IBS Flood Protection Systems

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IBS Removable Floodwall

Flood Free Situation

IBS Flood Protection Systems

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IBS Removable Floodwall

Flood Warning → Installation of Posts

IBS Flood Protection Systems

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IBS Removable Floodwall

Insertion of Logs to required Flood Level

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Insertion of Logs to full Flood Level

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IBS Removable Floodwall

River Flood Protection of Municipalities

IBS Flood Protection Systems

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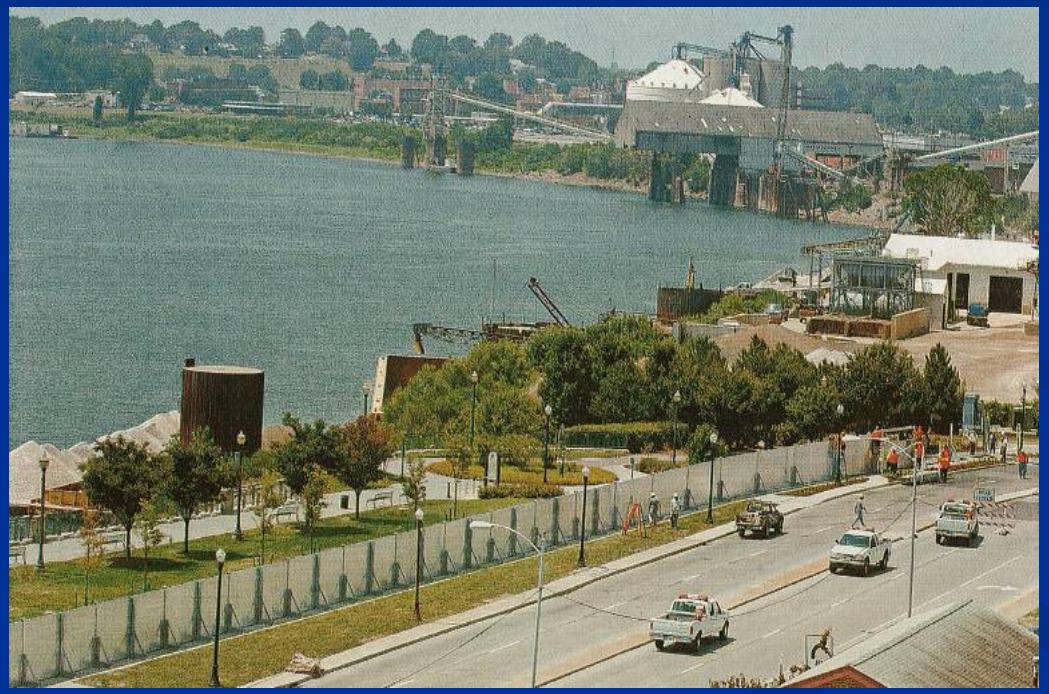
IBS Removable Floodwall



River Flood Protection of Industrial, Commercial and Private Properties

Flood Protection Systems

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IBS Removable Floodwall

Storm Flood Protection of Municipalities Industrial, Commercial and Private Properties

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IBS Removable Floodwall

Levee Closures

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IBS Removable Floodwall

Road Closures

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IBS Removable Floodwall

Railroad Closures

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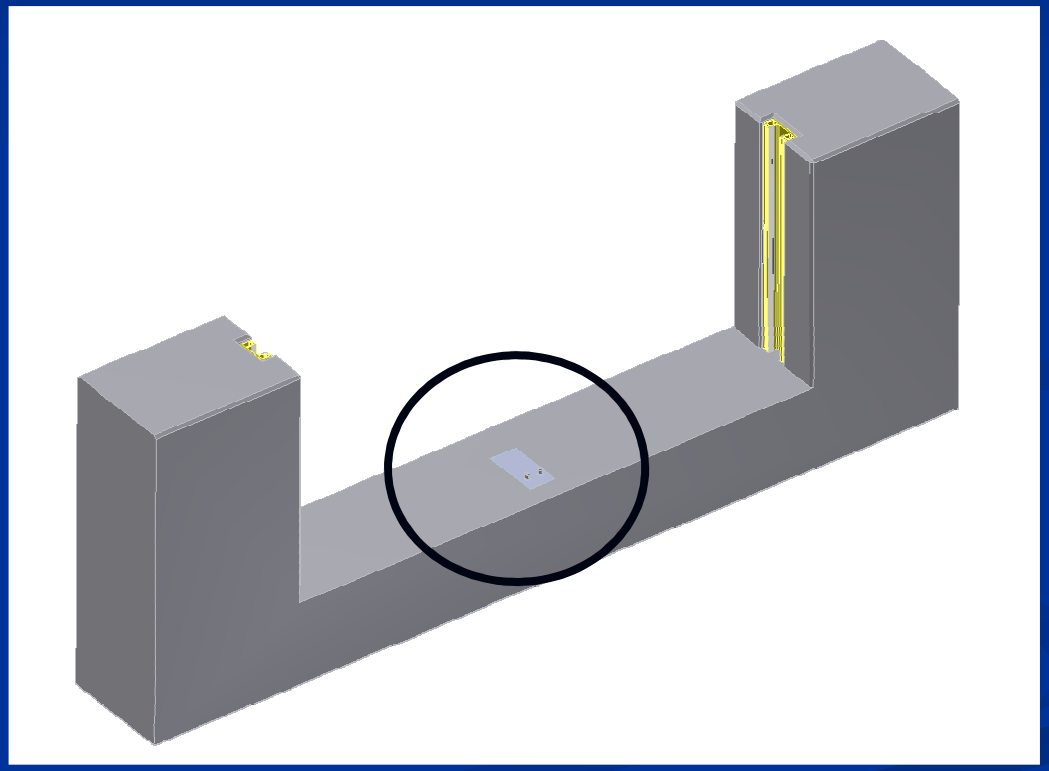
IBS Removable Floodwall



