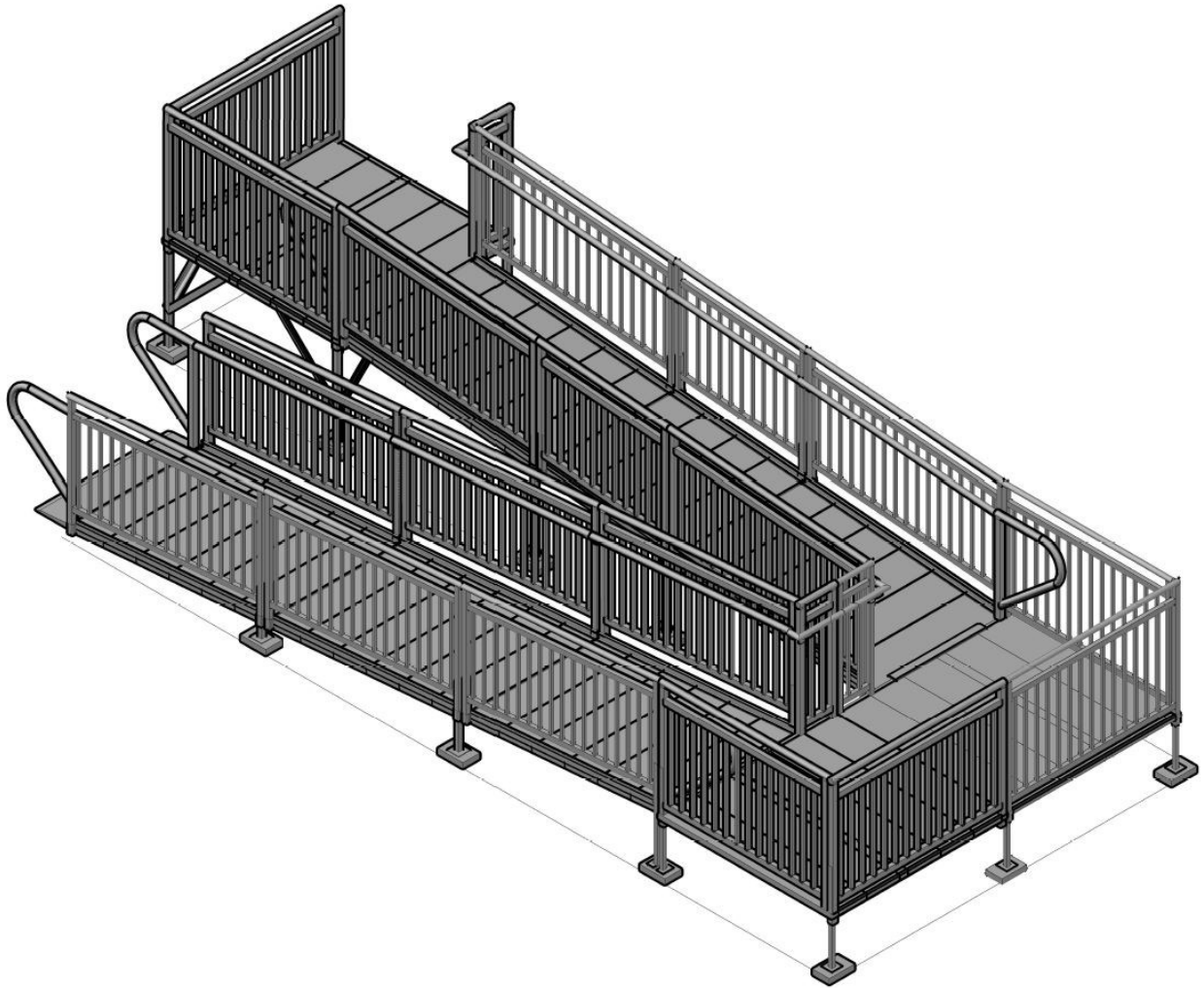




# American Access





# American Access

*Access What Matters Most*

## Entrada Series

**Commercial Ramp and Step System  
Installation Manual**



## Tool List

- Impact wrench—18V or 20V
- Drill—18V or 20V
- Reciprocating or circular saw (metal cutting blades) - 18V or 20V
- Electric hammer drill
- Ratchet
- 9/16—Socket
- 3/8” Nut driver bit
- #2 Phillips bit
- 3/16” masonry bit (if securing to concrete)
- Metal/wood drill bits
- Rubber mallet
- 30’ Tape measure
- 48” Level (optional 36” level for horizontal ramp leveling)
- Torpedo laser level (for finding ground variance)
- Concrete screws/anchors and asphalt bolts & L-brackets

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# Platform and Ramp Description

	DESCRIPTION
<b><u>Platforms</u></b>	
ES55TPR	Entrada Commercial Modular Platform 63"x63" Turn with 42" Picket Guard Rails
ES56TPR	Entrada Commercial Modular Platform 63"x72" Turn with 42" Picket Guard Rails
PSAGP55	Aluminum Ground Pad 63"x63" with 60" Transition Tread
<b><u>Ramp Sections</u></b>	
ES248PR	Entrada Commercial Modular Ramp 2'x48" with 42" Picket Guard Rails
ES348PR	Entrada Commercial Modular Ramp 3'x 48" with 42" Picket Guard Rails
ES448PR	Entrada Commercial Modular Ramp 4'x 48" with 42" Picket Guard Rails
ES548PR	Entrada Commercial Modular Ramp 5'x 48" with 42" Picket Guard Rails
ES648PR	Entrada Commercial Modular Ramp 6'x48" with 42" Picket Guard Rails
<b><u>Platform Guard Rails</u></b>	
63U Picket Guard Rail	42" Picket Guard Rail for 63"x63" Platform (63U is a 61.25" universal rail that can be installed on any side)
63S Picket Guard Rail	42" Picket Guard Rail for 63"x63" Platform (63S is a 63" rail that can be installed on the two standard sides)
72S Picket Guard Rail	42" Picket Guard Rail for 63"x72" Platform (72S is a 72" rail that can be installed on the two standard 6ft sides)
<b><u>Ramp Guard Rails</u></b>	
2ft Picket Guard Rail	42" Picket Guard Rail for 2'x48" Ramp Section (2 units per section)
3ft Picket Guard Rail	42" Picket Guard Rail for 3'x48" Ramp Section (2 units per section)
4ft Picket Guard Rail	42" Picket Guard Rail for 4'x48" Ramp Section (2 units per section)
5ft Picket Guard Rail	42" Picket Guard Rail for 5'x48" Ramp Section (2 units per section)
6ft Picket Guard Rail	42" Picket Guard Rail for 6'x48" Ramp Section (2 units per section)
<b><u>ACCESSORIES</u></b>	
TPCOM	Commercial Ramp Transition Plate 9.25" deep x 45.25" wide (connects platform to building)
TP	Modular Ramp Transition Plate, 9.5" deep x 35.5" wide (connects platform to threshold)
BPCOM	Commercial Ramp Bridge Plate Large, 3" deep x 45.25" wide (used where ramp and landing connect)
TT48	Modular Ramp Transition Tread, 12" x 48" wide angled tread (used as starter piece)
ESLOOP	Commercial Ramp Loop (left and right handed—installed at end of ramp and on platforms)
42" Single Post	Modular Platform 42" Corner Post with Caps
Closure Kit—Over Leg	Commercial Platform 42"high x 12-11/16" wide Closure Kit (used to close gap from corner post to ramp guard rail)
Closure Kit—Over Stabilizer	Commercial Platform 42"high x 11-3/16" wide Closure Kit Stabilizer (used to close ramp to leg over closure gap)
14" Insert	Modular Ramp Insert, 14" x 1.5 x 1.5" square tube (used in top leg sockets on ramps)
Supports (Legs)	Modular Platform and Ramp supports (legs—20", 30", 40", 50", 60", 70", 80", 90", 100", 110", 120", 130")
ASB	Modular Ramp Angle Support Bracket, 30" x 1.5" x 1.5" wide angle
HTDK	Modular ramp hurricane tie down
LRK	Modular ramp lightening rod
GRBRKT	Hand rail bracket for adult and child hand rail use
GRBTF	Hand rail by the foot for commercial use

