ADA-COMPLIANT SAFETY DEVICES PRODUCT GUIDE

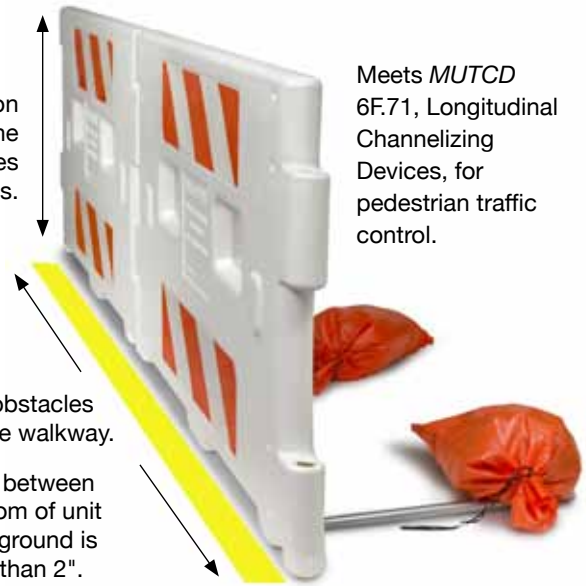
SafetyRail™ Barricade | SafetyWall™ Barricade | BoardWalk Temporary RAMP

SafetyWall™

ADA-COMPLIANT PEDESTRIAN BARRICADE

Ideal for creating accessible work zones. Use as sidewalk closure barricade or longitudinal channelizer.

SafetyWall is a continuous, interlocking device. Meets ADA guidelines and *MUTCD* 2009 Edition Standards as a sidewalk closure barricade or longitudinal channelizer. SafetyWall provides the same level of pedestrian guidance as concrete or plastic barrier, but is easier to transport, install and remove.



Continuous bottom for guidance with cane. Gap is less than 2", reducing potential for trapping cane tips.

SafetyWall is an interlocking device. Assembles quickly. No tools required.

1-2 person crew can easily create an accessible work zone in minutes.

SafetyWall measures 3" W x 36" H x 74" L and weighs only 35 lbs.

SafetyWall stacks for easy storage and transport.

Retroreflective sheeting meets all state and federal specifications, and is available in Engineer, Hi-Intensity and Diamond grades.

Made from high density polyethylene plastic with UV-stabilizers.

3M We use 3M Reflective Sheeting.

SafetyWall™

FEATURES AND SPECIFICATIONS

Product known as:
ADA-Compliant Pedestrian Barricade
Temporary Traffic Control Device
Pedestrian Channelizer Device
Longitudinal Channelizing Device
Type II Barricade
Temporary Pedestrian Access Route (TPAR) Device

Dimensions:
3" W x 36.25" H x 74" L

Weight:
35 lbs.

Material:
High-density polyethylene plastic (HDPE), with UV inhibitors

FHWA Acceptance Letter:
WZ-315

Crashworthy Status:
Tested to *Manual for Assessing Safety Hardware* (MASH) Guidelines, Test Level 3

Retroreflective sheeting meets all state and federal specifications. Available in Engineer, Hi-Intensity and Diamond grades.

Shown: SafetyWall, left, with SafetyRail Transition. For more information, see page 9.

FHWA Acceptance Letter WZ-315
US Patent No. D665,689.

Helps support pedestrians in the event of a fall.

Sections stack for easy transport and storage.

Legs fold in for easy storage.

Accepts Audible Information Devices and Warning Lights.

SafetyRail™

ADA-COMPLIANT PEDESTRIAN BARRICADE

Ideal for creating accessible work zones. Use as sidewalk closure barricade or longitudinal channelizer.

SafetyRail is a continuous, interlocking device, and meets ADA guidelines and *MUTCD* 2009 Edition Standards as a sidewalk closure barricade or longitudinal channelizer device.

Features an oversized sand-fill hole for added ballast.

Made from high density polyethylene plastic with UV-stabilizers.

Designed for use with PSS Wave® Guide Rail.

Retroreflective sheeting meets all state and federal specifications, and is available in Engineer, Hi-Intensity and Diamond grades.