Anchor Plate

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

3. Removable Floodwall Components

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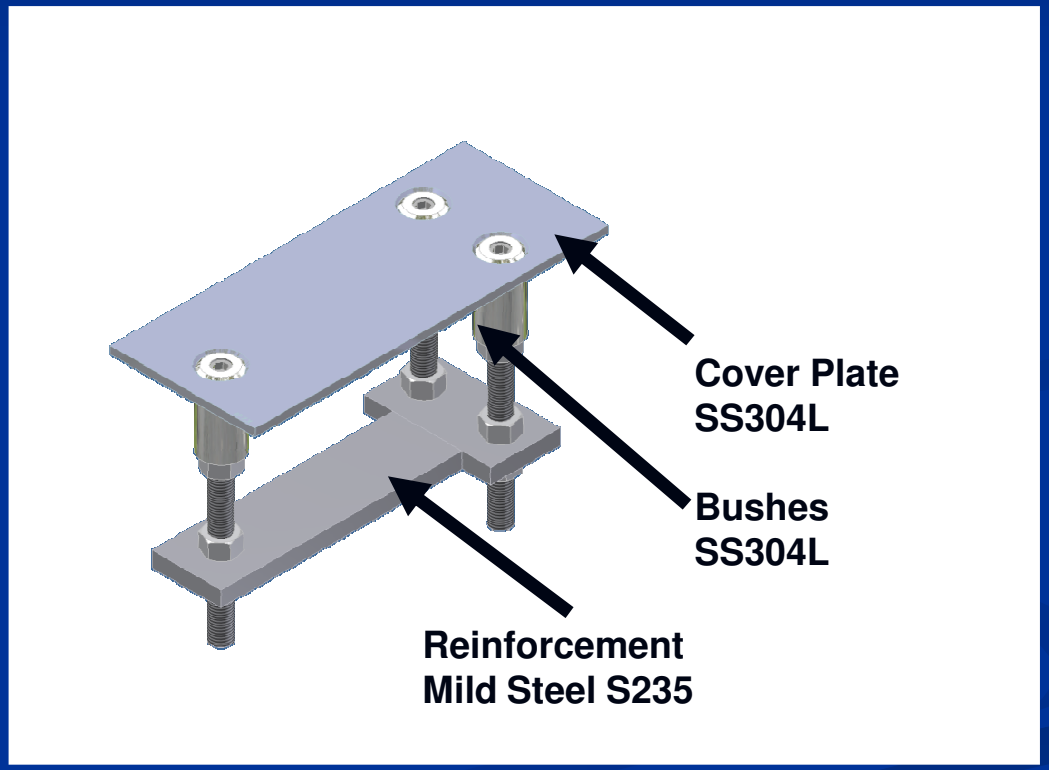
5. Additional Information

6. Summary

IBS Removable Floodwall



Anchor Plate Design

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

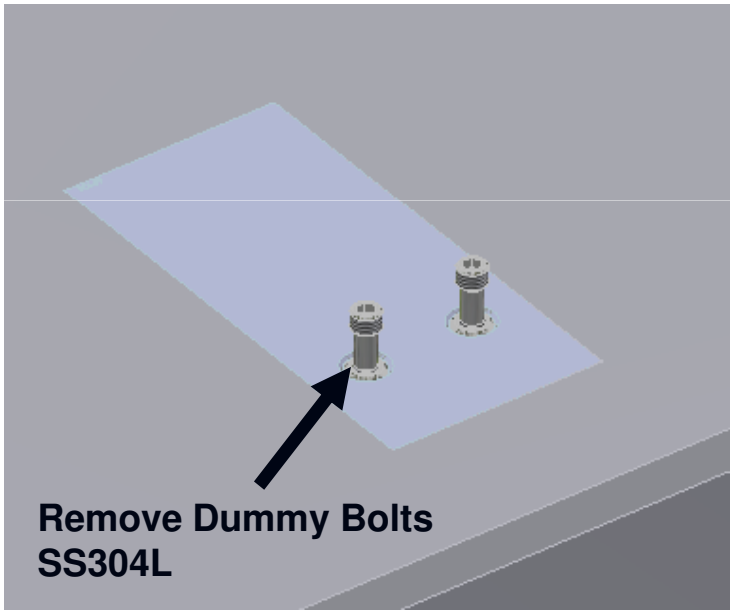
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Anchor Plate

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

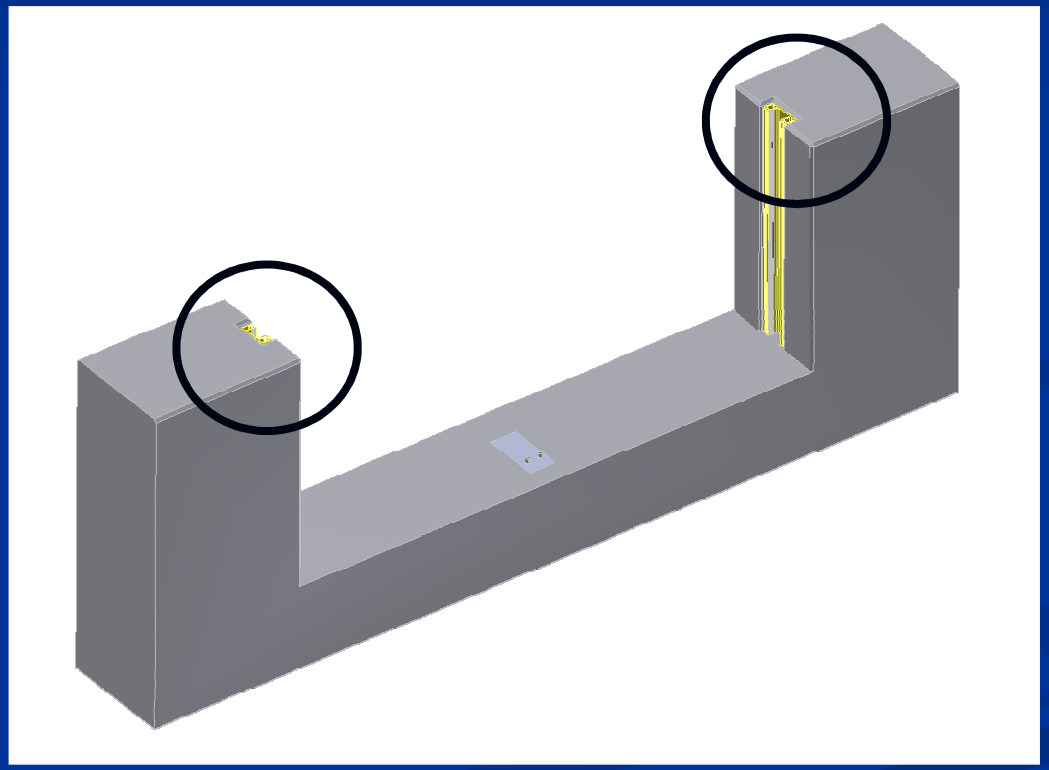
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



