



TECHNICAL DOCUMENTS

NF-35 SERIES DEMOUNTABLE FLOOD BARRIER







NEWFLAG TECHNOLOGY CO., LTD.



Add.: 1803,Oriental Square, NO.777, Changjiang Rd., Jiangyin, Wuxi City, Jiangsu Province, China 214400.

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CONTACTS: Keanu Lee (International Sales Manager)

In most of the anti-flood scenes for both civilian private application and water projects by local authority, the flood height to fight against will be below 1.4 meters. In order to cater this universal demand, we designed and engineered this standard floodwall NF-35.

It also has 2 main parts: removable and stackable barrier panels /stop logs and central posts, and pre-installed permanent parts including end posts or side posts as well as anchor plates pre-embedded in concrete foundation. But contrary to the NF-35L, this demountable flood barrier definitely requires pre-installed concrete foundation for anchor plate embedding to make sure the strength to fight against 1400mm high water.

The height for floodproof is still adjustable by adding or removing barrier panels from 200-1400mm, with single span maximum 6000mm while unlimited length achievable by the connection of central posts for any large opening.

After the pre-installed parts are secured and fixed to the solid foundation, there is almost none visual impact. After receiving the flood warning, a team of 3-4 labors can quickly deploy, by bolting the central posts on the foundation and sliding the logs into the recess of the posts to complete the project, after the flood, it can be easily dismounted with simple tool for storage.

Again, this well designed metal flood barrier will not require any ground frame but only solid ground surface, the PU&PE ground seals can compensate the roughness of the ground, while the EPDM rubber in both posts and panels will secure the water tightness after the pressing tool is installed on the top of the system.

Advantages:

Great strength while light weighted.

Top resistance to water loading and wave impact.

Long life due to full anodized surface.

Well engineered, height adjustable at will.

Impressive low seepage.

Very easy to install and un-install.

Minimum visual impact after flood season

Unlimited length

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1. Draft and Briefing

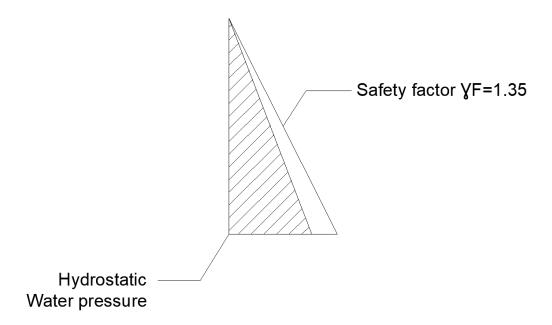
1.1 Design and Production Standards

CHNICAL DOCUMENTS

GB/T19001-2016 / ISO9001:2015 Quality Management System Certificate in Scope of Hardware Products, Metal Materials, Special Equipment, General Equipment Sales.

PAS 1188-4-2014 Flood Protection Products – Specification, Part 4 Demountable Products

1.2 Load Criteria



Specific Weight Water: 10kN/m³.



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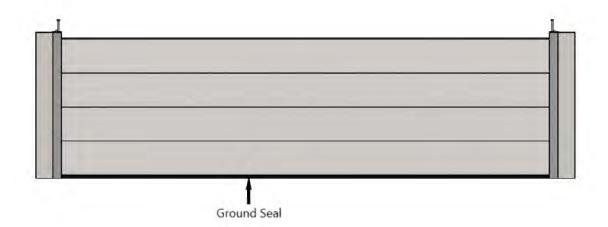
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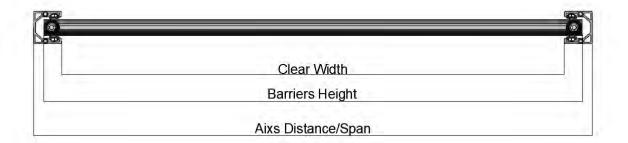
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1.3 Definition of Terms

