

Product Catalogue

HW-B100K

HW-W100K



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1 Coverage and Terminology

1.1 Design Standards

DIN 19704-1: 2012-05 Hydraulic steel structures Part 1: Criteria for design and calculation

DIN EN 1990: 2010-12 Eurocode: Basis of structural design

DIN EN 1991-1-1: 2010-12 Eurocode 1: Actions on structures Part 1-1: General actions –
Densities, self-weight, imposed loads for buildings

DIN EN 1993-1-1: 2010-12 Eurocode 3: Design of steel structures Part 1-1: General rules
and rules for buildings

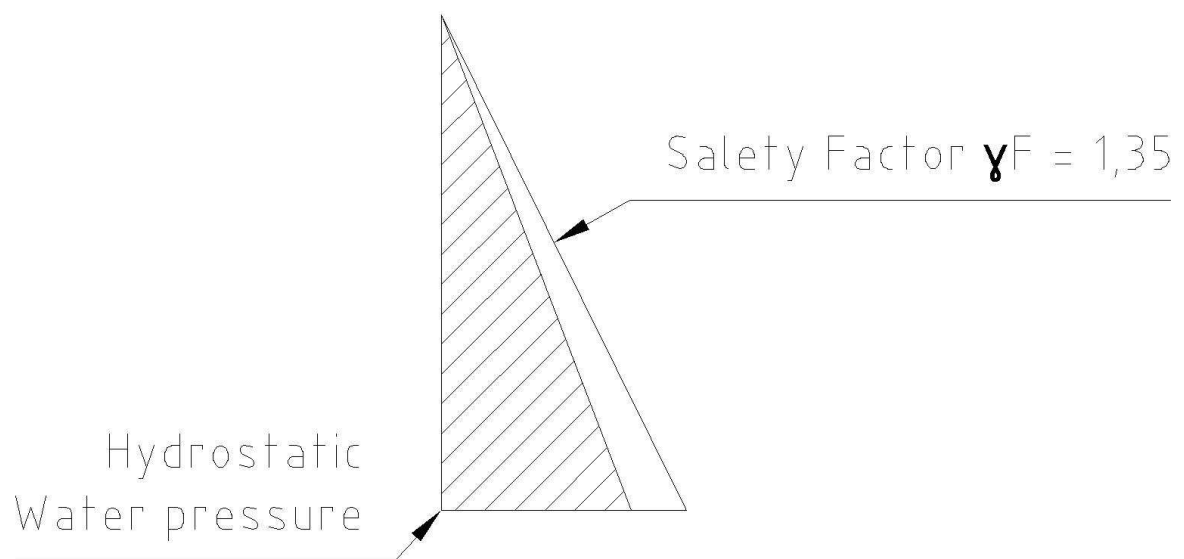
DIN EN1999-1-1: 2010-05: Eurocode 9: Design of aluminium structures Part 1-1: General
structural rules

DIN 19569-4: 2000-11: Wastewater treatment plants – Principles for the design of structures
and technical equipment

Part 4: Specific principles for shutoff devices as penstocks, sluice gates, stop logs etc.