End Posts

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

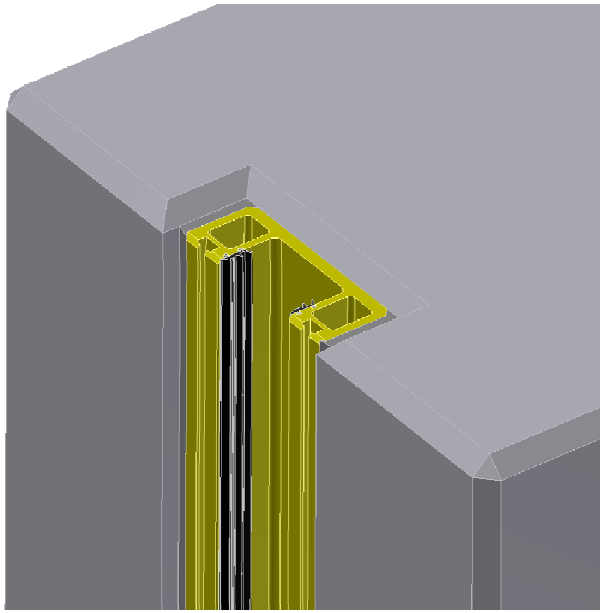
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



End Posts

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

3. Removable Floodwall Components

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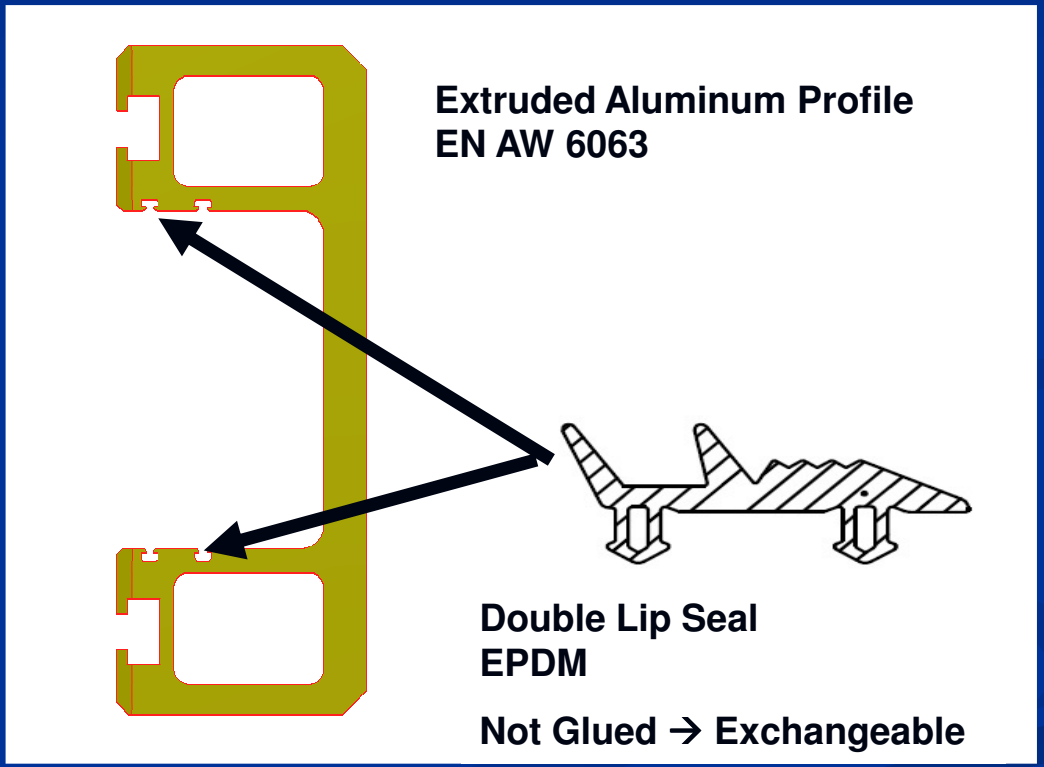
5. Additional Information

6. Summary

IBS Removable Floodwall



End Post Design

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

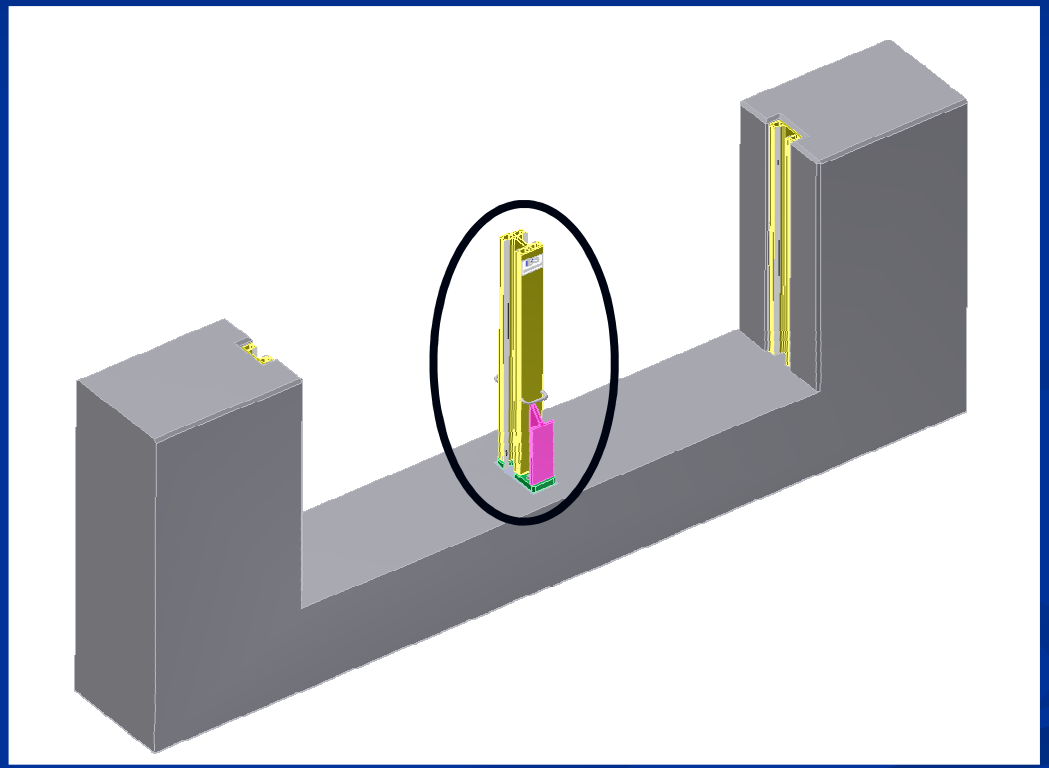
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Centre Post

