

## The FLOOD BARRIER DESIGN AND INSTALLING GUIDE FOR SIDE WALL MOUNTED

### PROJECT BRIEFING:

This is a demonstration to show how to mount our flood barrier on side wall with central posts applied. You will find both of our barriers in this guide.

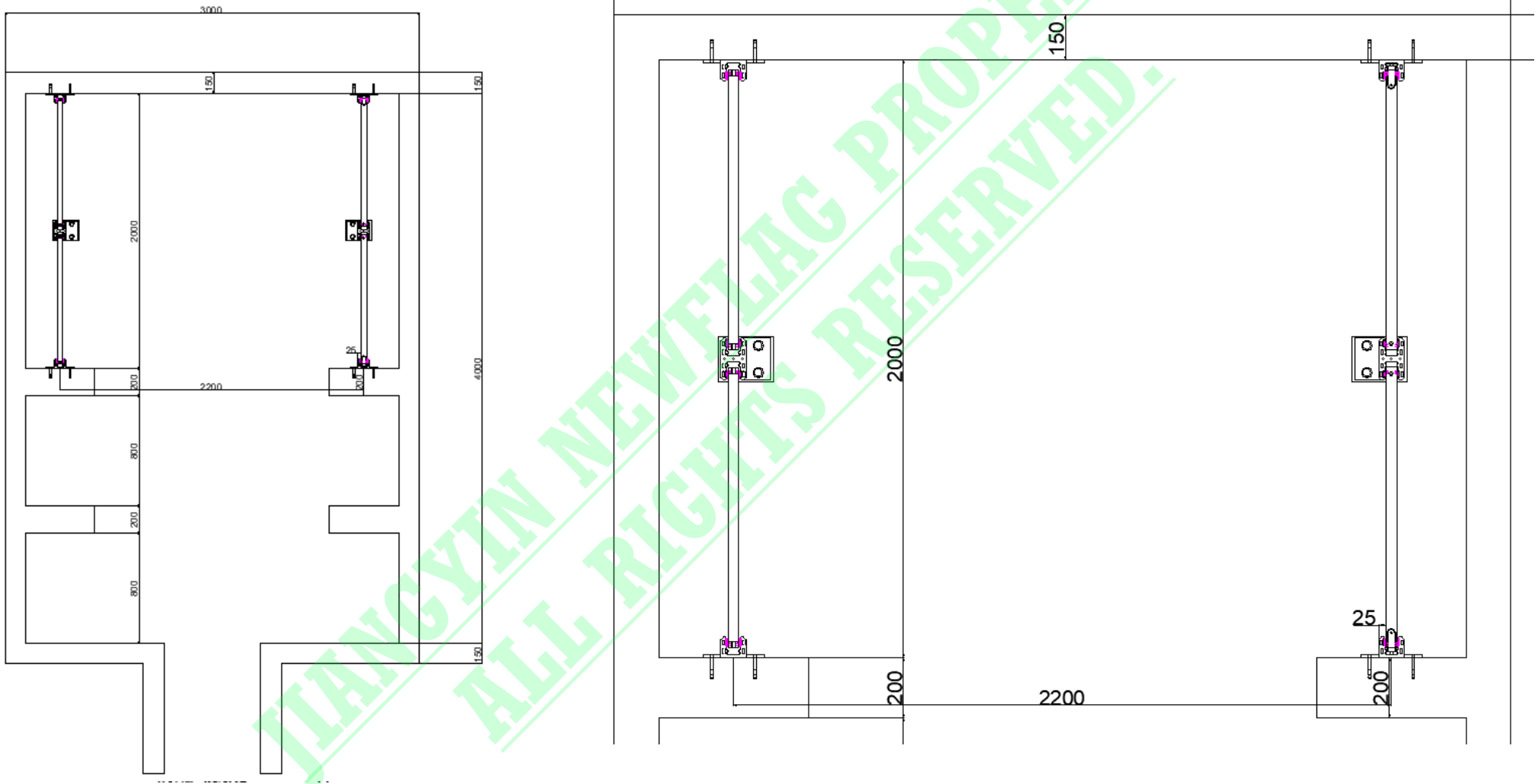
Each of the demonstrated opening is 2000 mm in width, the right side shows our Demountable Flood Barrier which is mobile, while the left side is Glass Wall Flood Barrier which is permanent constructed.