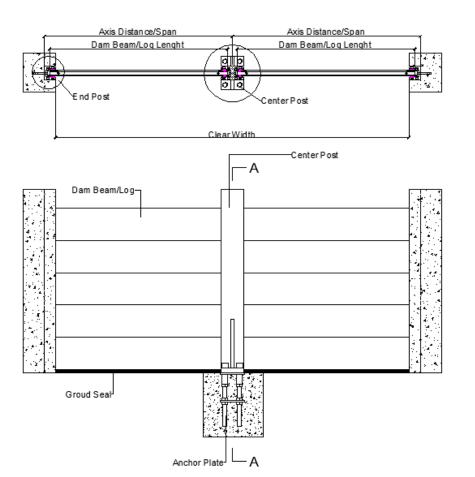
Flood Barrier NF-35 (Without Central Post)

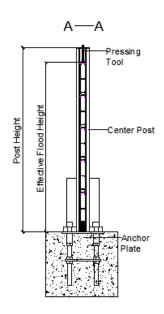




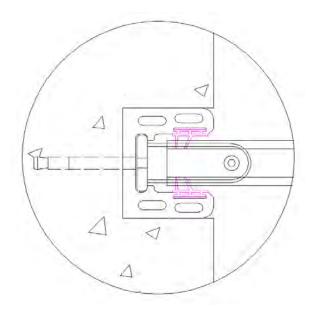


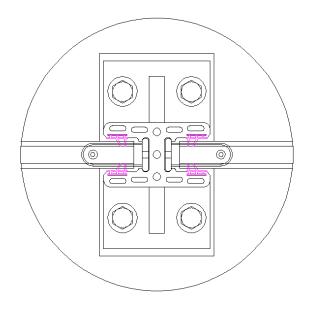
1.3.2 Flood Barrier NF-35 (With Central Post)





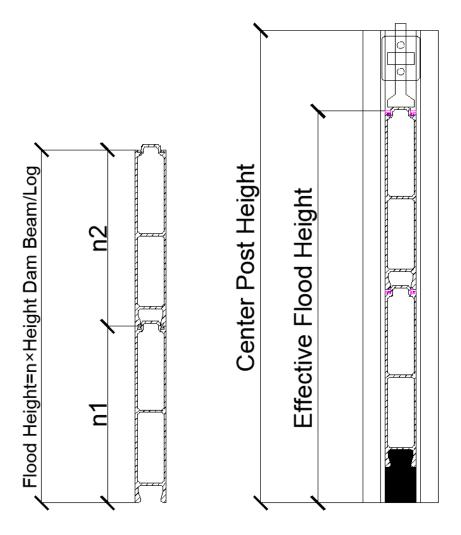
1.3.3 Details







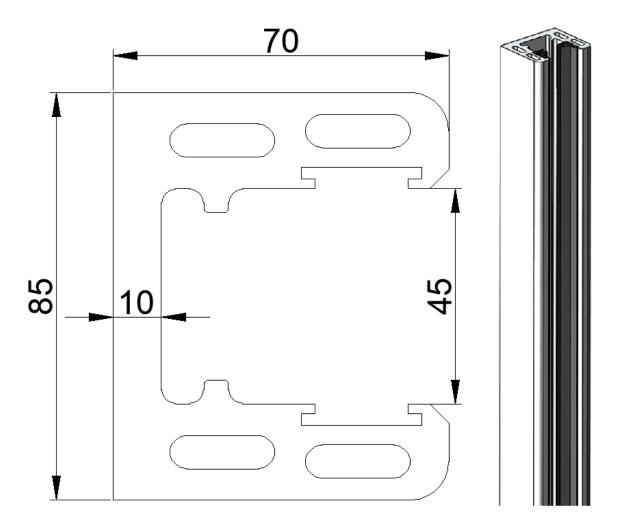
1.3.4 Flood Height, Effective Flood Height, Post Height



FLOOD BARRIER NF-35 SERIES					
NUMBER OF DAM BEAMS/LOGS	FLOOD HEIGHT [MM]	POST HEIGHT [MM]	AXIS DISTANCE [MM]		
1	200		6000		
1	200	350	8000		
2	400	550	5000		
3	600	750	4500		
4	800	950	4000		
5	1000	1150	3500		
6	1200	1350	3000		