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

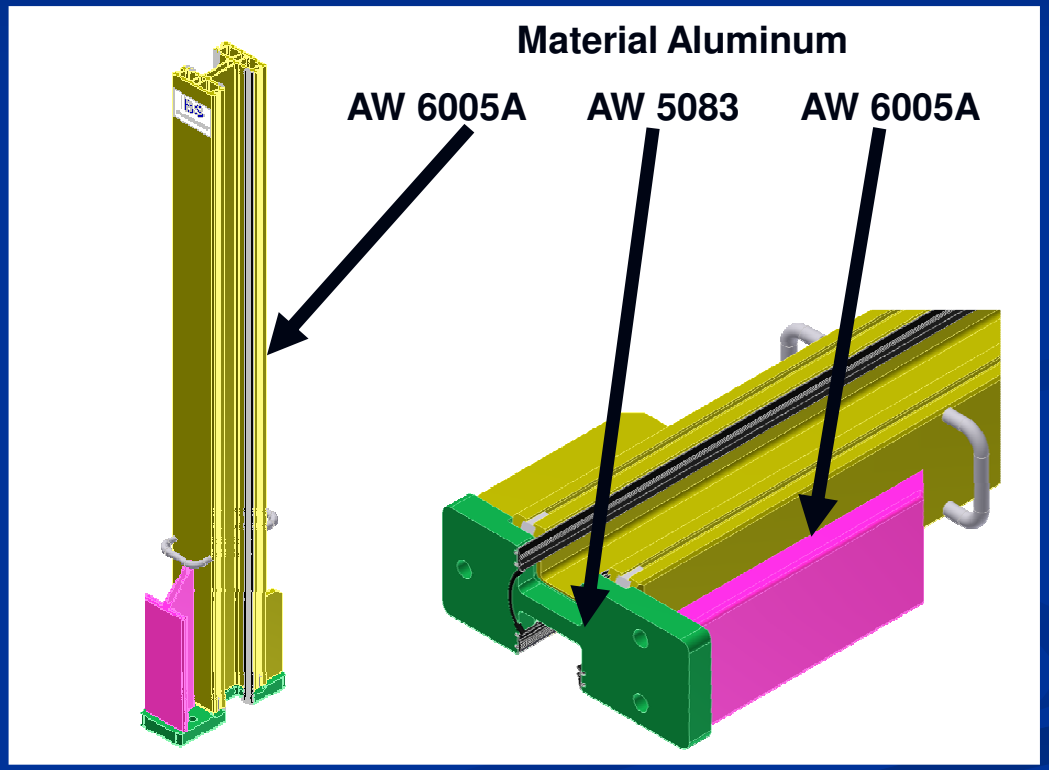
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Centre Post Design

Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall

Post Height	Post Weight
200 mm	9 kg
400 mm	15 kg
600 mm	20 kg
800 mm	26 kg
1000 mm	32 kg
1200 mm	37 kg

Centre Post Weights 200 – 1200 mm

Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall

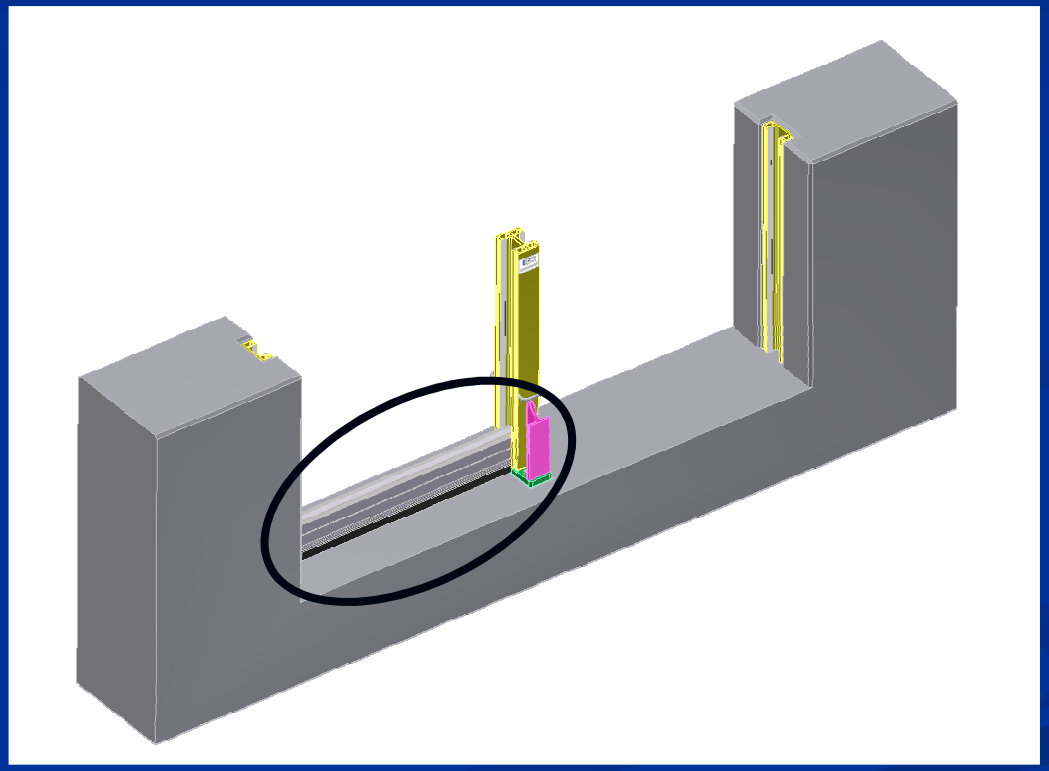
Post Height	Post Weight
1400 mm	48 kg
1600 mm	53 kg
1800 mm	59 kg
2000 mm	67 kg
2200 mm	73 kg
2400 mm	78 kg