The designed flood protection height is 800mm, the concrete foundation on the ground is designed as 350mm.

Therefore, according to the experience of many projects, we recommend the pre-embedded parts (anchor plat for central posts) to be anchored into the ground concrete foundation and the end posts to be installed by anchoring wings on the side wall.

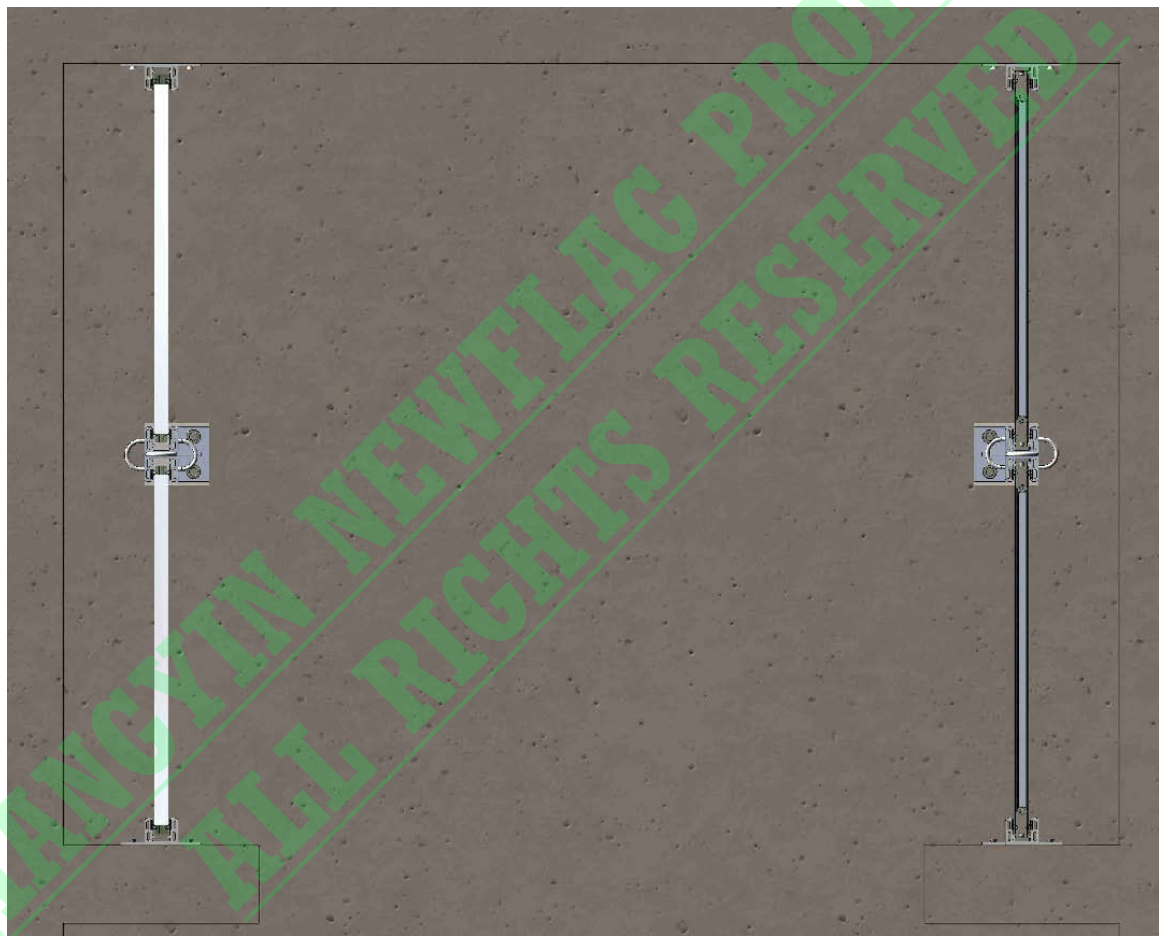
Please contact us for both the 2D&3D drawings if zoom-in reading is required.