2. System Components

2.1 End Post



PROFILE CHARACTERISTICS				
Length	mm	70		
Width	mm	85		
Thickness/Gauge	mm	10		
Weight per linear m	Kg/m	6.751		
Material	Aluminum Alloy	6063-T6		



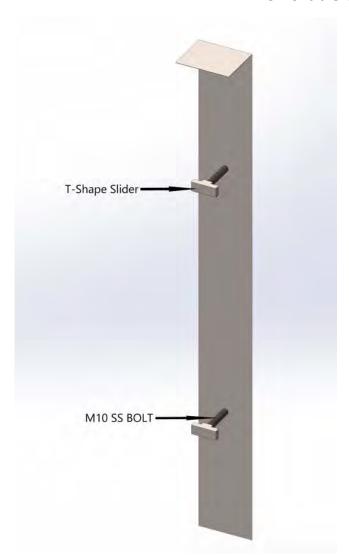
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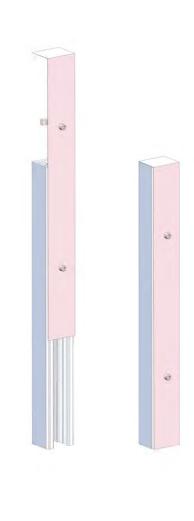
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2.2 Removable Cover for End Post





DETAILS			
Length	mm	As the post height	
Width	mm	85	
Thickness/Gauge	mm	2mm for SS304 / 3mm for aluminum	
Moight nordinger as	Wa faa	0.5kgs/m for aluminum	
Weight per linear m	Kg/m	1.35 kgs/m for SS304	
Matarial	Powder Coated or Anodized Aluminum		
Material	/ Satin or painted SS304		

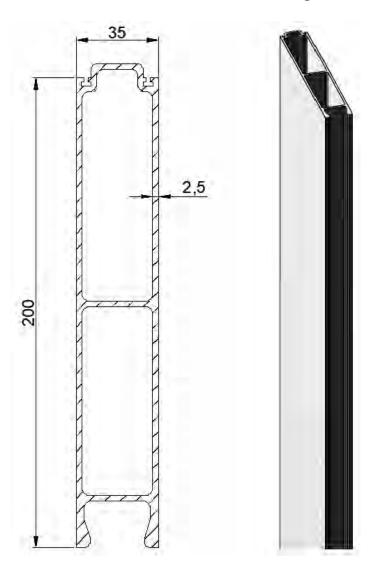
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2.3 Barrier Panel/Dam Beam/Log



PROFILE CHARACTERISTICS				
Height	mm	200		
Thickness	mm	35		
Gauge	mm	2.5		
Weight per linear m	Kg/m	3.687		
Material	Aluminum Alloy	6063-T6		

TECHNICAL DOCUMENTS

FLOOD DEFENCE SPECIALIST

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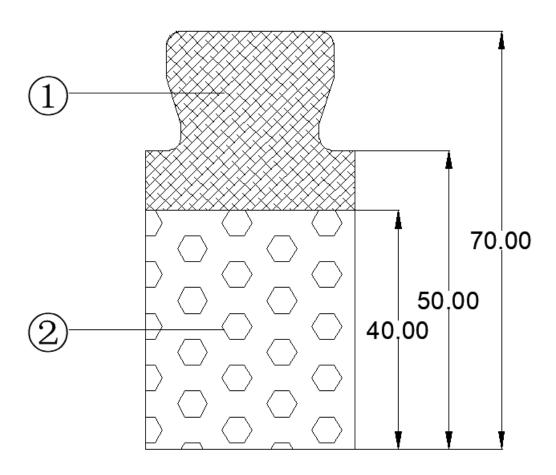
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2.4 Seals/Gaskets