Centre Post Weights 1400 – 2400 mm

IBS Flood Protection Systems

1. Introduction
2. Removable Floodwall Applications
3. Removable Floodwall Components
4. Removable Floodwall Storage
5. Additional Information
6. Summary

IBS Removable Floodwall



Ground Seal

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

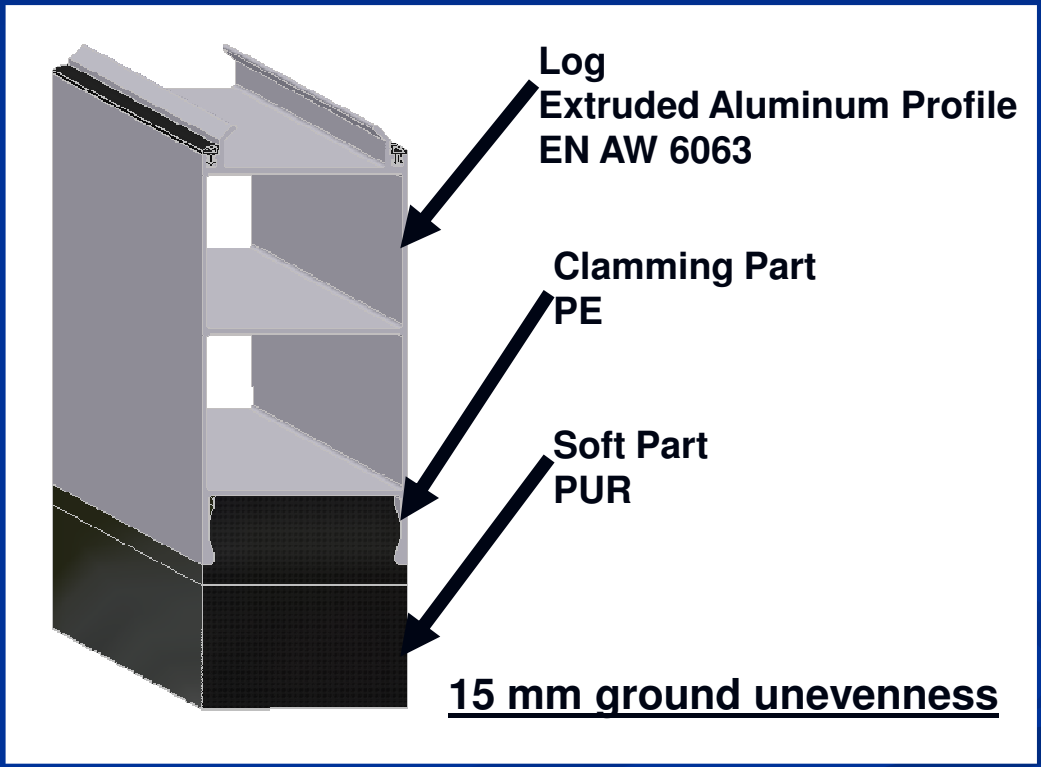
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Ground Seal Design

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

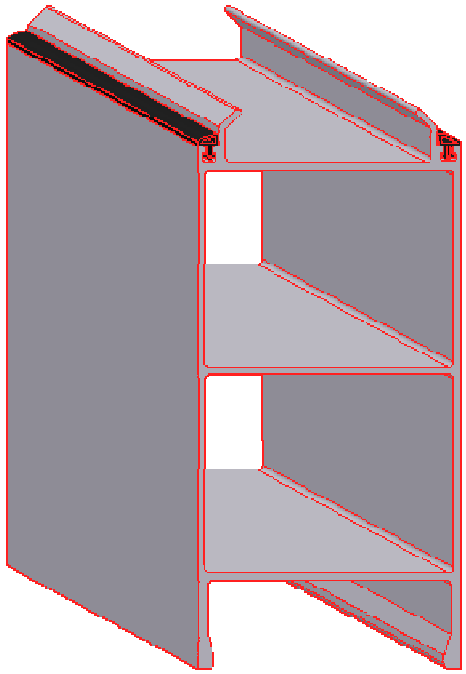
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Log

Extruded Aluminum Profile

EN AW 6063

B x H = 100 x 200

Weight: 5,3 kg/m

Seals EPDM

Not Glued, Exchangeable

Log Design

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

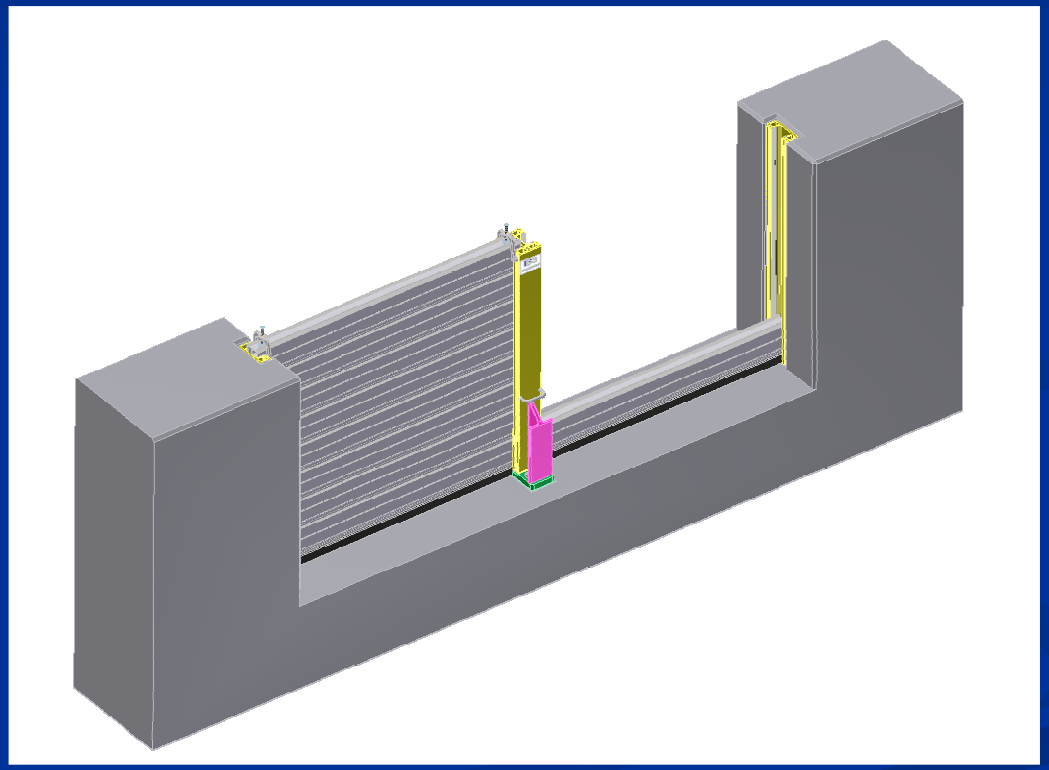
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Insertion of Logs