Table 1 Leakage Rates for Systems out of dam beams / stop logs

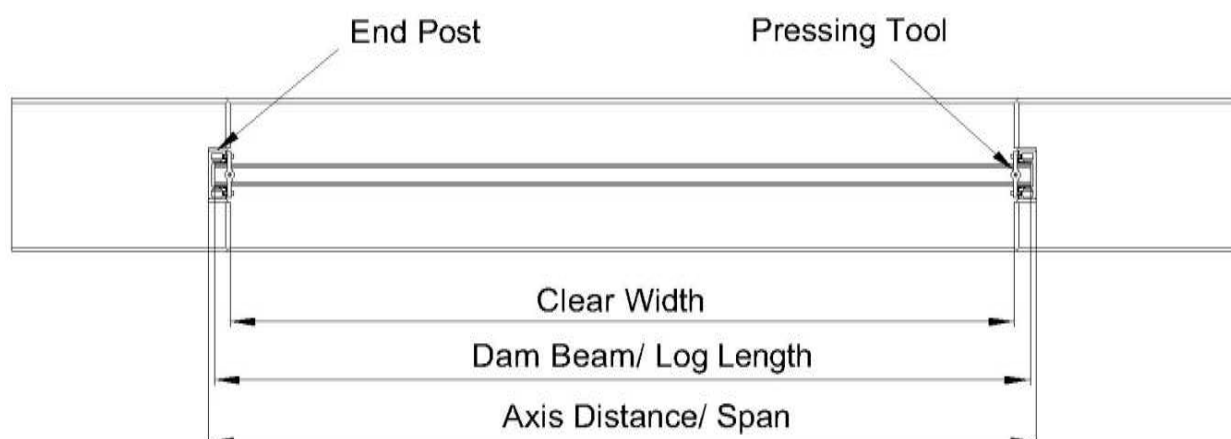
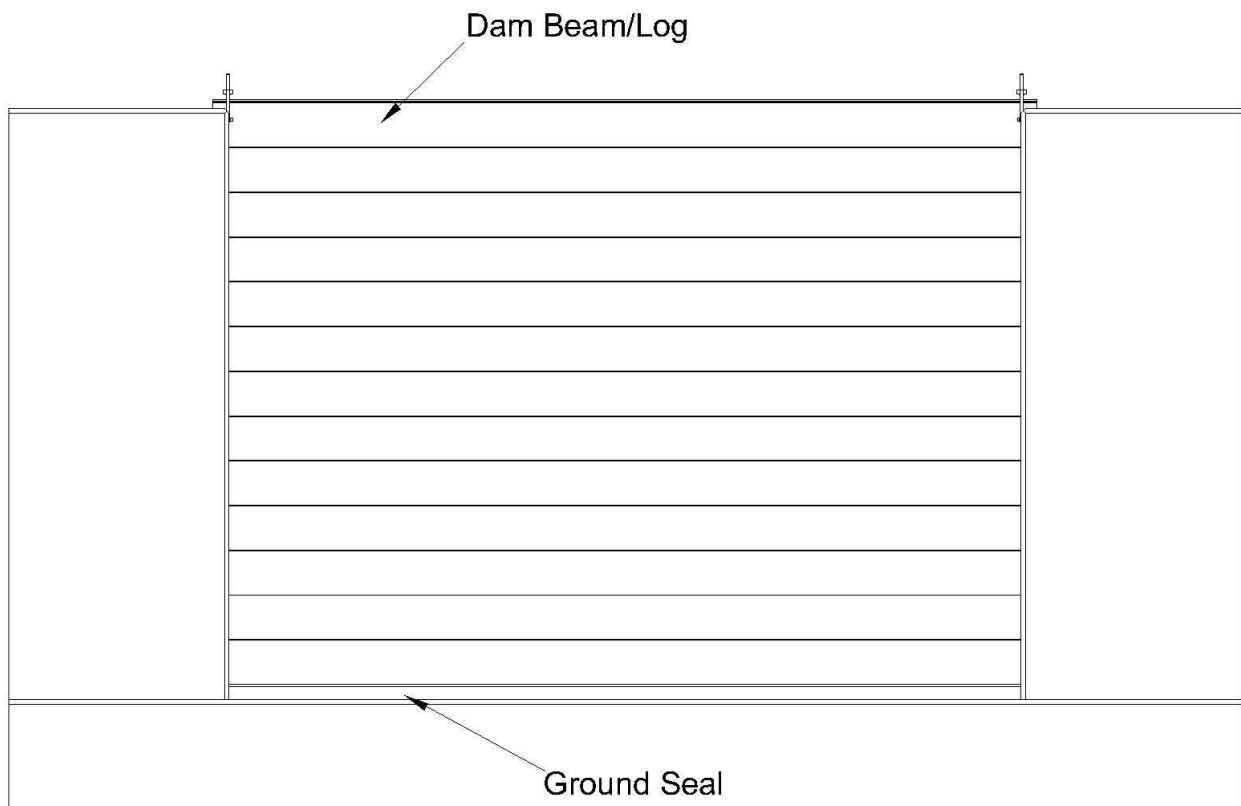
1.2 Load Criteria