2.4.1 Ground Seal PE/PU



DETAILS			
Material Pos 1	PE		
Material Pos 2	PU		
Weight per linear m	0.29kg/m		



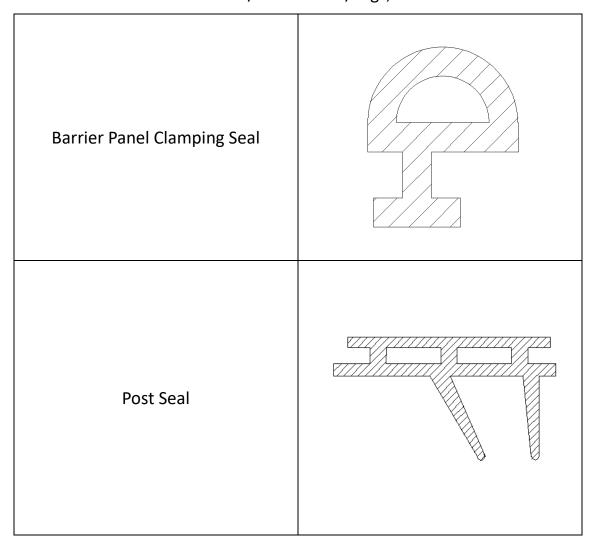
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2.4.2 Gaskets for Barrier Panels/Dam Beams/Logs, End Posts & Center Posts



DETAILS		
Matorial	Ethylene Propylene Diene Monomer	
Material	Rubber (EPDM)	



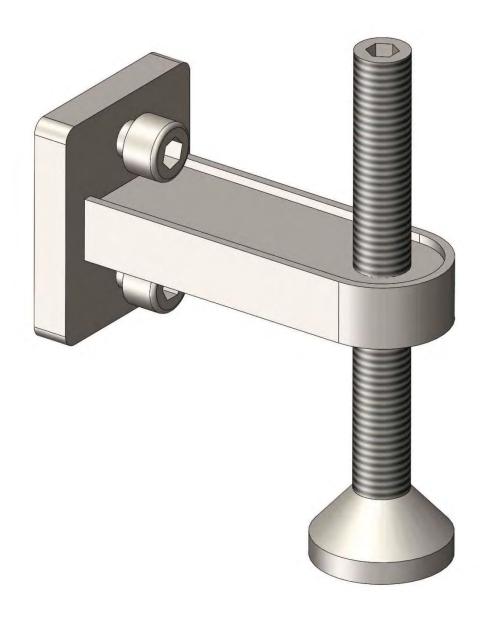
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2.5 Pressing Tool



DETAILS			
Material	Stainless Steel, Grade: SS 304		
Function	Sliding Type, pressing height adjustable		
SS304 DIE CASTED INTEGRITY			



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2.6 Anchor Plate

2.6.1 NF-35-K4-ZJ



DETAILS			
Coverplate	Stainless Steel SS 304		
Bushes	Stainless Steel SS 304		
Nuts	Carbon Steel, Grade: 8.8; Q235		
Reinforcement Spindles	Carbon Steel, Grade: 8.8; Q235		



