Installation Instructions



Victoria™ Series **ADA GRAB BARS**



Complete Kit

Anchor **PermaTile™ Rough-In**

Tile Thickness Range 5/32" – 1/2" (4mm – 13mm) Tile Substrates 1/2" Integrate into Substrate

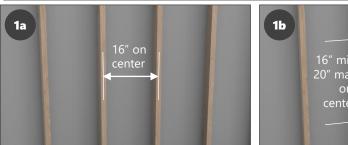


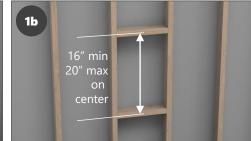
Instructions also apply to **Trim Only Kits** (sold separately)



Instructions also apply to **Rough-In Only Kits** (sold separately)

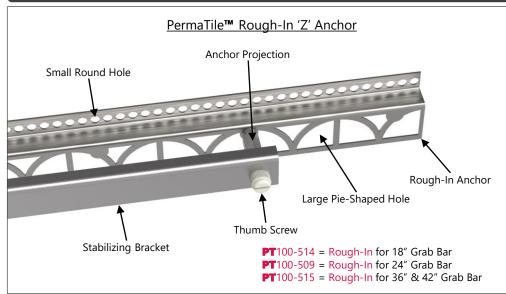
STEP 1 – Framing Requirements





- Horizontal or diagonal installs require stud walls to be 16" on center. [See 1a].
- · Vertical installs require additional structural framing. Additional framing should span vertical studs as illustrated. Spacing should be no less than 16" to a maximum of 20" on center, which assumes an anchoring position between 2 vertical studs. [See 1b].
- This system will attach to both wood and metal studs.

STEP 4 – Understanding Anchor Components

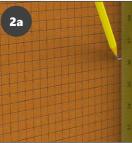


Each PermaTile™ Rough-In 'Z' Anchor is equipped with a stabilizing bracket. The bracket is a tool that guarantees that each grab bar will mount properly. The stabilizer is fixed to anchor projections with thumb screws.

- DO NOT INSTALL WITHOUT THE STABILIZER. Only remove stabilizer after thinset has met minimum cure times specified by manufacturer.
- Do not remove plastic thumb screws until after grouting they protect threaded anchor projections from being corrupted with thinset.

Each PermaTile™ Rough-In 'Z' Anchor is constructed from high-quality stainless steel. Each welded anchor projection is equipped with 10-24 internal threads (only one illustrated).

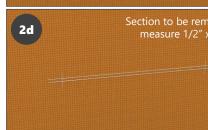
STEP 2 – Anchor Layout



- Apply suitable tile backer board Determine grab
- bar location, considering ADA placement, which is 33" to 36" from the finished floor

Use the anchor itself to mark vertical lines.

After determining where PermaTile™ Rough-In 'Z' Anchor will be located, mark substrate with 2 level horizontal lines. his first line represents the top of the actual grab bar. Mark second horizontal line 1/2" below.



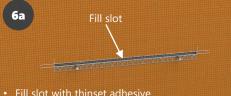
Technical Fact

PermaTile[™] Rough-In 'Z' Anchor will work with all 1/2" thick tile board substrates, including cement, fiber and foam-core materials. (only use materials that meet ANSI standards for tile applications).

STEP 5 – Securing Anchor in Slot



STEP 6 – Filling Slot with Thinset



- Use only latex modified mortars that meet ANSI A118.4 or A118.15 standards.

Do not fill slot with caulking adhesives or sealants.

Before filling slot, cover anchor projections with painter's tape to keep clean.

Press the thinset into the slot and large pie shaped holes using a margin trowe Rake flat and smooth against PermaTile™ Rough-In 'Z' Anchor.

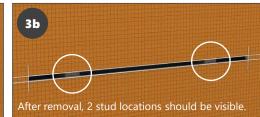
Technical Fact

When thinset is pressed into the slot, it expands through the small round holes, creating mechanical bonding points. When cured, this method provides a very strong and dense structural surface for waterproofing and tile.