Snap-in installation.
No tools required.

SafetyRail™

FEATURES AND SPECIFICATIONS

PSS Wave Guide Rail

Available in 4 or 6 foot lengths.

Encapsulated ends eliminate cane or hand snagging hazards.

The “Notch” design keeps guide rails in place.

Wave Guide Rail retroreflective sheeting meets all state and federal specifications. Available in Engineer, Hi-Intensity and Diamond Grades.

Available in unsheeted, or sheeted on one or both sides, in left, right or bi-directional configurations.

Product known as:
ADA-Compliant Pedestrian Barricade
Temporary Traffic Control Device
Pedestrian Channelizer Device
Longitudinal Channelizing Device
Type II Barricade
Temporary Pedestrian Access Route (TPAR) Device

Dimensions:
3.25" W x 38" H x 24" L at base

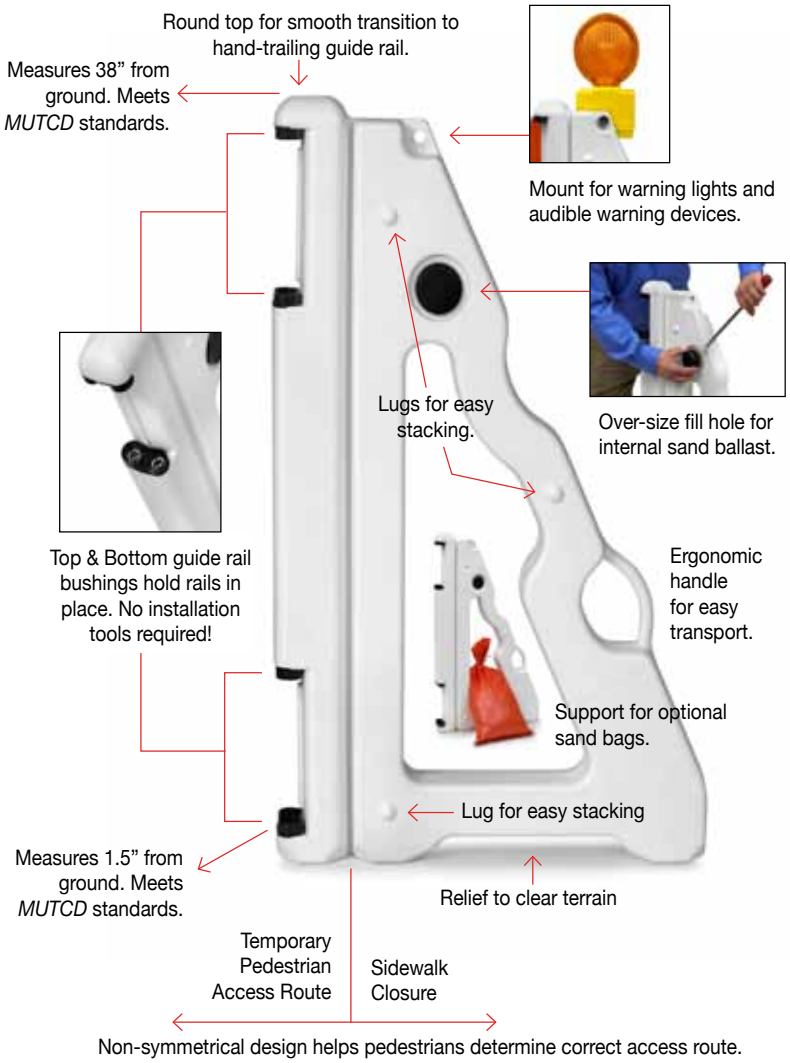
Weight:
7 lbs. empty.
Fill with up to 25 lbs. of sand

Material:
High-density polyethylene plastic (HDPE), with UV inhibitors

Crashworthy Status:
NCHRP-350, Test Level 3

FHWA Acceptance Letters:
SafetyRail Upright: WZ-278
Wave Panel: WZ-173

Used With:
Wave Guide Rail
0.8" W x 7.5" H x 48" or 72" L
High-density polyethylene plastic (HDPE), with UV inhibitors



3M We use 3M Reflective Sheeting.