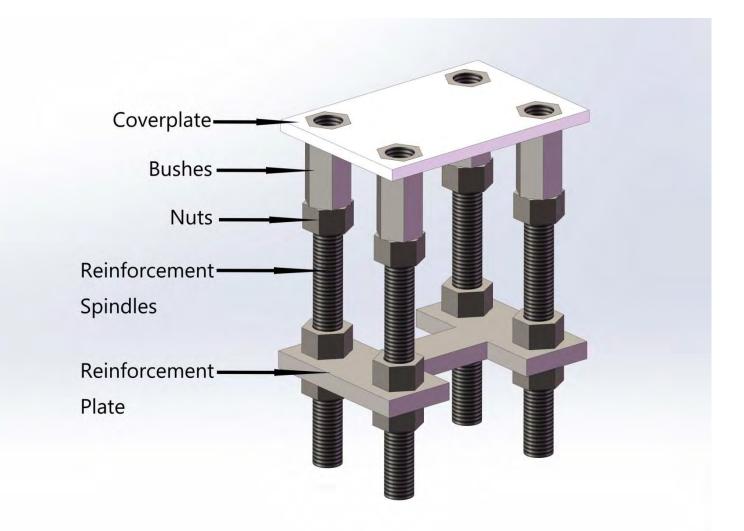
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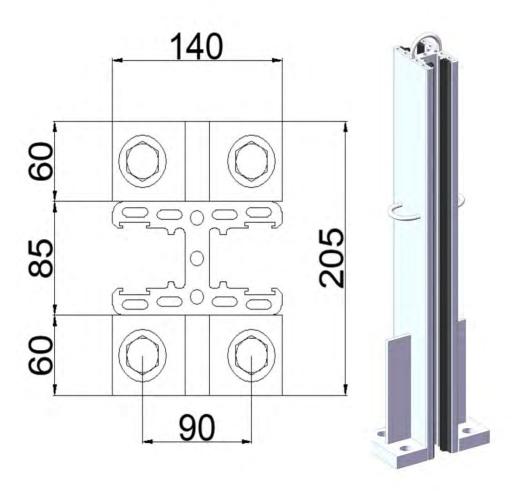
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2.6.2 NF-35-K4



DETAILS			
Coverplate	Stainless Steel SS 304		
Bushes	Stainless Steel SS 304		
Nuts	Carbon Steel, Grade: 8.8; Q235		
Reinforcement Plate	Carbon Steel, Grade: 8.8; NO.45 Steel		
Reinforcement Spindles	Carbon Steel, Grade: 8.8; Q235		

2.7 Removable Center Post



DETAILS					
Description	Flood Height [mm]	Central Post Height [mm]	Weight [kg]	Material	
NF-35-350	200	350	5.2		
NF-35-550	400	550	8.1		
NF-35-750	600	750	10.5	6063-T5	
NF-35-950	800	950	13.1	6063-13	
NF-35-1150	1000	1150	14.65		
NF-35-1350	1200	1350	17.27		



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2.7.1 Bolts

1



2



SYSTEM	ITEM	FUNCTION	DESCRIPTION
NE 25	1	Protection Bolt	M24x20, SS 304
NF-35	2	Anchor Plate Fixing Bolt	M24x70 8.8 galv. zinced

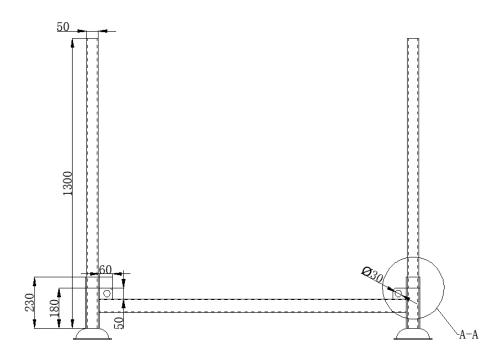
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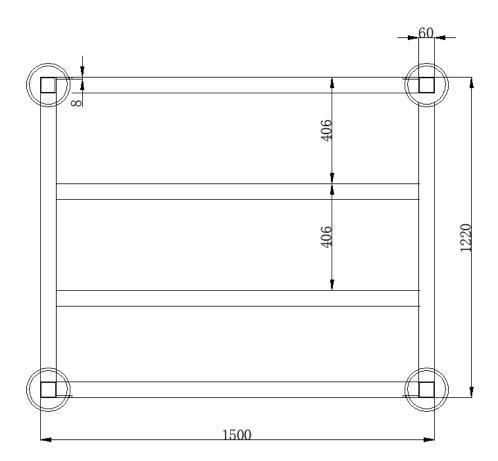
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3. Storage





