Installation **Instructions**



Victoria™ Series **ADA GRAB BARS**

Anchor



Complete Kit

PermaTile™ Rough-In

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

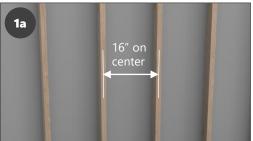


Instructions also apply to **Trim Only Kits** (sold separately)



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

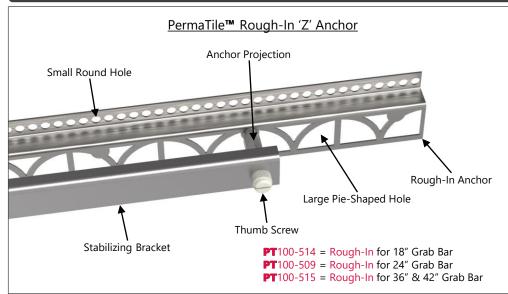
STEP 1 – Framing Requirements





- 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.

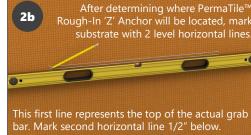
- DO NOT INSTALL WITHOUT THE STABILIZER. Only remove stabilizer after thinset has met minimum cure times specified by manufacturer.
- Do not remove plastic thumb screws until after grouting they protect threaded anchor projections from being corrupted with thinset.

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

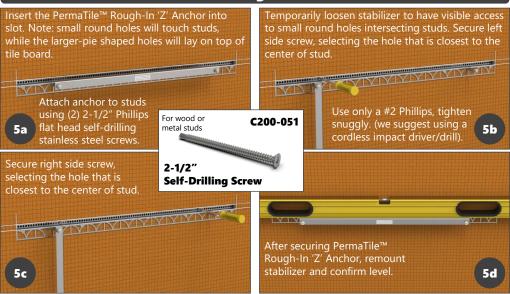


Use the anchor itself to mark vertical lines.

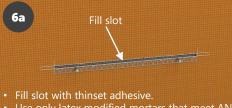
Technical Fact

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



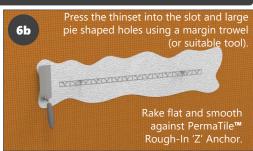
- Use only latex modified mortars that meet ANSI A118.4 or A118.15 standards.

Do not fill slot with caulking adhesives or

sealants.

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



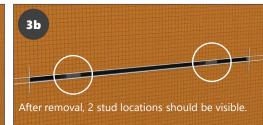
Technical Fact

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.

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STEP 3 – Slotting Tile Board

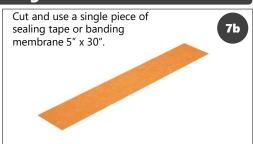




STEP 7 – Waterproofing Over Anchor



his will ensure that PermaTile™ Rough-In 'Z' Anchor is bedded with a minimum of 2" of waterproof membrane on all sides.



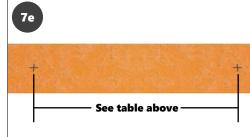


Layout cross-hatch locations using stabilizer and table to the right.

Grab Bar Length	Anchor to Anchor Center Dimensions	Anchor Length	Membrane Siz
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"



Pro Tip 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 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

Stretch membrane over anchor projections and



Sheet Membrane System After dispensing, use your index finger to tool

Pro Tip

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











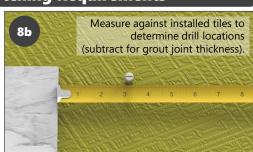
Installation **Instructions**

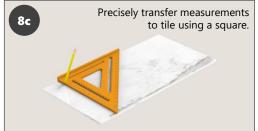


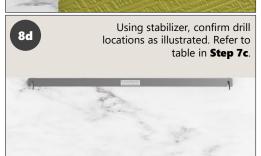
Victoria™ Series **ADA GRAB BARS**

STEP 8 – Drilling / Notching Requirements









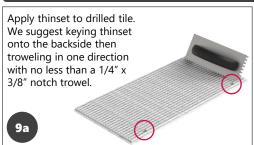
8e	Use the table to the right to determine the best diamond drill bit size.
	×
	* 1 3 3 J
Make	selections in conjunction with tile size and cover washer requirements.

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.

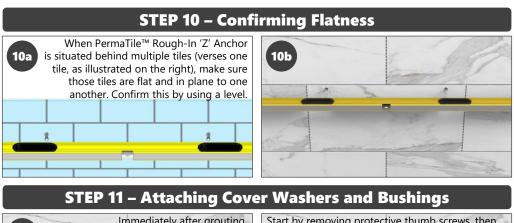
STEP 9 – Applying Thinset

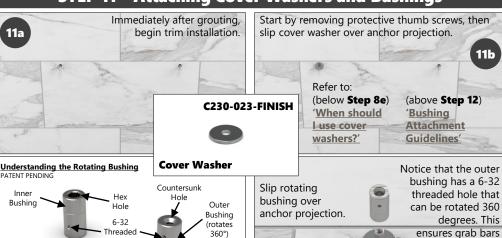






Technical Fact Use only latex modified mortars that meet ANSI A118.4 or A118.15 standards. Before installing tile over anchor, make sure sufficient thinset is around each drilled hole. This creates density and compressive strength when mounting cover washers and rotating bushings with 10-24 screws. Notches or drilled holes should not exceed 1/2" when used without cover washers or 3/4" when used with cover washers.

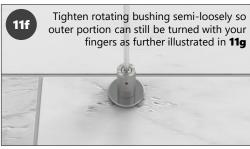




C220-021



C200-015 C200-027 10-24 x 3/4" 10-24 x 1-1/4" For Standard For Thicker Build-up Build-up



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

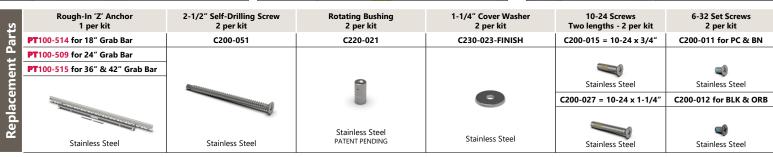
reversing or loosening.

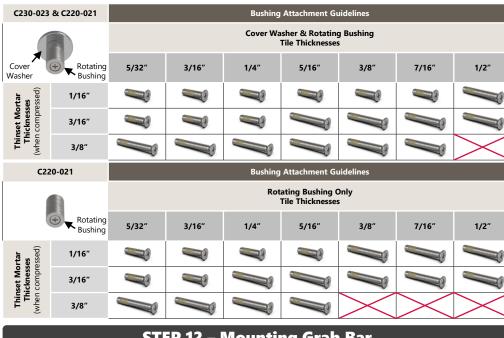
bushing to anchor projection (and cover washer, if

can be installed

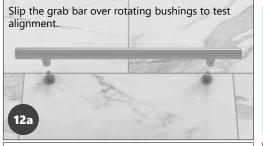
horizontally, diagonally or

vertically.





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,

slip grab bar over bushings.

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.



(only use a hand

screwdriver)

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

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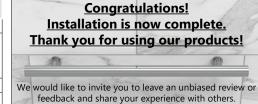
C200-011 for PC & BN C200-012 for BLK & ORB

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6-32 Set Screw

Tighten each 6-32 stainless set screw snuggly.

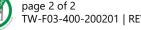












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