FHWA Acceptance Letter WZ-278
US Patents Nos. 8,302,937; 7,536,973.

The BoardWalk RAMP

TEMPORARY PEDESTRIAN MODULAR RAMP

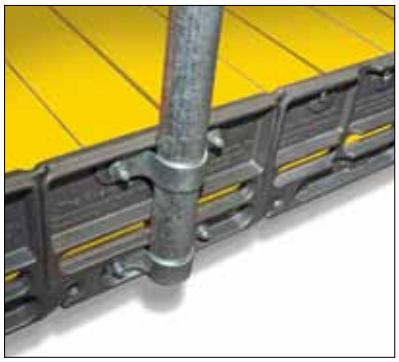
Provides accessible, detectable and safe guidance where access routes cross curbs.

ADA Compliant Benefits:

- Allows for any slope of 1" rise for 12" run.
- Modular Edge Support Castings provide guidance for use of canes and walking devices.
- PSS-supplied lumber has a slip-resistant surface.
- Suspended design allows for normal street drainage.
- Modular Edge Support Castings accommodate handrail assemblies.
- Approach Plates are 48" W x 18" L and feature slip-resistant grip tape.
- 4' width is wheelchair friendly.

Replaces curb transitions and temporary ramps that are non-compliant.

BoardWalk Ramp shown perpendicular to curb.



Modular Edge Support Castings accommodate handrail assemblies.

Each modular section consists of two Edge Support Castings and two boards.

The BoardWalk RAMP

TEMPORARY PEDESTRIAN MODULAR RAMP

FEATURES AND SPECIFICATIONS

BoardWalk Ramp shown parallel to curb, with optional Platform.

Modular sections connect for ramp length needed. No hardware required.

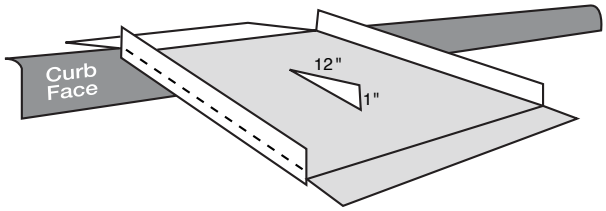
Modular Features:

- Modular sections connect for ramp length needed. No hardware required.
- Sections are portable at 30 lbs.
- Durable cast iron Edge Support Castings are 12" Wide x 8" High.
- Edge Support Castings designed for 2" x 6" slip-resistant lumber.
- Metal Approach Plates are 18" W x 48" L with slip-resistant grip tape.
- Ramp rated at 800 lb. capacity for 48" maximum width.

Purchase Options:

The BoardWalk Ramp is a modular device. Several purchase options are available.

Please contact your PSS Roadway Safety Consultant or PSS Customer Service for details.



BoardWalk RAMP has a maximum slope of 8%, or 1:12 ratio.

Modular sections assemble in less than a minute!

Patents Pending

SafetyWall™

ASSEMBLY INSTRUCTIONS

No hand tools required.

Always assemble SafetyRail onsite. Do not attempt to drag an assembled array to another location.

1. Transport SafetyWall to the Installation Site:

SafetyWall weighs only 35 lbs. A 1 or 2 person crew can easily transport a single barricade by hand.

SafetyWall features fork portals for fork lift transportation.

2. Unfold the legs of the 1st Device:

Place the 1st device at the beginning of the channelizer array, with its front facing the pedestrian walkway. Remember, the legs are on the back of the device.

Unsnap the legs, and swing them 90° from the unit, or as much as space allows.

3. Ballast with sandbags:

SafetyWall can function without ballast. For best performance, place at least 1 each 25 lb. sandbag on each leg.

4. Align the 2nd Device with the 1st:

Bring a 2nd device into place. Make sure both devices face in the same direction.

Align the male pins of the 2nd device with the female ends of the 1st.

5. Insert the Top Male Pin 1st:

Slowly insert the top male pin first, ensuring that the bottom pin is in line with the female end.

Complete the connection by inserting the bottom pin.