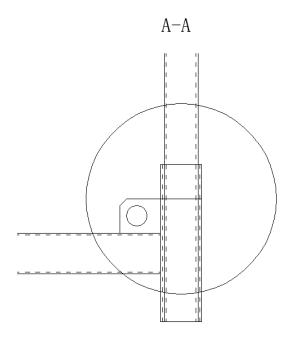


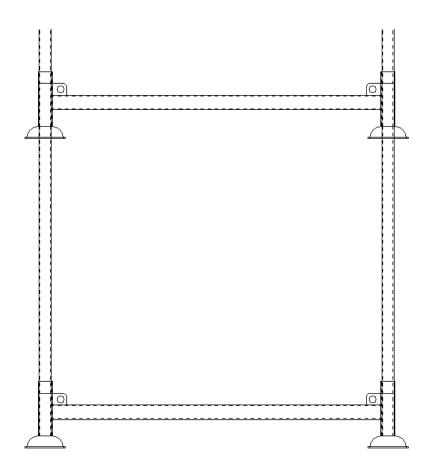
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STACKING-UP

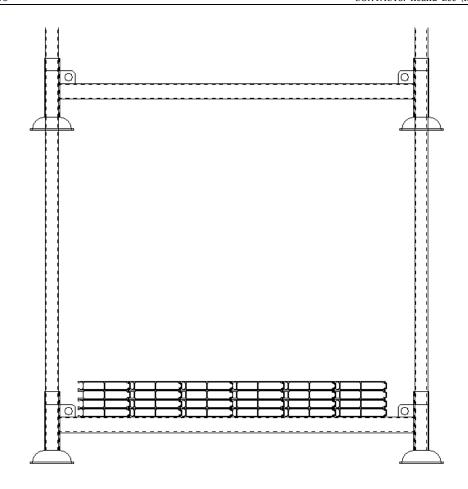


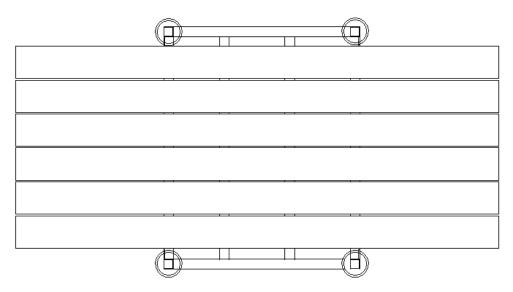
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Description	Pallet Height [mm]	For	Panel NO. Each layer	Max. Number of Layers
Storage Pallet	1300	Barrier Panels/Dam Beams/ Logs	6	25

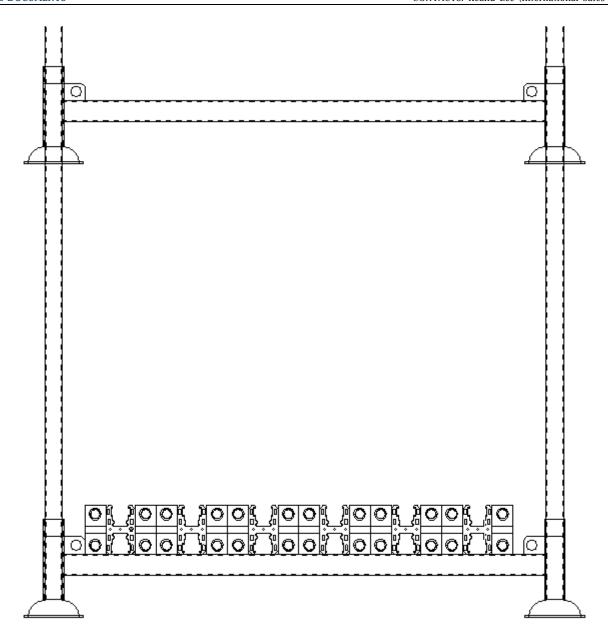


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Description	Pallet Height	For	Post NO.	Max. Number
	[mm]		Each layer	of Layers
Storage Pallet	1300	Center Post	6	7



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4. Equipment

4.1 Tools



System	Tool	Part	Application
NF-35	Ratchet ½"	Hexagon Socket SW 6mm	Expansion Bolt for Side Post
		Hexagon Socket SW 6mm	Side Fixing Bolt on Pressing Tool
		Hexagon Socket SW 6mm	Downwards Bolt on Pressing Tool
		Hexagon Socket SW 17mm	Fixing Bolt for Central Post
		Hexagon Socket SW 12mm	Protection Bolts for Anchor Plate