Technical Support: (828)-322-9273 tilewareproducts.com | info@tilewareproducts.com

STEP 3 – Slotting Tile Board

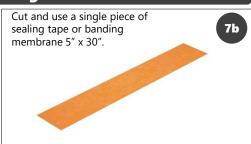




STEP 7 – Waterproofing Over Anchor



his will ensure that PermaTile™ Rough-In 'Z' waterproof membrane on all sides.



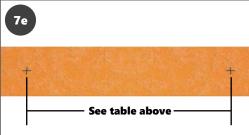


Layout cross-hatch locations using stabilizer and table to the right.

Grab Bar Length	Anchor to Anchor Center Dimensions	Anchor Length	Membrane Size
18"	12"	25-1/4"	5" x 30"
24"	18"	25-1/4"	5" x 30"
36"	24"	25-1/4"	5" x 30"
42"	24"	25-1/4"	5" x 30"



Use stabilizer as a straight edge to mark horizontal lines.

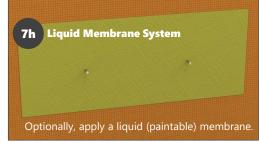


Cut precise 1/4" x1/4" cross-hatch slits with a utility knife so membrane can be stretched over anchor projections.

press into thinset using a 6" tape knife or suitable

Stretch membrane over anchor projections and

Caulk around base of anchor projection with a tile-approved waterproof sealant (use eithe a polyurethane-based or hybrid elastomeric o moisture cure polyether marine sealant



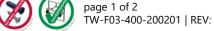


mooth around anchor projections.

Pro Tip

Before applying liquid membrane, wrap painter's tape around base of anchor projections. Keep the tape about 1/8" from wall.

To Install Trim Only See Reverse Side





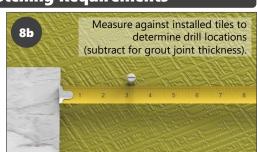
Installation **Instructions**

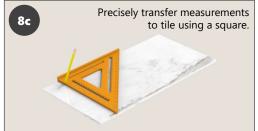


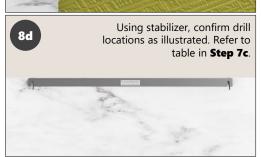
Victoria™ Series **ADA GRAB BARS**

STEP 8 – Drilling / Notching Requirements









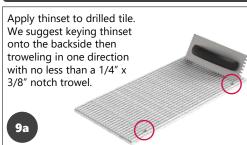
8e	Use the table to the right to determine the best diamond drill bit size.
	×
Make	selections in conjunction with tile size and cover washer requirements.

Drill Bit Size	Tile Format / Size	Cover Washer					
1/2"	Small format tiles – less than 12"	Optional See Technical Fact 1 & 2 below					
3/4"	Large format tiles – with one dimension longer than 15"	Required See Technical Fact 3 below					
3/4"	Thin or panel tile – tiles 5'x10'	Required See Technical Fact 3 below					

Technical Fact - When should I use cover washers?

- Always use when center of anchor projections land within 1" of a tile edge. Cover washers are not required when installing with small format tiles, but can be used if there is a drilling error or to achieve a desired look.
- Use when setting large format tiles. This allows for lateral movement around anchor projections so thinset ridges will collapse properly.

STEP 9 – Applying Thinset



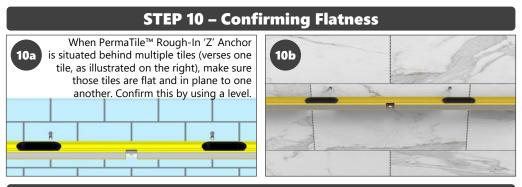




Use only latex modified mortars that meet ANSI A118.4 or A118.15 standards. Before installing tile over anchor, make sure sufficient thinset is around each drilled hole. This creates density and compressive strength when mounting

Technical Fact

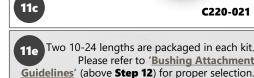
cover washers and rotating bushings with 10-24 screws. Notches or drilled holes should not exceed 1/2" when used without cover washers or 3/4" when used with cover washers.