6. Unfold the legs and add Ballast:

Unfold both legs of the 2nd device; angle them in a degree similar to the 1st, or as space allows.

Add ballast to both legs.

Repeat the process, adding 1 device at a time, until the installation is complete.

SafetyWall™

ASSEMBLY INSTRUCTIONS

Attach SafetyRail, our other ADA-Compliant Pedestrian Barricade, to SafetyWall!

Attaching SafetyRail to SafetyWall Requires PSS Transition Wedge Kit and hand tools.

Front: SafetyWall on left, SafetyRail on right.

Back: SafetyRail on left, SafetyWall on right.

When attaching SafetyRail, the side of the wedge opposite its holes should always face the center of SafetyWall.

Use only 4' SafetyRail Wave panels.

1. Facing the front of the SafetyWall device, locate the upper and lower panel mounting holes on either side. Note they are partially molded through. Drill through mounting holes with a 5/16" diameter drill bit. Drill through from both sides.

2. Align the holes of the Transition Wedge with the bottom holes in SafetyWall.

3. Hold the wedge in place on the front side of SafetyWall. Align the 4' Wave panel with both the wedge and SafetyWall. The flange of the wedge should be in-between. The end of the panel should make full contact with the wedge.

4. Fasten the wedge and the panel to SafetyWall with the hardware provided. Fasten the hardware with the flush-mount nut on the pedestrian walkway side. Tighten “finger tight”.

5. For support, attach the bottom panel to the SafetyRail upright. (See our SafetyRail Assembly Instructions.)

6. Repeat the process for the top 4' Wave panel. Once both panels are attached to SafetyWall and SafetyRail, fully tighten the hardware with hand tools.

7. Cover the exposed notches of the panels with duct-tape, to reduce potential for snagging.

8. Continue to build a SafetyRail SafetyWall array as needed.

Mounting warning lights & audible devices requires PSS Light Mount and hand tools.

1. To mount warning lights or audible information devices, use the PSS Light Mount Kit, which includes flush-mounted hardware.

2. Attach PSS Light Mount using either top or bottom mounting holes. (Top holes for devices, bottom for batteries.) Always attach mounts to the back of SafetyWall, the construction side, so that the mounts do not interfere with hand or cane guidance.

3. Attach the light mount with the hardware provided. Fasten the hardware with the flush-mount nut on the pedestrian walkway side.

4. PSS does not manufacture or market warning lights or audible information devices. Follow light or device manufacturers’ recommendations for installation, maintenance and removal.

5. Note that the PSS Light Mount requires a 4½" tamper-resistant bolt and washer to attach lights or audible information devices.

6. Repeat the process wherever warning lights or audible information devices are required in the SafetyWall array.

SafetyRail™

ASSEMBLY INSTRUCTIONS

No hand tools required.

Always assemble SafetyRail onsite. Do not attempt to drag an assembled array to another location.

1. For a successful assembly: Attach the lower guide rail first!

2. Line-up the guide rail with the upright.

3. Insert the guide rail into the center of the bushing. The inserted end of the guide rail must rest flush against the back of the upright.

4. Secure the upper and lower notches of the guide rail with the bushing. Use the side of the bushing that is closer to the direction in which the barricade array will be built.

5. Turn the guide rail into a position perpendicular to the upright.

The guide rail should turn easily, without force. If the guide rail binds, do not force it to turn. Simply, reverse the process: disengage the guide rail, and start again.

6. At this point, the SafetyRail Barricade should look just like this.

7. Attach the 2nd Upright: Line-up the upright with the guide rails. Insert and center the guide rail, beginning with the lower guide rail. Make the guide rail flush with the back of the upright.

8. Secure the guide rail with the bushing. Use the side of the bushing closer to the upright already attached.

9. Turn the upright to the desired position.

Attach more Guide Rails and Uprights:

Line-up the guide rails with the 2nd upright, beginning with the lower guide rail.

Insert and center the guide rail in the bushing. Make the guide rail flush with the back of the upright.

Secure the guide rail with the bushing, in the same direction in which the barricade array will be built.

Turn the guide rail to the desired position, and then attach another upright.