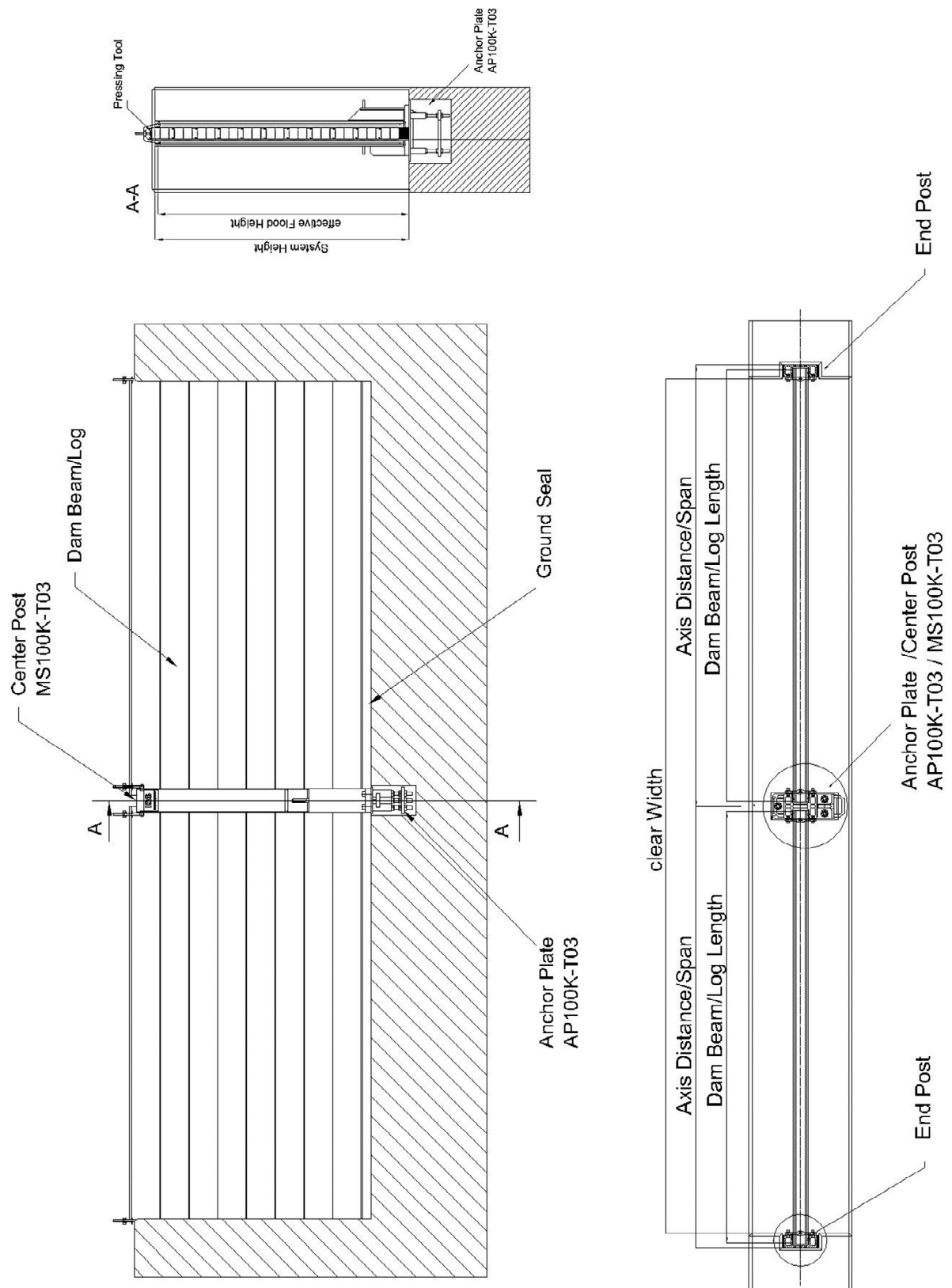
Specific Weight Water: 10kN/m³.