# Hardware Package Description

**PHP**—Platform Hardware Pack (one per platform): used to install legs, guard rails, closure kits, and BPs.

- (3) 3/8" - 16—4.5" SS Bolt used for guard rail and closure kit connections
- (4) 3/8" - 16—.75" SS Bolt used to secure leg supports in corner sockets
- (3) 3/8" SS Nut
- (6) 3/8" SS Flat washer
- (11) #14 x 1" Tek screw—SS 3/8" hex head
- (16) 5/8" Black plug used to fill open bolt holes
- (2) U-channel rail and closure stabilizer used to secure bottom of loose rails

**RHP**—Ramp Hardware Pack (one per ramp section): used to install legs, inserts, and guard rails.

- (2) 3/8" - 16—5" SS Bolt used for guard rail to guard rail and ramp guard rail to platform guard rail connections
- (4) 3/8" - 16" .75" SS Bolt used to secure leg supports and inserts in lateral sockets
- (2) 3/8" SS Nut
- (4) 3/8" SS Flat washer
- (6) #14 x 1" Tek Screw—SS 3/8" hex head
- (2) 5/8" Black plug used to fill open bolt holes

**LHPC**— Loop Hardware Pack Commercial (one per loop): used to secure loops to ramp and platform guard rails.

- (2) 3/8" - 16—5" SS Bolt used to connect the top of the loop to the ramp and platform guard rails
- (2) 3/8" SS Nut
- (4) 3/8" SS Flat washer
- (2) #14 x 1" Tek Screw—SS 3/8" hex head
- (2) 5/8" Black plug used to fill open bolt holes

**90H**—90 Degree Hardware Pack (one per 90°): used to create a 90° connection from hand rail to hand rail.

- (1) Aluminum 90° elbow used to connect hand rail to hand rail
- (2) Aluminum insert used to connect the elbow to the hand rail
- (2) Black rubber O-ring—positioned in the middle of the insert and used as a spacer between the elbow and hand rail
- (4) 3/4" Tek Screw—SS Pan head phillips

**GBHP**—Hand Rail Hardware Pack (one per bracket): used to secure the hand rail brackets to the ramp and platform guard rails.

- (1) 3/8" - 16—2.5" SS Bolt used to connect hand rail bracket to guard rails
- (1) 3/8" SS Nut
- (2) 3/8" SS Washer
- (2) 3/4" Tek Screw—SS Pan head phillips

**RINSERT**—Round Inserts: used to connect hand rail to hand rail and hand rail to loops at the bottom of the ramp

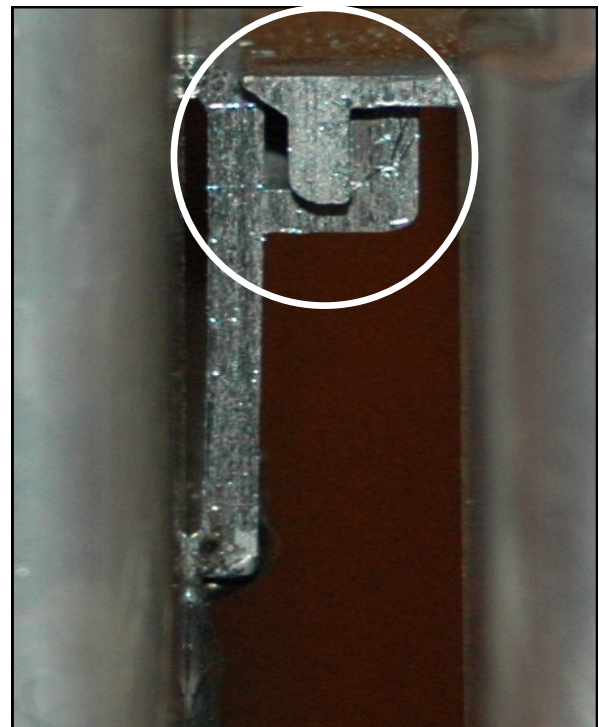
- (4) Aluminum insert used to connect hand rail to hand rail and hand rail to loops
- (4) Black rubber O-ring—positioned in the middle of the insert and used as a spacer between hand rails and bottom loops to hand rails
- (8) 3/4" Tek Screw—SS Pan head phillips

# Tongue and Groove Design

All platforms and ramps are manufactured with a **tongue** and **groove** design. This design is weight bearing, therefore eliminating the need for additional bracing, brackets, and in many cases ramp leg supports.



Our unique **tongue and groove** design offers the ease of being able to connect platform to platform (platforms will always tongue and groove when being paired together), platform to ramp, ramp to ramp, and ramp to stop and rest by simply placing the tongue (male end) into the groove (female end). Both ramp and platform sections are engineered with the tongue and groove located at opposite ends of the section. Ramp sections specifically, are engineered with the tongue being located at the top and the groove being located at the bottom .





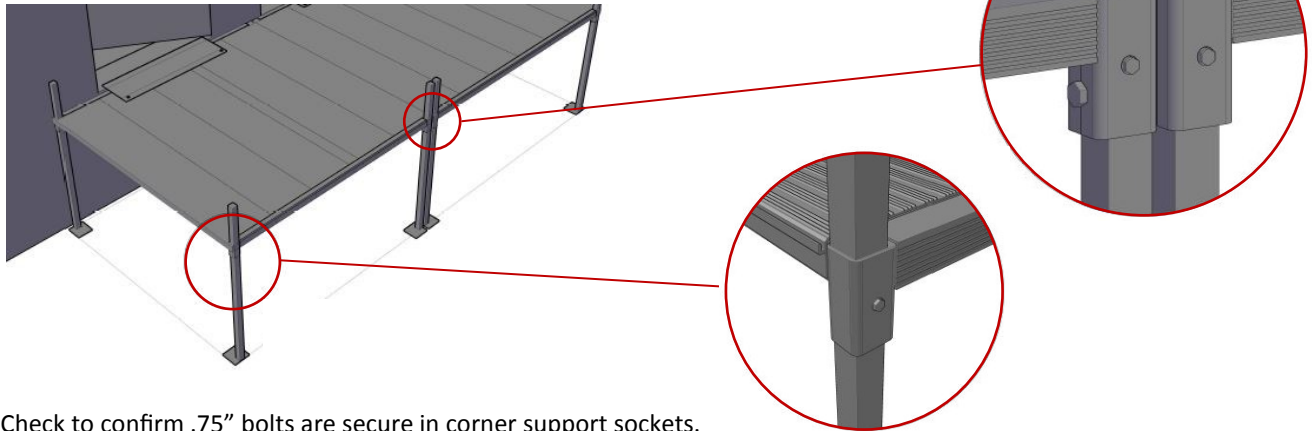
# Platform Assembly

Our standard platform sizes are 5' x 5' and 5' x 6'. Consult manufacturer for 4' x 5', 6' x 6', or any custom sizes.

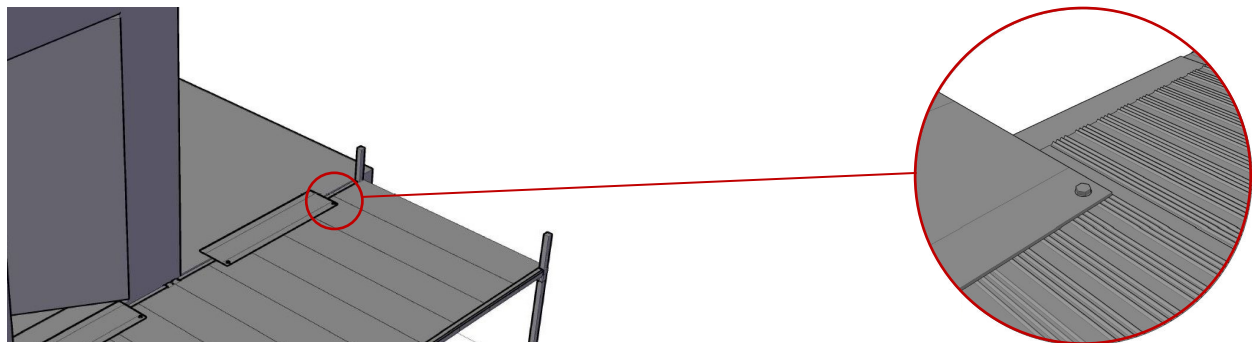
**Items needed for assembly:** Platform, proper length supports (legs), TPCOM/TP, PHP, Impact wrench, tape measure, level, 9/16" socket, 3/8" nut driver bit.