Ballast Options: Use sand-bags, or fill SafetyRail with up to 25 lbs. of sand.

SafetyRail will accommodate Type A or C warning lights.

SafetyRail will also accommodate some audible warning devices. PSS does not manufacture or market warning devices.

The BoardWalk RAMP

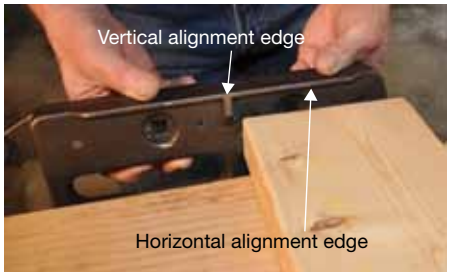
TEMPORARY PEDESTRIAN MODULAR RAMP

ASSEMBLY INSTRUCTIONS

Assemble Modular Sections using...
2 Edge Castings (1-Left / 1-Right).
2 painted boards and 8 Deck Screws (#10 x 3 1/8").
Use a cordless drill/drive with a t-25 Torx bit.

We recommend using Premium 2x6 spf lumber with minimum warpage. Paint boards first including a slip resistant additive.

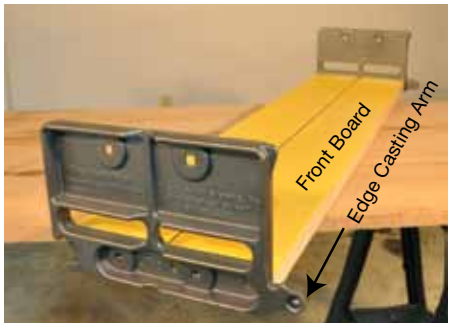
Boards must be cut with straight ends. Set a fixed stop so all boards are cut to a consistent length.



1. Lay the boards, painted side down, on the surface of a work table. Leave the ends of the boards stick out approx. 1" beyond the edge of the table. Hold the Left Edge Casting in position against the vertical and horizontal board alignment edge in the casting.

2. Drive 2 Deck Screws thru the countersunk holes in the casting into the end of the board.

3. Repeat the process with the second board aligning the board against the vertical board separator in the casting. Secure with 2 Deck Screws. Repeat the entire process on the other end of the boards with the Right Casting.
Repeat the above steps until all Modular sections are complete.

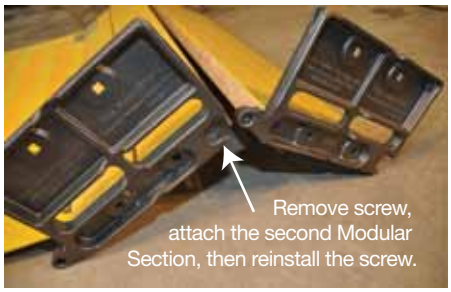


4. The complete assembled Modular Section. Edge Casting Arm protrudes past front board.

5. Align the short side of the Galvanized Tee-Hinge on the top surface of the Approach Plate. Secure all Tee-Hinges with ¼-20 UNC Pan Head Bolts and washers and Lock Nuts on the bottom side.

Make Ramp Top Assembly, and Ramp Bottom Assembly using Approach Plates with Galvanized Tee-Hinges and assembled Modular Sections. Press the Hinge Knuckle up against the face of the board.

Center and attach the Approach Plate to the assembled Modular Section Front board using #12 x 1" Pan Head wood screws – discard the Galvanized screws that came with the hinges.



6. We recommend that the first 2 Modular Ramp Sections be permanently attached to each other. Take the Top section and remove the back 2 Deck Screws (1 from the Left & 1 from the Right). Guide the Arms of the second Modular Section castings into the receivers of the first Modular Section. Now reinstall the 2 Deck screws thru the counter sunk holes in the Arms of the second Modular section.

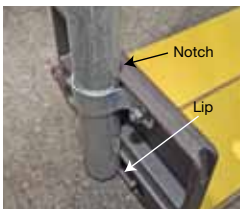
7. The completed Top Ramp Assembly will consist of 2 Modular Sections and Approach Plate.
Repeat to make a Ramp Bottom Assembly, attach an Approach Plate to an assembled Modular section Rear board.