STEP 11 – Attaching Cover Washers and Bushings



(rotates



6-32

Threaded





11g Outer bushing contains a 6-32 threaded hole. Position the 6-32 threaded hole downwards toward the floor. Note: this bushing orientation will change when installed diagonally or vertically.

Using a #2 Phillips screw driver, attach rotating

used as illustrated) using 10-24 stainless steel

Screws are patched to prevent threads from

Technical Fact

reversing or loosening.

bushing to anchor projection (and cover washer, if

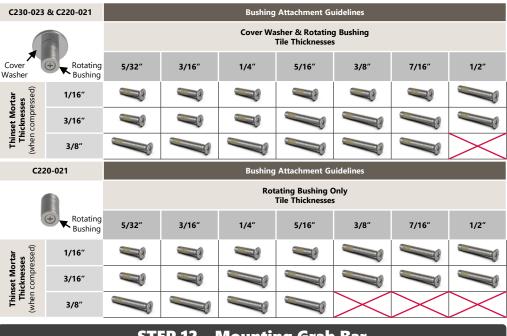
degrees. This

horizontally, diagonally or

vertically.

ensures grab bars can be installed

Rough-In 'Z' Anchor 1 per kit	2-1/2" Self-Drilling Screw 2 per kit	Rotating Bushing 2 per kit	1-1/4" Cover Washer 2 per kit	10-24 Screws Two lengths - 2 per kit	6-32 Set Screws 2 per kit
PT100-514 for 18" Grab Bar	C200-051	C220-021	C230-023-FINISH	C200-015 = 10-24 x 3/4"	C200-011 for PC & BN
PT100-509 for 24" Grab Bar					
PT100-515 for 36" & 42" Grab Bar			•	The same of the sa	Q
				Stainless Steel	Stainless Steel
				C200-027 = 10-24 x 1-1/4"	C200-012 for BLK & ORB
		Stainless Steel		C.	
Stainless Steel	Stainless Steel	PATENT PENDING	Stainless Steel	Stainless Steel	Stainless Steel
	1 per kit PT100-514 for 18" Grab Bar PT100-509 for 24" Grab Bar PT100-515 for 36" & 42" Grab Bar	1 per kit 2 per kit PT100-514 for 18" Grab Bar C200-051 PT100-509 for 24" Grab Bar PT100-515 for 36" & 42" Grab Bar	1 per kit 2 per kit 2 per kit 2 per kit	1 per kit 2 per kit PT100-514 for 18" Grab Bar C200-051 C220-021 C230-023-FINISH PT100-509 for 24" Grab Bar PT100-515 for 36" & 42" Grab Bar Stainless Steel	1 per kit 2 per kit Two lengths - 2 per kit PT100-514 for 18" Grab Bar C200-051 C220-021 C230-023-FINISH C200-015 = 10-24 x 3/4" PT100-515 for 36" & 42" Grab Bar PT100-515 for 36" & 42" Grab Bar Stainless Steel C200-027 = 10-24 x 1-1/4"



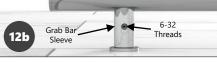
STEP 12 - Mounting Grab Bar



Pro Tip After confirming alignment, take a permanent marker and draw a line across the top length of each rotating bushing (both inner and outer components). Securely torque the 10-24 screws using a #2 Phillips (only use a hand screwdriver). The objective is to keep the lines from separating as you tighten.

After bushings are aligned and tightened,

Confirm that 6-32 threads in bushings are situated in the center of the grab bar sleeve. When this alignment is achieved, remove grab bar and tighten bushings completely with a #2 Phillips.



C200-011 for PC & BN C200-012 for BLK & ORB

12c

Using a #2 Phillips, secure 6-32 stainless set screws to threaded holes in bushings.

6-32 Set Screw

Tighten each 6-32 stainless set screw snuggly.

slip grab bar over bushings.



(only use a hand

screwdriver)

Congratulations! Installation is now complete. Thank you for using our products!

We would like to invite you to leave an unbiased review or feedback and share your experience with others.

Facebook: https://www.facebook.com/TilewareProducts/ Instagram: https://www.instagram.com/tileware_products/