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

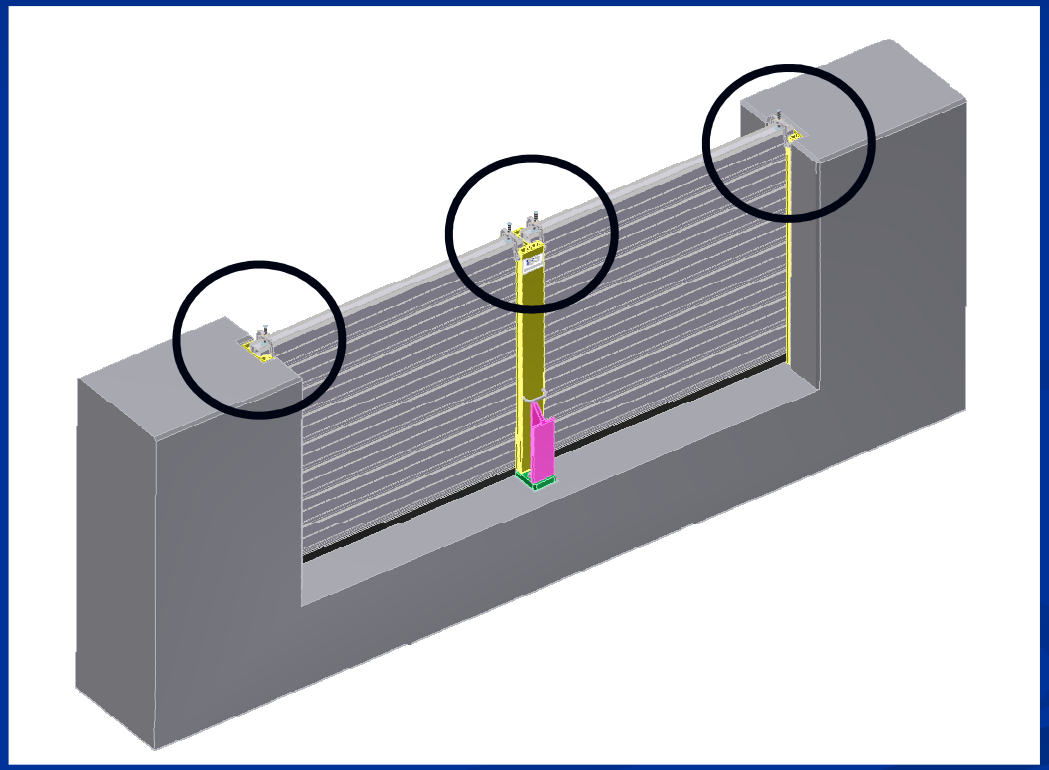
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Insertion of Logs and Pressing Tool

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

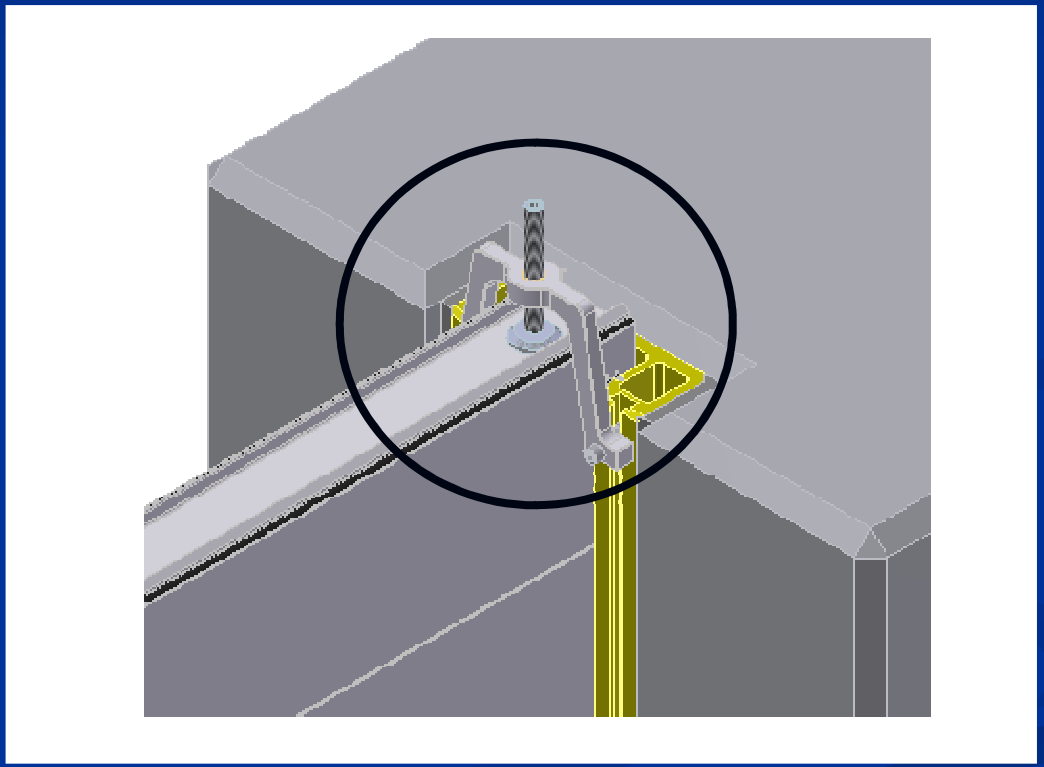
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Pressing Tool