Completed Ramp Assembly

8. To complete the installation of the Ramp, place the Top of the Ramp Assembly on the Curb with the second Modular Sections hanging off the edge of the curb. Now attach additional Modular Sections by lifting and inserting the casting Arms into the receiver slots. Continue this procedure as required making sure that the completed ramp is within the maximum slope requirement allowed – typically 8% slope (4.76°). Attach the Bottom of the Ramp Section (Modular Section with Approach Plate). The Temporary Ramp is now complete.
If the ramp is going to be left un-attended or for a long duration, attached the Top Modular section to the curb. Drill countersunk holes thru the wood boards and attach to curb with fastener.

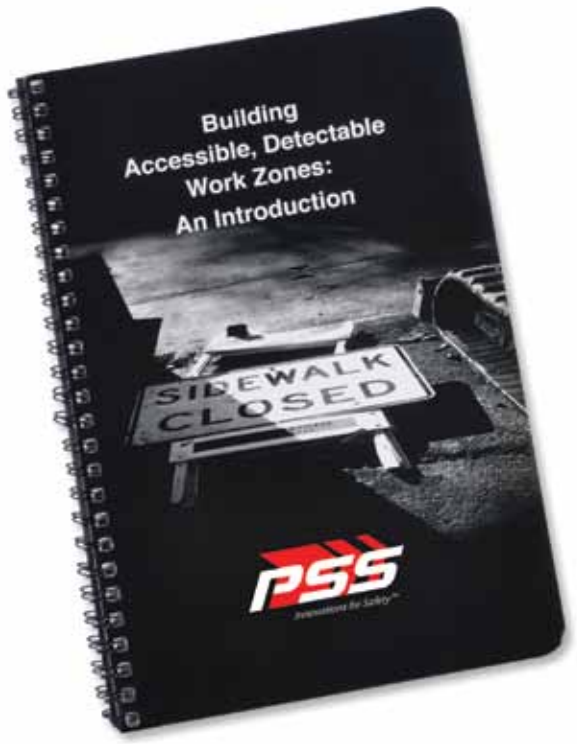
Hand Rails

Hand Rail Bolts

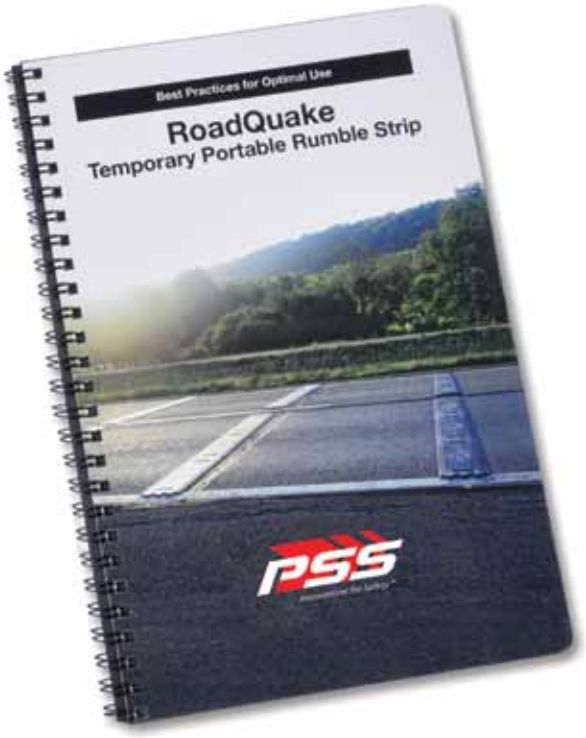


Rail pipe rests on Edge Castings bottom lip and nests in notch at top.

If using hand rails you must first place hand rail bolts on the inside of the Edge Castings (bottom 2 holes only) where the uprights are going to be attached then attach the wood boards. Attach the hand rails after the BoardWalk Ramp is completed.



Building Accessible, Detectable Work Zones



Best Practices for Optimal Use of RoadQuake TPRS

Please contact us for a complimentary copy of our guide books.

PSS

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