### 2D Drawing:



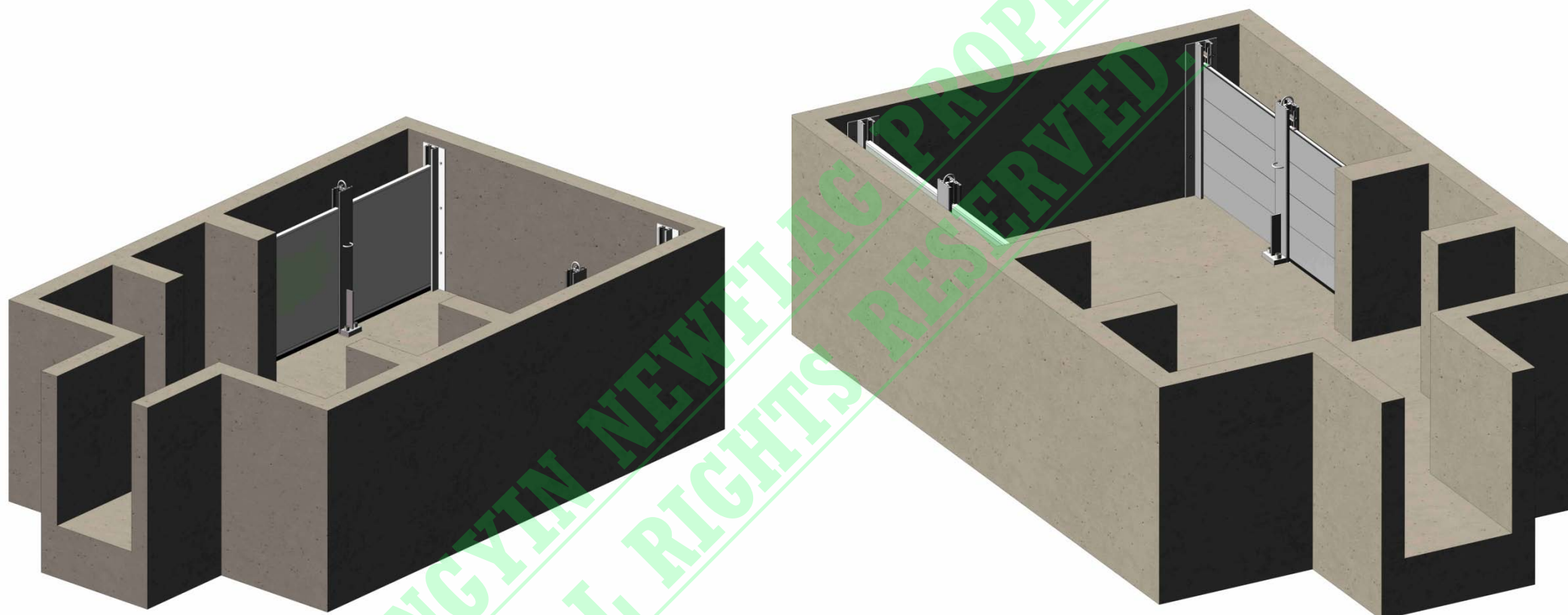
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Top View: Left-Glass / Right-Aluminum



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3D Demo:



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#### INSTALLATION INSTRUCTION

**STEP 1:** First apply the guide line or chalk line reel as the black arrow indicating in the picture, and well calculate the correct position for installation.



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**STEP 2:** The installation of Central Post--After location confirmed, drill the holes on the ground concrete foundation (as the arrow 2 shows in STEP4) for a depth 300-330mm with a driller of diameter 50mm, and make a slot of a depth 12-15mm on the concrete foundation as per the profile of the anchor plate as the picture below shows.