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

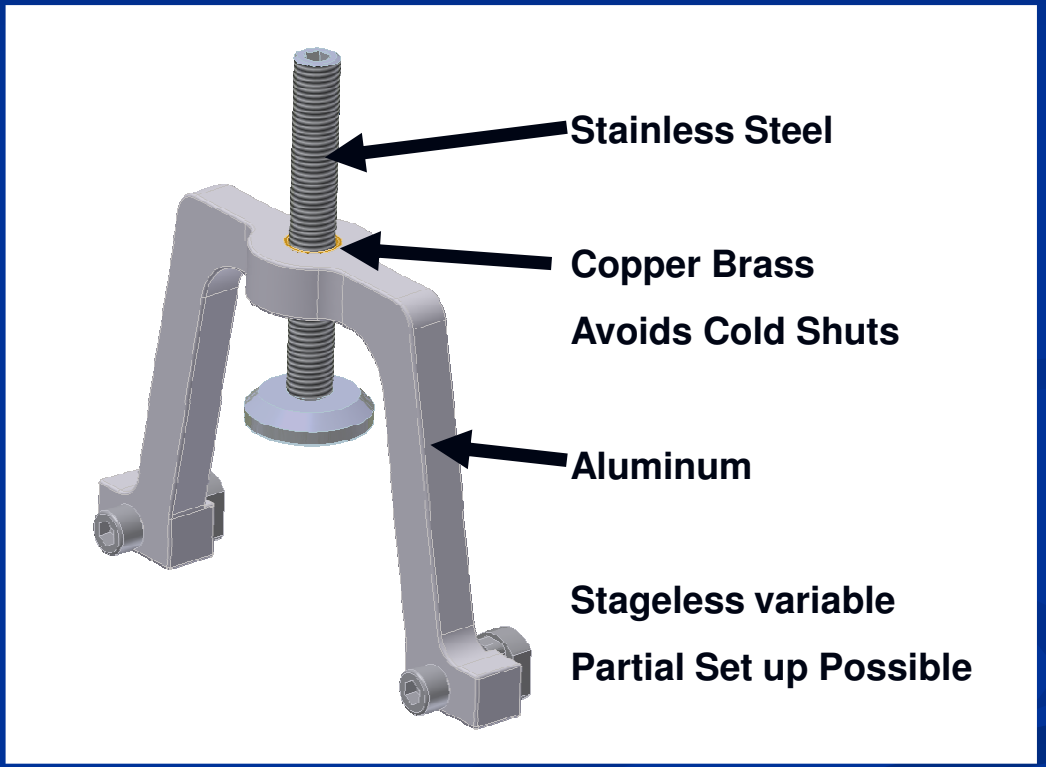
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Pressing Tool Design

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

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6. Summary

IBS Removable Floodwall

Storage Rack for Logs – Cleaning after use

IBS Flood Protection Systems

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6. Summary

IBS Removable Floodwall

Storage Racks for Logs – stacked in storage area

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

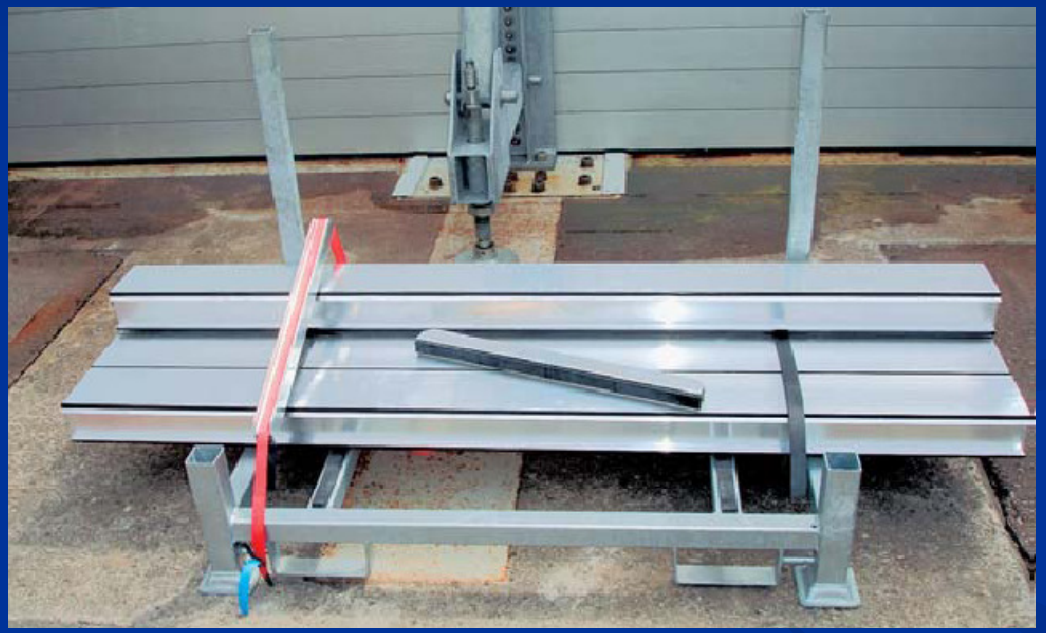
3. Removable Floodwall Components

4. Removable Floodwall Storage

5. Additional Information

6. Summary

IBS Removable Floodwall



Storage Rack Logs – Components

IBS Flood Protection Systems

1. Introduction

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IBS Removable Floodwall

Storage Rack for Posts

IBS Flood Protection Systems

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IBS Removable Floodwall

Storage Rack for Posts – Components

IBS Flood Protection Systems

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IBS Removable Floodwall

Logistics & Installation

Distribution of Racks on Site

IBS Flood Protection Systems

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IBS Removable Floodwall

Logistics & Installation

Post Installation

IBS Flood Protection Systems

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IBS Removable Floodwall

Logistics & Installation

Insertion of Logs

IBS Flood Protection Systems

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IBS Removable Floodwall

Logistics & Installation

Insertion of Logs

IBS Flood Protection Systems

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IBS Removable Floodwall

Logistics & Installation

Installation Time for the removable Floodwall

10 to 20 m²/(man*hour)
Depending on the circumstances (height, space, etc.)
Not included the transport from storage area to the site and the equal distribution of the racks on site

Example: IBS Test Installation in Austria, Linz

Length:	1000 m
Average Flood height:	h = 2,50 m
Number of Workers:	20 untrained Workers
Required Installation Time:	5 – 6 h
Installation Time:	**20 m²/(man*hour)**