## Building to Platform

1. Determine the platform height required for the location and choose the correct support length
2. Insert support through corner socket. **Be sure to orient support where foot pad is facing toward the middle of the platform except where ramp supports and platform supports may potentially meet. In this case the foot pads are to face opposite directions.**
3. Secure support at approximate height using (1) .75" bolt —bolt holes are located on the side of the sockets, underneath the outside edge of the platform. **Ensure there is 10" minimum of support tubing extending above the walking surface of the platform. The guard rails will slide over the extended supports tubing.**
4. Position platform in final location with "groove" side facing the direction of the first ramp section or connecting platform, then make height and level adjustments as needed.



5. Check to confirm .75" bolts are secure in corner support sockets.
6. Assemble all platforms and supports in this manner. Guard rails and hand rails will be installed after all platforms and ramps are assembled and set.
7. Use a TPCOM (transition plate—commercial) or TP (transition plate) to connect the platform to the building threshold, porch, or existing surface using (2) #14 x 1" Tek Screws.



8. If securing other side TPCOM and/or TP to an aluminum or metal threshold—use (2) #14 x 1". If the threshold is wood, secure with wood screws (not offered in PHP). Use an L-bracket to secure the platform to the side of building if fastening to the threshold isn't an option. The L-bracket is to be mounted underneath the platform and then secured to the building using a lag bolt.
9. If securing TPCOM and/or TP to brick or concrete—use a 3/16" masonry bit to drill the necessary hole and secure using concrete screws. **Take caution against securing TPCOM/TP to close to the edge of a concrete or brick surface. The force of drilling holes or driving screws into the holes can crack the surface, causing damage.**

# Platform Assembly

## Platform to Platform

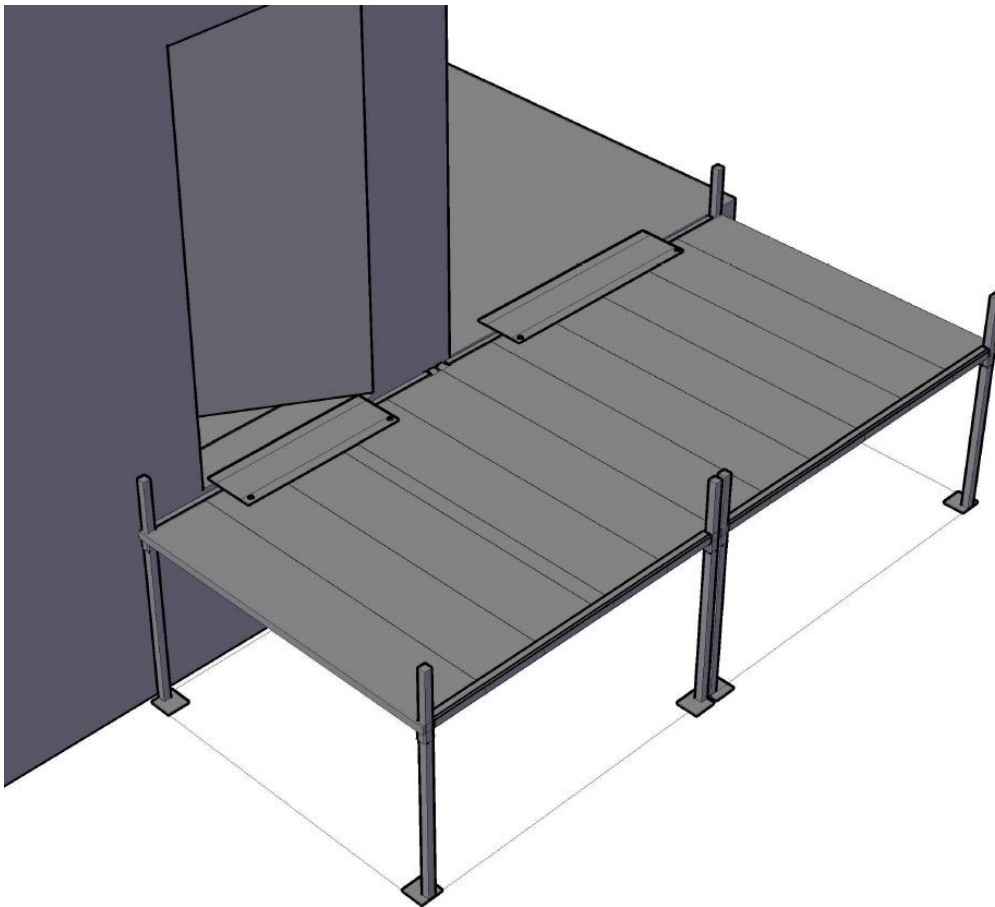
Our standard platform to platform configurations consist of [5' x 5' to 5' x 5'], [5' x 5' to 5' x 6'], [5' x 6' to 5' x 6']. Consult manufacturer for 4' x 5', 6' x 6', or any needed custom sizes.

**Items needed for assembly:** See page on platform to building.

1. Determine the platform height required for the location and choose the correct support length. **When connecting platform to platform, generally there will already be a platform or ramp set to the correct height from which to base the platform height being assembled. If not, see page on platform to building. Ensure there is 10" minimum of support tubing extending above the walking surface of the platform.**
2. Secure the supports of platform two at the approximate height of the already set platform one. **To make the connection to platform one easier: Secure the (2) supports on the "groove" side of platform two at the approximate height of platform one. Then raise the (2) supports on the "tongue" side of platform two until the foot pads are touching the bottom of the support sockets and lightly tighten. The raised supports will be lowered later.**
3. Place the "tongue" side of platform two into the "groove" side of platform one. (Platform one will support platform two. The "tongue" side supports on platform two will be lowered in the next step). Make height and level adjustments as needed. **Platform one and platform two need to be level and set at the same height.**
4. Once platform two is level and set, loosen the (2) .75" support bolts on the "tongue" side of platform two, let the support foot pads fall to the ground, retighten the (2) .75" support bolts, and the platform to platform connection is complete. **Always confirm the support bolts in the platform corner pockets are secure.**
5. Assemble all platforms to platform and supports in this manner. Guard rails and hand rails will be installed after all platforms and ramps are assembled and set.

**All guard rails and hand rails will be installed after all platforms and ramps are assembled and set.**

**For questions about what each part is and the purpose it serves, please see the platform and ramp description page as well as the hardware package description page.**



# Ramp Assembly

Our standard ramp sizes are 2', 3', 4', 5', and 6' sections. Ramps are available in 48" and 54" widths (clear width between curbs). Consult manufacturer for custom widths beyond 54". **All of the ramp sections are welded to meet a 1:12 pitch.**