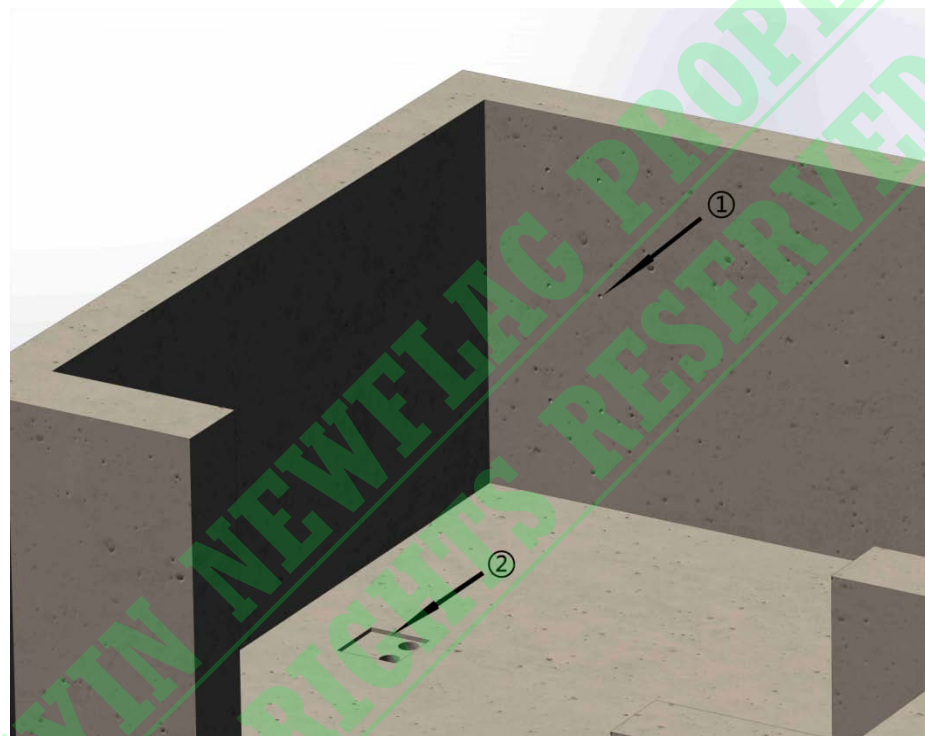
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**STEP 3:** Clean the inside of the holes to prevent rocks and debris. Fill the anchor adhesive into the holes, place the anchor plates in and make sure it parallel to the original ground surface, by adjusting the level instrument, then fill the rest of the slot with the wet concrete.



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**STEP 4:** The installation of End Posts—Find the correct location for the End posts, drill holes in depth of 110-130mm with a Dia.12-14mm driller on the side wall (as the arrow 1 shows), keep the End Post vertical and fix it to the wall with M10\*100mm expansion bolts.



**STEP 5:** Install the barrier panels and glass

**For Aluminum Barrier**, slide in the aluminum barrier panel (logs/planks) from the top and stack them one over another, apply the pressing tool for tight press.

**For Glass Barrier**, it won't quite work by sliding from the top because it is very heavy, we recommend inserting the glass from the side. Please carry out one glass by another. After one post is fixed, insert the glass wall in from the side, and the other end inserted to the central post when it has not fixed yet, adjust