IBS Flood Protection Systems

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IBS Removable Floodwall

Anchor Plate Assembly

On Sheet Pile

IBS Flood Protection Systems

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IBS Removable Floodwall

Anchor Plate Assembly

In Recess

IBS Flood Protection Systems

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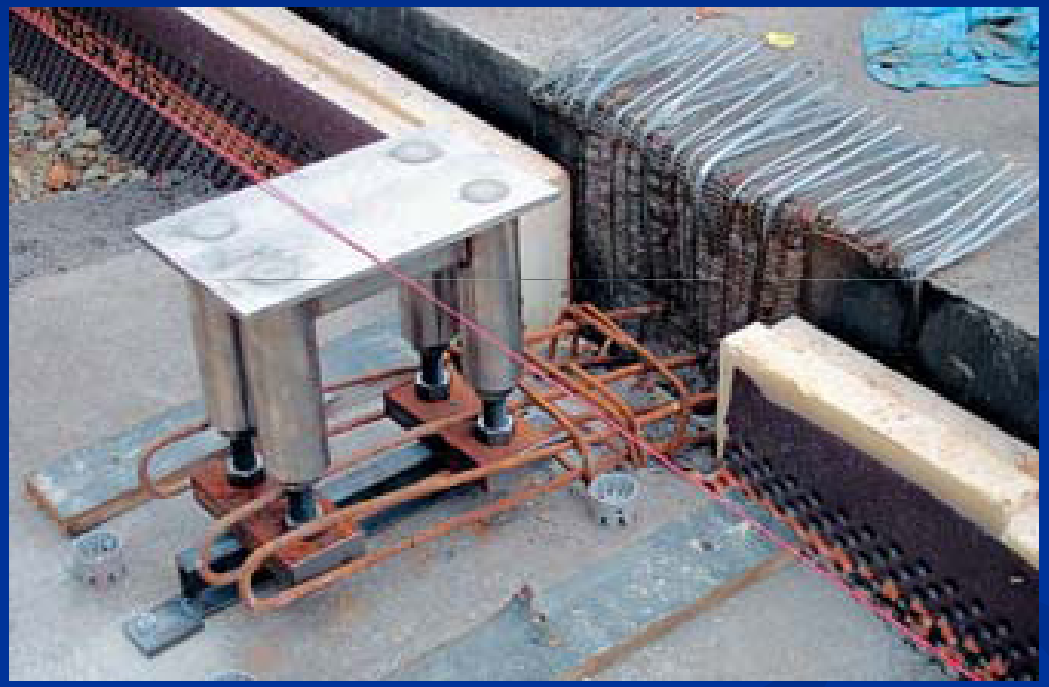
IBS Removable Floodwall

Anchor Plate Assembly



On Concrete Foundation

IBS Flood Protection Systems

1. Introduction

2. Removable Floodwall Applications

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4. Removable Floodwall Storage

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6. Summary

IBS Removable Floodwall

Anchor Plate Assembly

On Stirrups

Flood Protection Systems

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IBS Removable Floodwall

Tolerances

Inclination of the Foundation / Wall – max. 3° / 5%

IBS Flood Protection Systems

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IBS Removable Floodwall

Tolerances

If Span = 2,00 m → Radius >= 20 m

OR

If Span = 3,00 m → Radius <= 30 m

IBS Flood Protection Systems

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IBS Removable Floodwall

Closures in the Defense Line / Transitions

IBS Flood Protection Systems

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IBS Removable Floodwall

Closures in the Defense Line / Transitions

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IBS Removable Floodwall

Closures in the Defense Line / Transitions

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IBS Removable Floodwall

Closures in the Defense Line / Transitions

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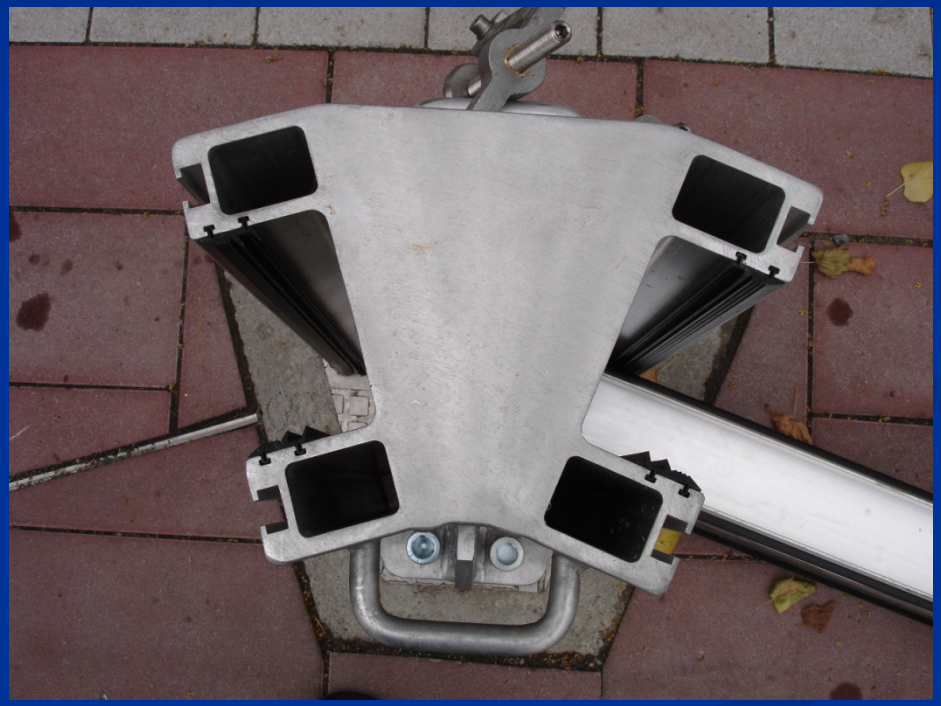
IBS Removable Floodwall

Corners / Angles in the Defense Line



IBS Flood Protection Systems

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IBS Removable Floodwall

Corners / Angles in the Defense Line

IBS Flood Protection Systems

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IBS Removable Floodwall

Product Testing

Test Facility in Thierhaupten, Germany

IBS Flood Protection Systems

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5. Additional Information

6. Summary

IBS Removable Floodwall

Product Testing

Post and Anchor Plate Crash test on Site in Austria