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4.2 Extracting Tool

To extract the barrier during dismantlement





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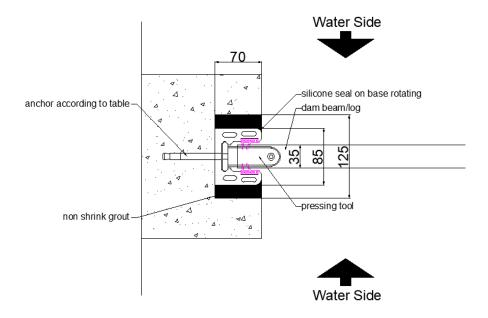
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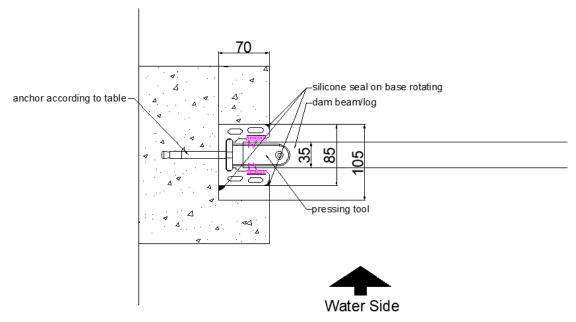
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5. End Post - Mounting Types

5.1 Mounting Types - In Recess/Slot on Wall





Mounting Tolerance:

Frame Assembly

- In Axis + / 3mm
- Vertically + / 3mm
 - Total max. 6mm

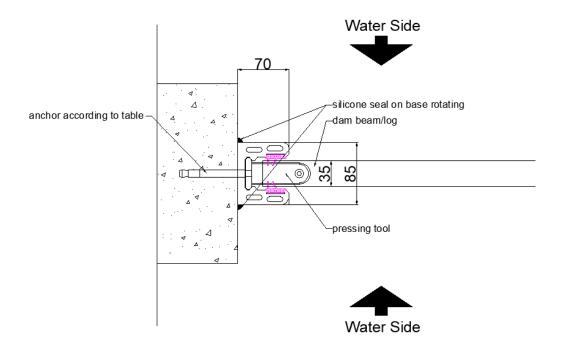
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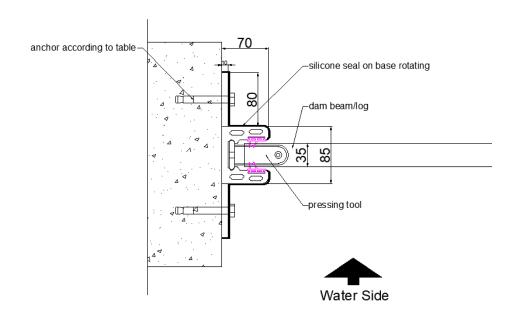
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5.2 Mounting Types - Side Wall Mounted





Mounting Tolerance:

Frame Assembly

- In Axis + / 3mm
- Vertically + / 3mm
 - Total max. 6mm

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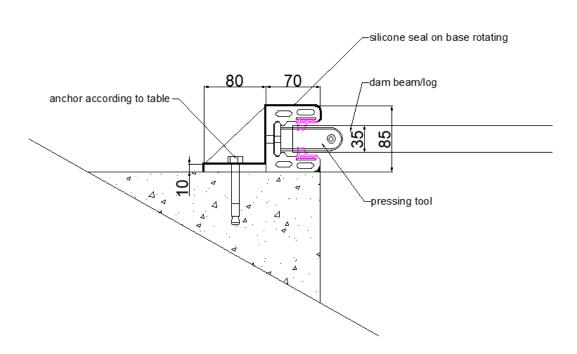
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5.3 Mounting Types - Front Wall Mounted





Mounting Tolerance:

Frame Assembly

- In Axis + / 3mm
- Vertically + / 3mm
 - Total max. 6mm



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