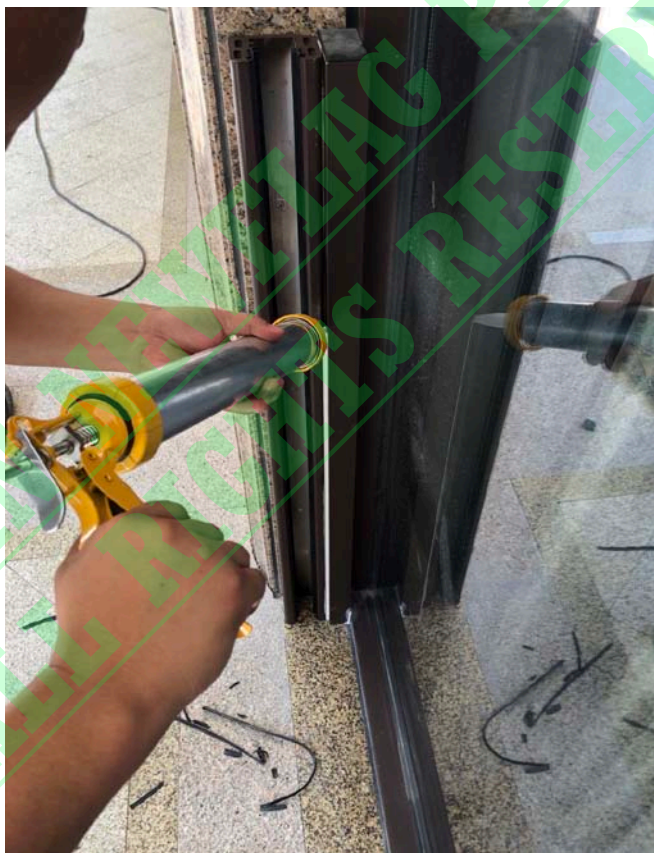
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hole in the base of the central post to align to the holes in the anchor plates for fixing, and tightly press the glass down to the bottom, Carry out the same steps for the next glass panel. You might need a crane at site for glass installation if it is in large pane for example 1.2m\*3m which will be approx. 280kgs/pc

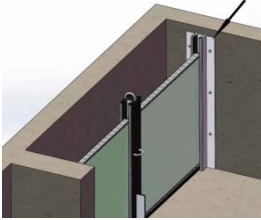

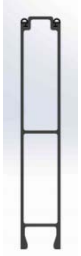
**STEP 6: For Aluminum Barrier**, apply the sealant to the edge between the end posts and the wall, to prevent leakage from side.

**For glass wall**, since it is permanently constructed, please apply the sealant on all possible gaps such as the ground bottom, the junction between the glass and posts.






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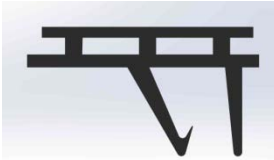



**PACKING LIST:** G refers to Gauge of the extrusion file.

Item	Name	Specification	Quantity	Remarks	Picture
1	End Posts	L205mm*W70m*H950mm*G10mm	4 pcs	L205mm is because it has anchor wing each side on the original L85mm as the arrow indicates.	
2	Central Posts	L165mm*W140mm*H950mm*G20mm	2 pcs	L165 is because the reinforce base welded on the water side on original L85mm of central post.	
3	Barrier Panels In Aluminum	H200mm*T35mm*L940mm*G2.5mm	8 PCS		



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4	Anchor Plates	2 holes type H300mm*W140*L165mm	2 pcs		
5	Glass	H800mm*T32mm*L940mm	2 pcs	with alu frames on top and bottom, and EVR gasket on the bottom.	
6	Pressing Tools		4 pcs	Each span for 2 pcs for demountable barrier.  Glass Wall not required	

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7	EPDM Gaskets for posts		17.2 meters	including 2 meters as backup	
8	EPDM Gaskets for barrier panels		17.04 meters	including 2 meters as backup	
9	Bottom Gaskets	PE+PU for aluminum / EVA for glass	6 pcs	including 1 pc per Each Type as backup	
10	Bolts	M24*80mm	5 pcs	including 1 pc as backup	

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11	Protecting Bolt	M24*20	5 pcs	including 1 pc as backup  (These bolts are inserted into the holes of the central posts' anchor plates in the foundation to prevent wastes such as dust and rocks to get in, after dismantling. )	
12	Expansion Bolts	M10*100mm	26 pcs	including 2 pc as backup	
13	Tools		1 set	Sealant, wrenches, anchor adhesive, sealant injector, barrier panel extraction tool	

**NOTE:**

1. We will pre-install the gaskets and will have the rest backup in wooden case.
2. This installation guide is based on our knowledge and it is not compulsive, your working team could work with their knowledge as long as it works out.
3. Please keep caution in installation of glass wall, especially the sudden drop to the ground or severe impact at the corners of the glass for damage. And always work safely.
4. For a 800mm flood height, actually it will not require the upstanding reinforcement which vertically sitting on the base of the central post, as well as the handler welded on the posts, in this case it is assembled as demonstration to customer for higher height solution.

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