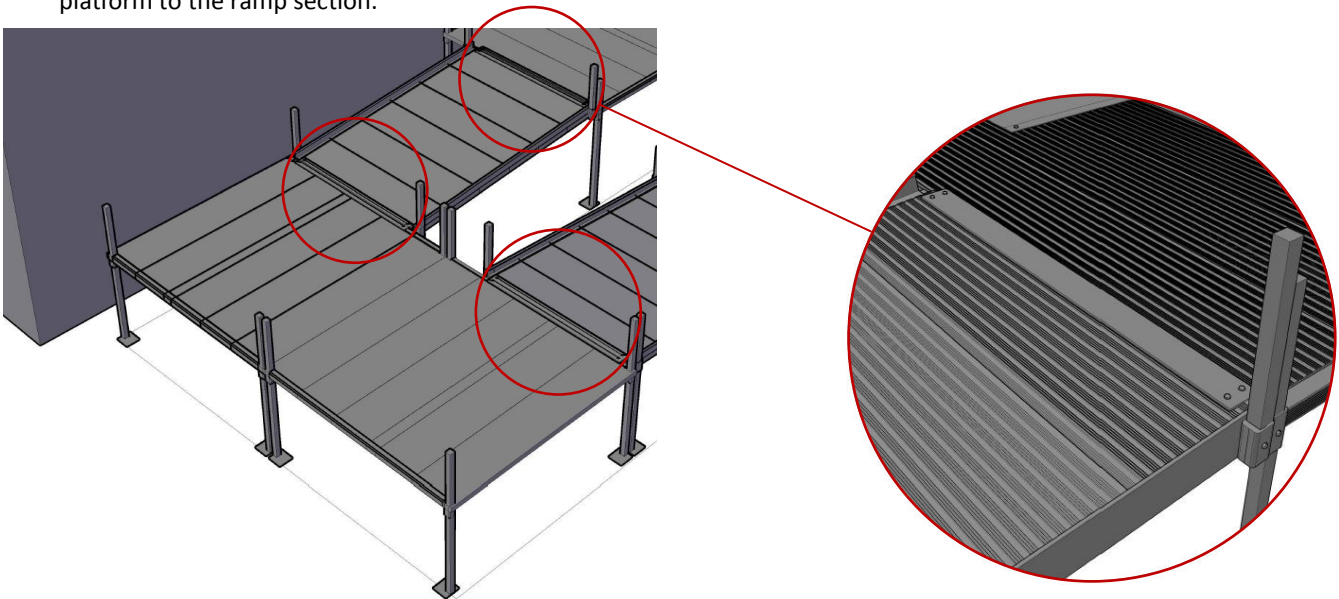
**Items needed for assembly depending on location of section:** Ramp section, proper length supports, 14" inserts, TT48, TPCOM, BPCOM, RHP, impact wrench, tape measure, level, 9/16" socket, 3/8" nut driver bit.

## Existing Landing/Deck/Porch to Ramp

1. Determine the ramp height required for the location and choose the correct support length. **A ramp section that comes directly from an existing landing will need (4) supports. Ensure there is 10" minimum of support tubing extending above the support sockets. The guard rails will slide over the extended tubing.**
2. Screw the .75" bolts into the support sockets located laterally on each side and both the top and bottom of section.
3. Insert supports into each socket, set at approximate 1:12 height and lightly tighten bolts. **Always position supports where the long end of the foot pad is facing the bottom (groove end) of the ramp section.**
4. Position ramp section in final location with the "groove end" always at the bottom. Make necessary slope adjustments, level horizontally, and firmly secure .75" bolts.
5. Use a TPCOM to secure ramp section to existing landing in the same manner as securing a platform.

## Platform to Ramp/Ramp to Platform

1. Assemble the ramp section in the same manner as described above. If using a "tongue and groove" connection with the platform, the ramp section will need (2) supports and (2) inserts.
2. Secure (2) supports in the bottom ramp sockets (groove end) at the approximate height to meet a 1:12 slope and 14" inserts into the top sockets (tongue end). **The bottom of the insert should be held flush with the bottom of the ramp socket while securing.**
3. Place the "tongue" at the top of the ramp section into the "groove" of the platform. **The groove of the platform is weight bearing and will support the weight of the top half of the ramp section.**
4. Position top of ramp section where the outside edge of the ramp tongue and platform groove are flush. **The ramp socket and corner platform socket should be aligned.**
5. Make necessary 1:12 slope adjustments, level horizontally, and firmly secure .75" bolts.
6. Use (4) #14 x 1" Tek Screws to secure the ramp to the platform via BPCOM.
7. If the ramp section is exiting a platform on a non-groove side (standard side), the section is considered a supporting section. A supporting section will need (2) supports in the top sockets and (2) supports in the bottom sockets. A BPCOM will be used to secure the connection between the platform and ramp.
8. When entering onto the standard side (non tongue and groove side) of a platform from a ramp section, the ramp "groove" should be flush with the surface of the platform. The bottom of the ramp section (groove end) will butt up against the platform. The ramp socket and corner platform socket should be aligned. Use a BPCOM to secure the platform to the ramp section.





# Ramp Assembly

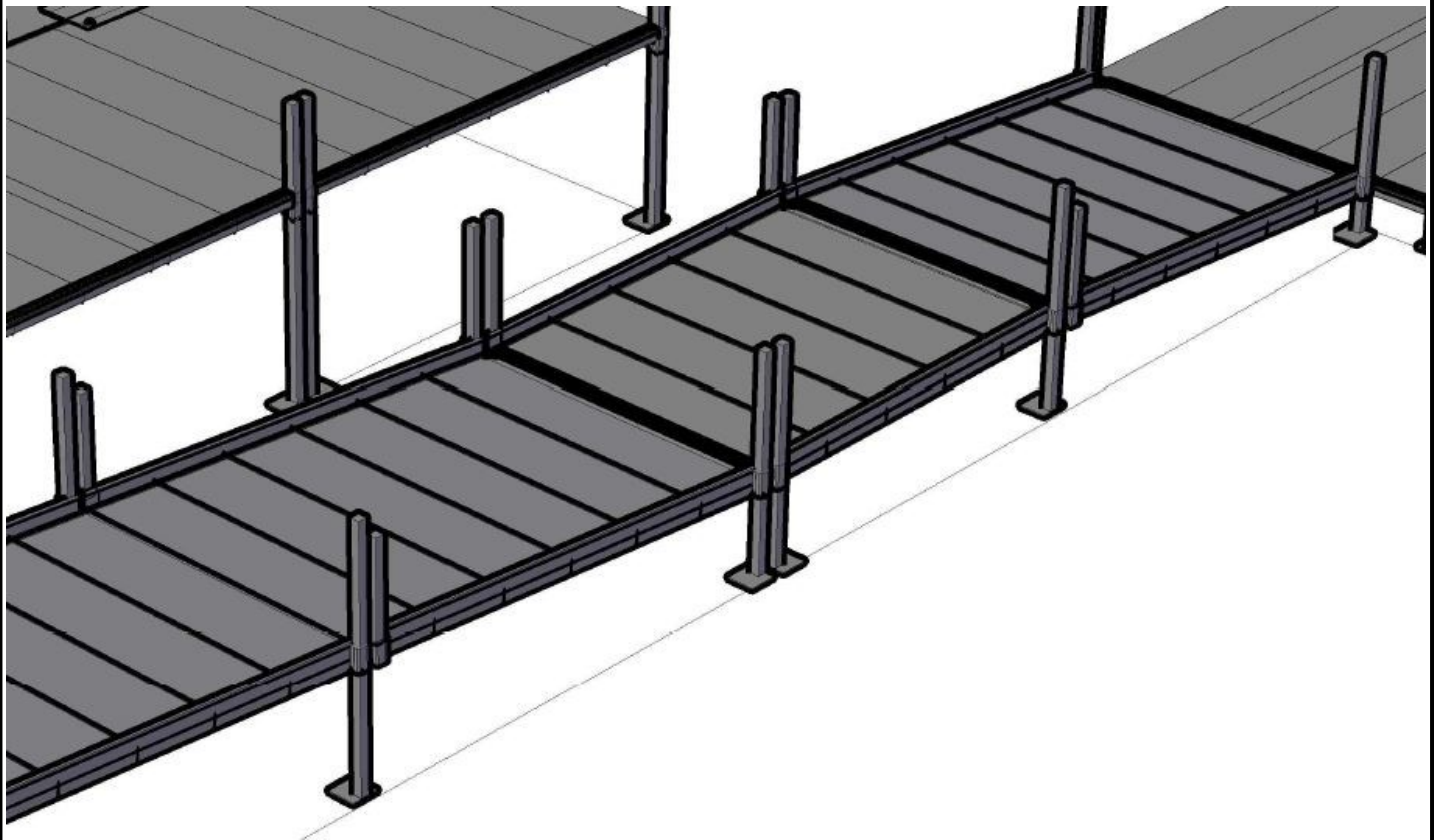
## Ramp to Ramp/Ramp to Stop & Rest

1. Assemble ramps in the same manner as described above. Use (4) legs if the section is a supporting section; use (2) legs and (2) 14" inserts if the section is being supported by "tongue and groove" design.
2. The lowest ramp section will always "tongue and groove" with the upper section of ramp.
3. Once the lower section is connected to the upper previous section, make necessary 1:12 slope adjustments, level horizontally, and firmly secure .75" bolts.
4. When arriving at the last section of ramp in the system, no supports will be used. (4) 14" inserts will be used in place of supports. The bottom of the section will fall directly on the ground.
5. The TT48 (48" transition tread—12" deep x 1" high) will slide from the side onto the "groove" part of the bottom of the last section of ramp. **Center the TT48 with the last section of ramp.**
6. Assemble the stop & rest (level landing after 30' of run) like assembling a platform. The stop and rest will be treated like a ramp section in relation to how a ramp section "tongue and grooves". At the top and bottom.

**All guard rails and hand rails will be installed after all platforms and ramps are assembled and set.**

**For questions about what each part is and the purpose it serves, please see the platform and ramp description page as well as the hardware package description page.**

**For proper installation of guard rails, all ramp section have to be set at a 1:12 slope.**



# Platform Guard Rails and Closures

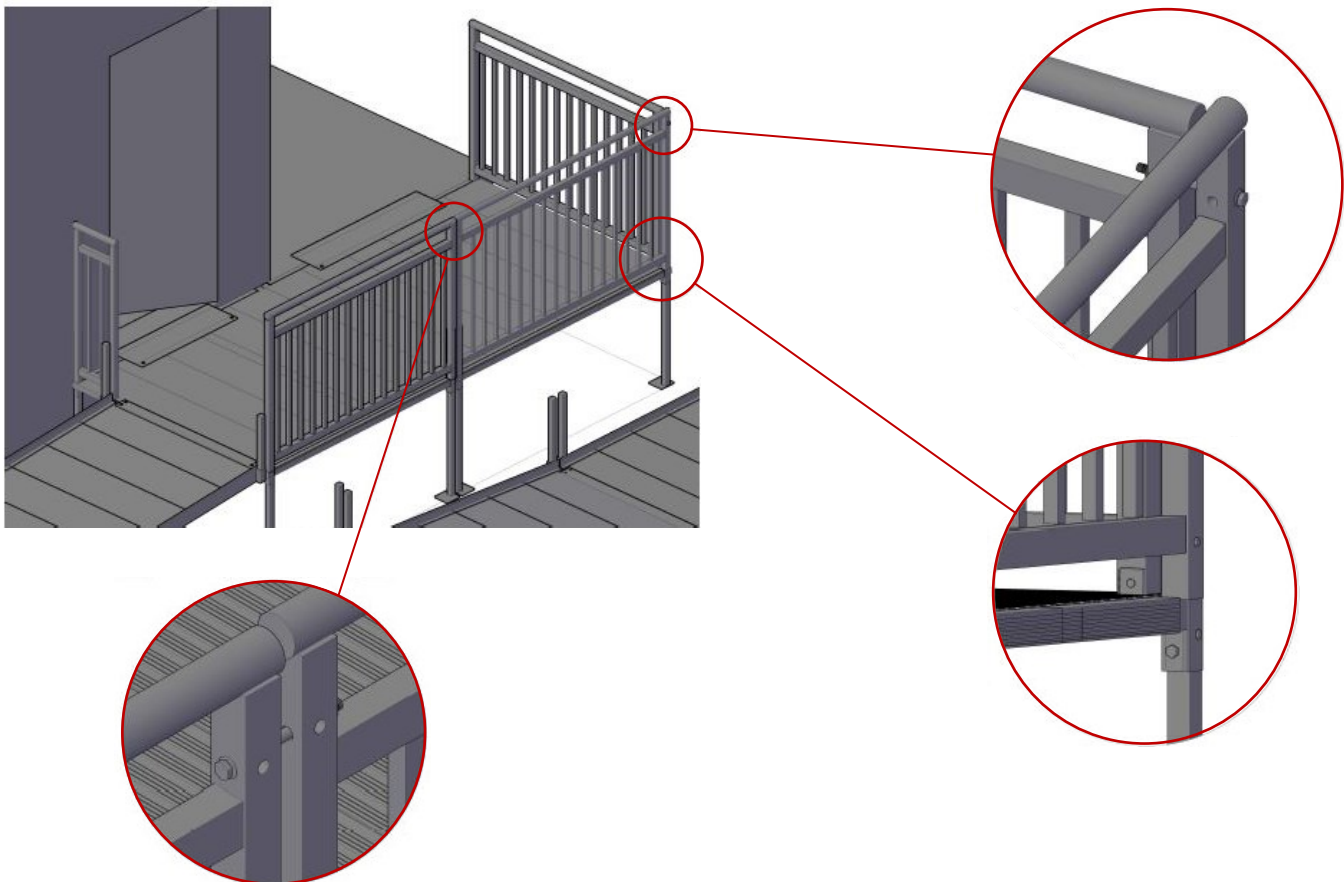
Our standard platform 42" high picketed guard rail sizes: 63U (61-1/4") Support to Stabilizer, 63S (63") Support to Support on any side, and 72S (72") Support to Support only on the 6' sides. Our standard 42" high picketed closure sizes: Support to Stabilizer (12-11/16") and Stabilizer to Stabilizer (11-3/16"). Consult manufacturer for 4' x 5', 6' x 6' or any custom guard rails and closures. **Platform guard rails will not have hand rail mounting holes. They will only have loop mounting holes.**

**Items needed for assembly:** Proper length guard rails, proper closures, PHP, Impact wrench, 3/8" nut driver bit.

## Platform Guard Rails

1. Determine the proper location for the 63U. **The 63U is our universal guard rail and will fit on any of the four platform sides. Be mindful of the pre-drilled loop mounting holes located on the outside uprights. The loop holes will always be on the end of the platform guard rail that connects to a ramp guard rail.**
2. Slide one end of 63U (support to stabilizer) over one corner support until it rest on top of the corner support socket and allow the opposite end to rest on the surface of the platform. **The end resting on the platform should be aligned with the adjacent support. One side of the 63U will always slide over a 10" piece of support tubing that extends above the walking surface of the platform and the other end will always rest on the platform. \*\*\*Never attempt to make a 63U slide over two corner supports—it will not slide over them and the supports will have to be cut off in order to free up the 63U.\*\*\***
3. Mount (1) stabilizer (u-shaped piece in PHP) - solid side out—to the surface of the platform where the 63U end is resting. Use a #14 x 1" Tek Screw to secure the stabilizer to the platform. **Be careful when mounting this piece. Hold secure while mounting to platform, as it can cut fingers and the hand if it starts spinning.**
4. Place the end of the 63U opposite the rail over support end into the stabilizer. The 63U guard rail has been installed.
5. Determine the proper location for the 63S. The 63S can be installed on any side from "support to support". **Be mindful of the pre-drilled loop mounting holes on the outside uprights. The loop holes will always be on the end of the platform guard rail that connects to a ramp guard rail.**
6. Slide the 63S "support over support" until both ends rest on the top of the corner support sockets. The 63S has been installed.

**Additional screws, bolts, and nuts will be added later to secure rails in place.**



# Platform Guard Rails and Closures

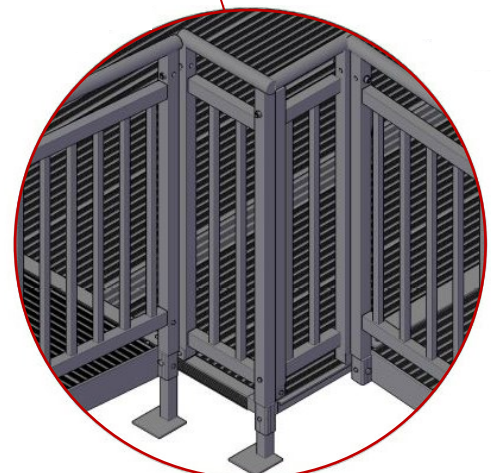
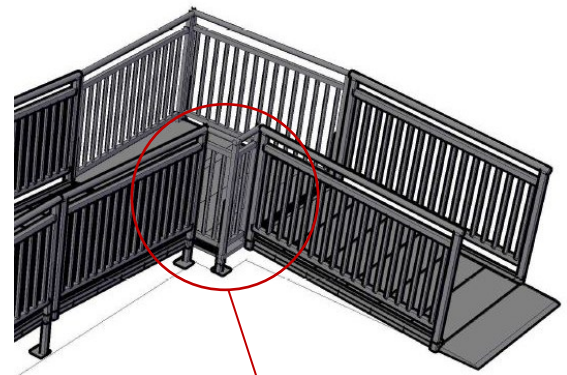
## Platform Closures

1. Which of the two closures is used will depend on whether the platform is a through platform, a platform turn, a 90° platform, or a 180° turn back.
2. The 12-11/16" closure (larger closure out of the two—support to stabilizer installation) will be used on all platform options. **It always mounts to the platform by sliding one end over a corner support and placing the other end into a stabilizer .**
3. Slide one end of the larger closure over a corner support until it rest on the top of the corner support socket. Let the opposite end rest directly on the walking surface of the platform. **The stabilizer end (end not over a corner support) of the closure will align vertically with the ramp guard rail. The end not over the support (stabilizer end) of the larger closure will attach to the platform via stabilizer.**
4. Mount the (1) stabilizer on the surface of the platform—solid side out— and place the closure end opposite the support into the stabilizer. **For stabilizer install instruction see #3 above. The larger closure (support to stabilizer), once installed, should run from a corner support to a stabilizer, aligning vertically with existing ramp guard rail.**
5. The 11-3/16" closure (smaller closure—stabilizer to stabilizer) will be used on a 90° platform and potentially on custom systems where needed.
6. Place the smaller (stabilizer to stabilizer) closure next to the existing larger closure creating a 90° angle at the corner of the platform where guard rails do not meet. **Use this time to determine the proper location of the stabilizers.** Remove closure and mount (1) stabilizer to the surface of the platform next to the base of the existing larger closure upright—solid side out. Then mount (1) stabilizer to the surface of the platform in front of the base of the existing ramp guard rail upright—solid side out.
7. Place each end of the smaller closure into the stabilizers. The 90° closure installation has now been completed.

**Additional screws, bolts, and nuts will be added later to secure rails in place.**

**The pre-drilled holes located in middle part of the closures are hand rail bracket mounting holes.**

**The pre-drilled holes located only in the top portion of the closures main vertical posts will align with the ramp guard rail holes.**



# Ramp Guard Rails

Our standard 42" high picketed ramp guard rail sizes: 2', 3', 4', 5', and 6'. We do not offer any length ramp guard rail outside of the aforementioned sections.

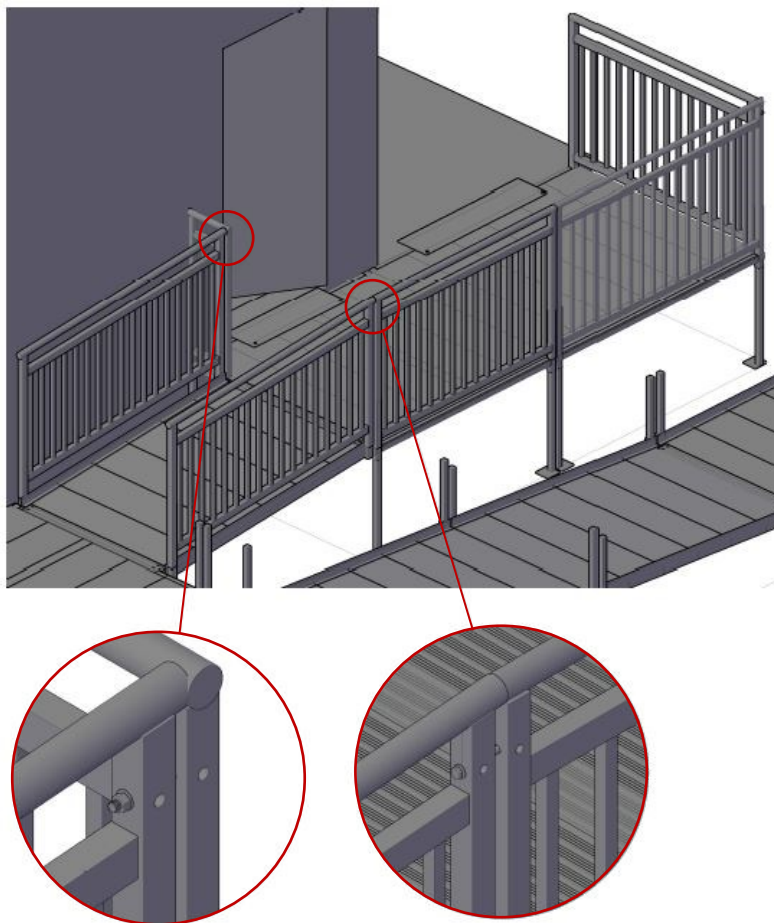
**Items needed for assembly:** Proper length guard rails and RHP.

1. Confirm that all ramp sections are set at a 1:12 slope before installing ramp guard rails. **Ramp guard rails are welded at a 1:12 slope to match the pre-welded slope of the ramp sections. If the ramp sections are not set at a 1:12 slope, the guard rails will not properly slide over the supports and inserts. The guard rails will also get into a bind or will have too much space between the ramp guard rail and platform guard rail, and the 5" bolts will not be long enough to secure the two guard rails together if the ramp sections are not set at a 1:12 slope.**
2. Determine the proper length guard rail based on the length of ramp section being worked on.
3. Slide each vertical post at either end of the guard rail over the support tubing and/or insert extending 10" above the ramp section support sockets until the guard rails rest directly on top of the ramp section support socket.
4. Each section of guard rail installed should align black cap to black and bolt hole to bolt hole with the previous guard rail.
5. Continue this procedure throughout the system until all ramp sections have guard rails.
6. When installing the last section of ramp guard rail, a right and left commercial loop will be installed on the inside vertical post at the bottom right and bottom left part of the last section of guard rail. **Use the hand rail bracket mounting hole to mount the commercial loop on the inside vertical post of the bottom last section of ramp guard rail.**

**Due to the ramp guard rails being welded at a 1:12 slope, they can only be installed one way. The high end of the rail will always be positioned at the top of the ramp section.**

**All ramp guard rails will come with pre-drilled hand rail bracket mounting holes located in the middle portion of the rail vertical post.**

**Additional screws, bolts, and nuts will be added later to secure rails in place.**





# Loops, Brackets, & Hand Rails

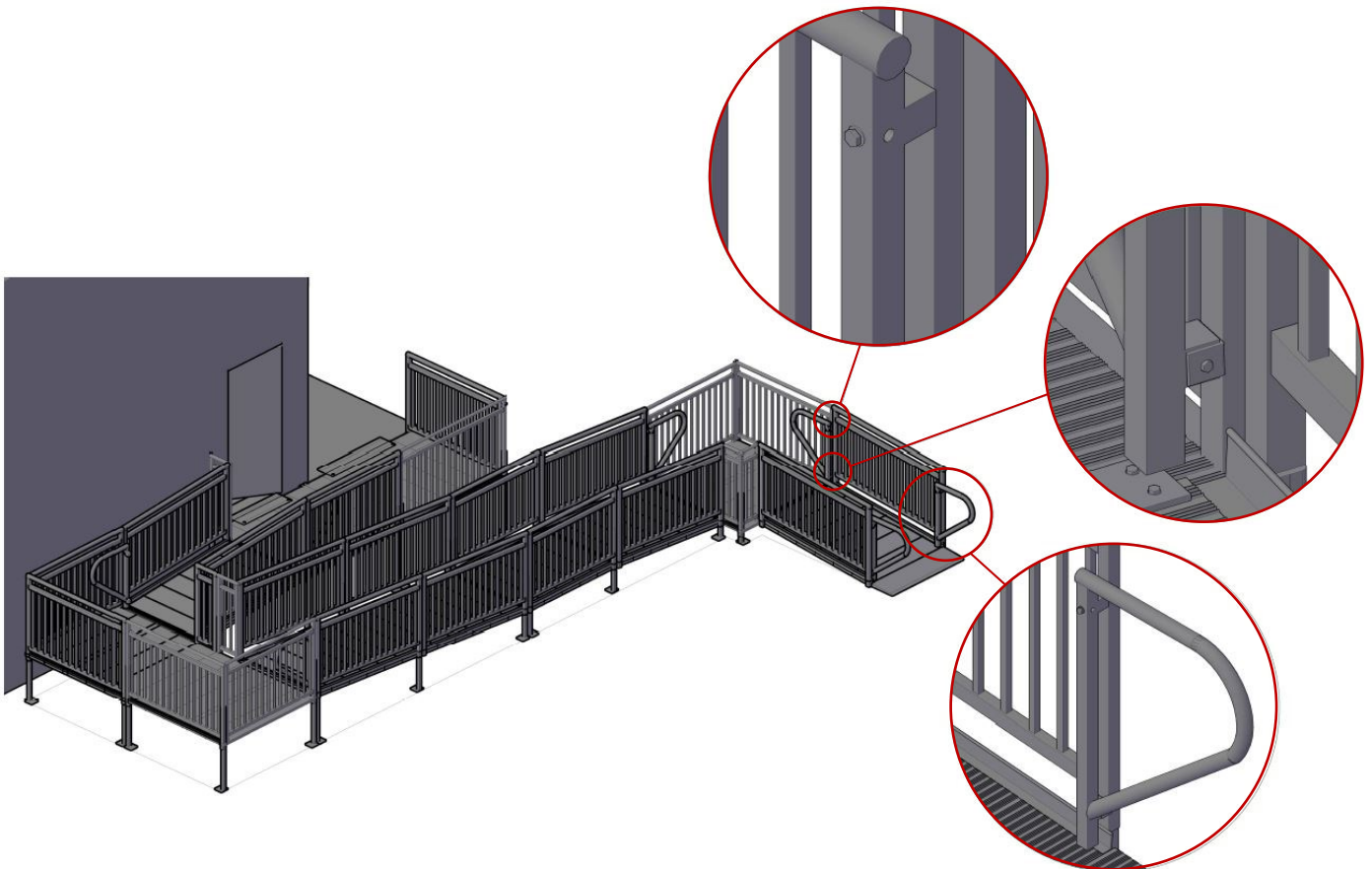
Our commercial loops come in right handed and left handed units. The hand rail brackets come as single units and will all be in one bag. Hand rails are available by the linear foot. Each ramp section and closure section will come with the proper length to match that specific section.

**Items needed for assembly:** Proper length hand rail, hand rail bracket, GBHP, 90H, RINSERT, right and left loops, LHPC, impact wrench, 9/16" socket, 3/8" nut drive bit, #2 Phillips bit, and circular saw or reciprocating saw with metal cutting blade.

## Installing Commercial Loops

**Commercial loops will be installed on platform guard rails and the bottom of the last section of ramp guard rails.**

1. Determine the proper handed unit that is to be installed and locate the bolt hole. **The bolt hole for the loops will be at the same height as the hand rail bracket bolt holes—approximately 28.5" from the base of the post.**
2. Place the welded spacer located at the top inside of the loop post over the bolt hole in the guard rail. Place a 3/8" SS washer on a 3/8" - 16—5" SS bolt and insert it into the loop post, through the spacer, through the guard rail post, until the threads stick out of the outside of the guard rail. Place a 3/8" SS washer over the threads and hand tighten with a 3/8" SS nut. **The loop is to face outward away from the end of the ramp and is to face inward toward the middle of the platform.**
3. Mount a stabilizer to the ramp or platform guard rail at the same height as the spacer located at the bottom of the loop. The stabilizer should be facing outward where the spacer of the loop will fit inside of the stabilizer. Use a #14 Tek Screw to secure the bottom loop spacer to the solid side of the stabilizer.





# Loops, Brackets, & Hand Rails

## Installing Hand Rail Brackets

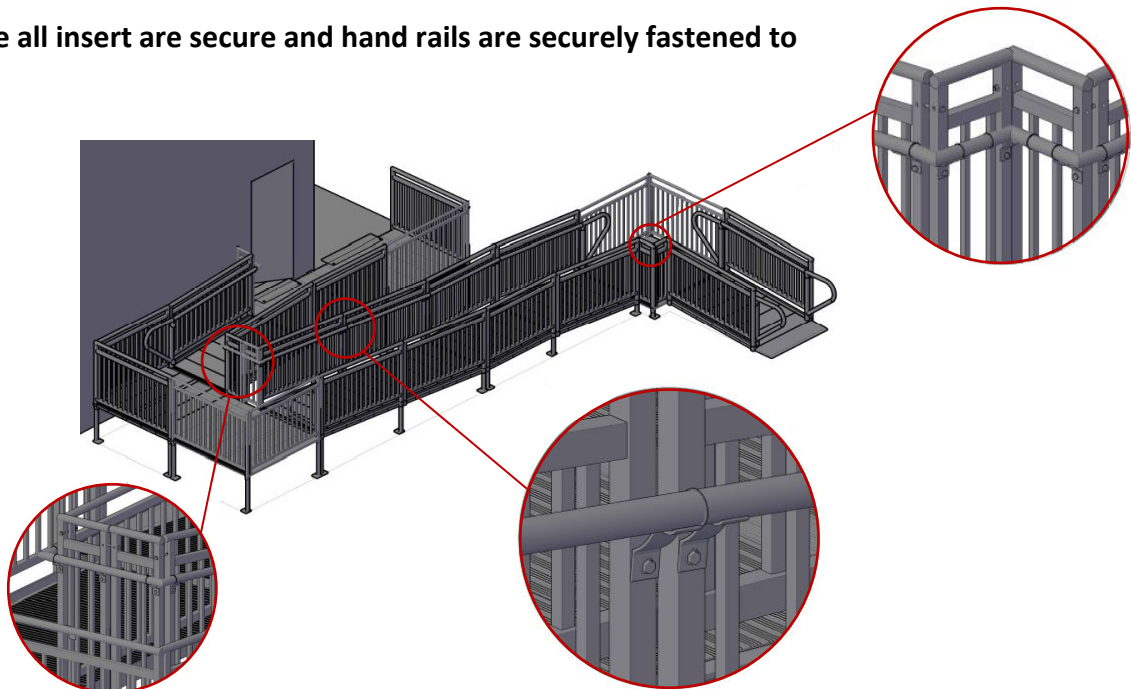
1. Each ramp guard rail has one pre-drilled bracket bolt hole on the vertical post, located approximately 28.5" from the base of the post. **Platform guard rails will not have bracket bolt holes unless specified for a custom order. Although the stop & rest is basically a platform, it will have (2) brackets mounted to the inside guard rail at each end of the stop & rest—totaling (4) brackets.**
2. Hold the hand rail bracket in place while threading a 3/8" - 16—2.5" SS bolt with washer through the bracket, through the guard post until the threads show on the outside of the post. Then hand tighten with washer and nut. **Each ramp section will have (4) brackets per section with the exception of the bottom/last section of ramp. It will only get (2) brackets. Remember the loops will be mounted to the last bolt holes on the bottom half the last section of ramp guard rails.**
3. Platform closures will also receive hand rail brackets. Turn back closures will get (1) bracket for one closure and (2) brackets for the other closure. Through platform closures and turning platforms will receive (2) brackets. 90° platform closures will receive (3) brackets.
4. Repeat this procedure on each ramp section and every closure until all ramp guard rails and closures are equipped with the proper amount of brackets.

## Installing Hand Rails

**Hand rail installation always begins with the loops at the bottom of the ramp and works up the system until complete.**

1. Take (1) 5" aluminum insert and place (1) black O-ring in the middle. Then slide the insert into the top opening of the loop. **This loop to hand rail connection is made only with the first loops of the system.**
2. Based off of the length of ramp section, determine the length of handrail. Slide the hand rail over the insert that was placed in the loop. **Place other end of hand rail on top of hand rail bracket to help support while securing.**
3. Place another insert with O-ring in the open end of the hand rail. Secure the handrail to the insert from the bottom of the hand rail with a Pan head Phillips Tek screw. **Be sure to secure the pan head through the handrail and insert at once. ALSO SECURE THE HAND RAIL TO THE BRACKET USING A PAN HEAD SCREW.**
4. Slide the second piece of proper length hand rail over the insert and secure with pan head screw.
5. Repeat this procedure on both sides of every ramp section. **Always secure the hand rails to the brackets with a pan head screw.**
6. At the top of a ramp run the hand rail will be capped off where it meets a platform loop.
7. To create a 90° turn with the hand rail, use the aluminum elbow with insert at each corner. The insert will connect the hand rail to the elbow and the elbow to the next piece of hand rail. Secure hand rail and elbow to insert with pan head screw.

**Always ensure all insert are secure and hand rails are securely fastened to**



# Final Hardware for Platforms and Ramps and ASB's

**Items needed for assembly:** Hardware that's left from RHP & PHP, Impact wrench, 9/16" socket, 3/8" nut driver bit.

## Final Platform Hardware

1. Slide (1) 3/8" - 16—5" SS bolt with (1) 3/8" washer through the bolt holes where the ramp guard rail end and platform guard rail end meet. Secure with (1) 3/8" washer and nut. Hand tighten. **A 5" bolt will always be used when connecting guard rails end to end (Ramp guard rail to ramp guard rail / Ramp guard rail to platform guard rail / platform guard rail to ramp guard)**
2. Slide (1) 3/8" - 16—4.5" SS bolt with (1) 3/8" SS washer through the bolt holes at corner of the platform guard rails where 63U and the 63S meet to create a 90°. Secure the bolt in place with (1) 3/8" SS washer and nut. Hand tighten. **Always ensure the bolt threads are facing in toward the guard and not toward the outside of the platform.**
3. Slide (1) 3/8" - 16—4.5" SS bolt with (1) 3/8" SS washer through the bolt holes where the closures meet to create a 90°, where a closure meets a platform guard rail to create a 90°, and/or where a closure meets a ramp guard rail to create a 90°. Secure the bolt with washer at these attachment points with a 3/8" SS washer and nut. Hand tighten.
4. Repeat this process on every platform until platform connections are complete.

## Final Ramp Hardware

1. Slide (1) 3/8" - 16—5" SS bolt with (1) SS washer through bolt holes from guard rail to guard rail. Secure with 3/8" SS washer and nut. Hand tighten.
2. Repeat this process throughout the system unilaterally, until each ramp guard rail is connected to the previous guard rail.

## Securing All Hardware

1. Start at the top of the system and use the impact wrench to secure all hand tightened hardware. Throughout the entire system
2. Place one hand over the bolt head and wrench down on the nut side with the impact wrench to securely tighten the bolts to the system.
3. Confirm all ramp and platform .75" bolts are securely in place by using the impact wrench.
4. Use the impact wrench to secure (1) #14 Tek Screw in each support socket that has a leg support (exclude inserts on ramp sections) **The Tek Screw will be screwed into the small hole located on the outside wall of the support sockets. Tek screw are to be used on ramp section sockets and platform sockets. This will ensure all supports are securely in place.**
5. Secure (1) Tek Screw into the outside surface of every other vertical post, starting at the bottom of the ramp system. **This will ensure all ramp and platform guard rails are securely in place.**

## ASB's Installation

1. Angle supports are used anywhere the rise of ramp or platform is above 30". Attach using provided Tek screws with angle facing the underside of the platform or ramp.



# Final Steps

## **Recommended Anchors for securing foot pads to surface**

For concrete, we recommend: <https://www.itwredhead.com/products/expansion-anchors/trubolt-plus> or comparable.

For asphalt, we recommend: <https://www.asphaltanchors.com/anchors> or comparable.

Following instructions supplied with anchors, install one anchor per foot pad.

**The products listed are for reference purpose only and do not constitute an endorsement of these products.**

## **Final Check of Installed System**

- Ensure that all hardware is in place and secure
- Walk on the installed system and check for any unstableness or loose rails.
- Remove any debris left from installation

### **\*\*Warning\*\***

- Failure to install according to these instructions will void the warranty and could result in serious injury .
- Do not exceed load rating
- In wet or icy conditions, ramp may become slippery. - See winter care for removing ice and snow

Periodically check system to ensure all hardware is in place and secure. If any hardware is loose, tighten immediately. If any piece is found damaged, do not use until repairs are made.



# American Access

## Care and Maintenance

The AMERICAN ACCESS Modular ramp system requires little or no maintenance to assure years of trouble free use. However, during the winter months, the question may arise as to the best way to keep snow and ice from accumulating on a ramping surface.

As with any ramp, snow and ice on a tread surface will cause it to become slippery under certain conditions such as icy or wet. It is our advice that the AMERICAN ACCESS Modular ramps be treated like you would any surface under those conditions. We recommend that any snow accumulation be shoveled and the tread surface swept clean.

The use of **Calcium Chloride** or **Magnesium Chloride** salt substitute may be used if the user is looking to melt any snow or ice that may have accumulated on the ramp. (See example product links below) These and similar products can be purchased at local retailers, hardware stores and building centers during the winter season. AMERICAN ACCESS does not endorse any ice melt product.

The metal construction of the AMERICAN ACCESS ramps will allow the tread surface to thaw at a quicker rate than other materials, a distinct advantage as wood or concrete ramps will tend to absorb moisture and freeze.

The extruded skid resistant surface of the AMERICAN ACCESS modular ramp will not be damaged or peel as winter shoveling and routine maintenance is performed, unlike grit tape or painted surfaces.

The winter months are difficult in all aspects of outdoor mobility, especially for those that require the use of a ramp. Caution should be used at all times and the proper maintenance and upkeep of the ramping surface is vital to its safe use.

<http://www.thomasregister.com/olc/43362235/qik-joe.htm>

<http://www.nasalt.com/products/icemelers/safestep.htm>

<http://www.live-wire.com/seasonal.htm>



The products listed are for reference purpose only and does not constitute an endorsement of these products.





## **Manufacturer's Limited Warranty**

American Access (herein referred to as manufacturer), warrants that this equipment shall be free from defects in material and workmanship under normal use and service for a period of 3-years from the date of original purchase. This limited warranty applies to the original purchaser only and is non-transferable. If a defect in material or workmanship arises and a valid claim is received within the Warranty Period, at its option and to the extent permitted by law, American Access will either (1) repair the defective material, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. This limited warranty is applicable to defective metal structure components only (excludes powder coated finish). No part of this warranty will apply to any equipment which has been subject to misuse, vandalism, negligence, alteration, improper loads, accident, improper installation or which has been repaired outside Manufacturer's place of business in any way as in the reasonable judgment of Manufacturer, to adversely affect its performance and reliability, nor to normal deterioration due to wear, tear and exposure, corrosion, or damage caused by rain, fire, earthquake or other natural causes or acts of nature.

Manufacturer's obligation and purchaser's sole remedy under this warranty is limited to, at Manufacturer's option, repairing or replacing equipment which is returned to its place of business and which, upon examination, shall disclose to Manufacturer reasonable satisfaction to have been defective. Manufacturer will make the repair or replacement of defective components as its own expense. If Purchaser discovers a defect, he/she must call Manufacturer at 888-790-9269 to request a Return Authorization (RA) to return the merchandise to Manufacturer.

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