1.3 Definition of Terms

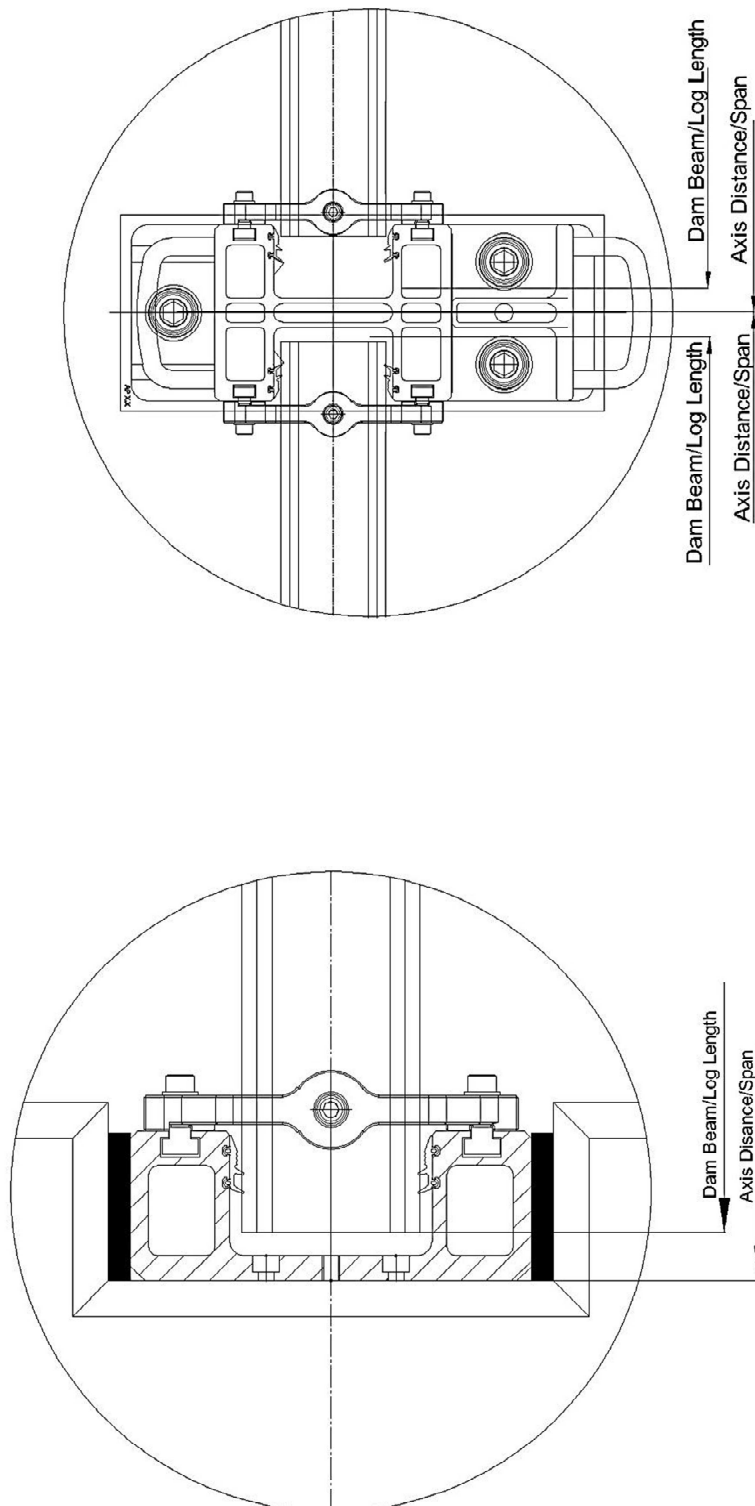
1.3.1 Flood Barrier HW-B100K



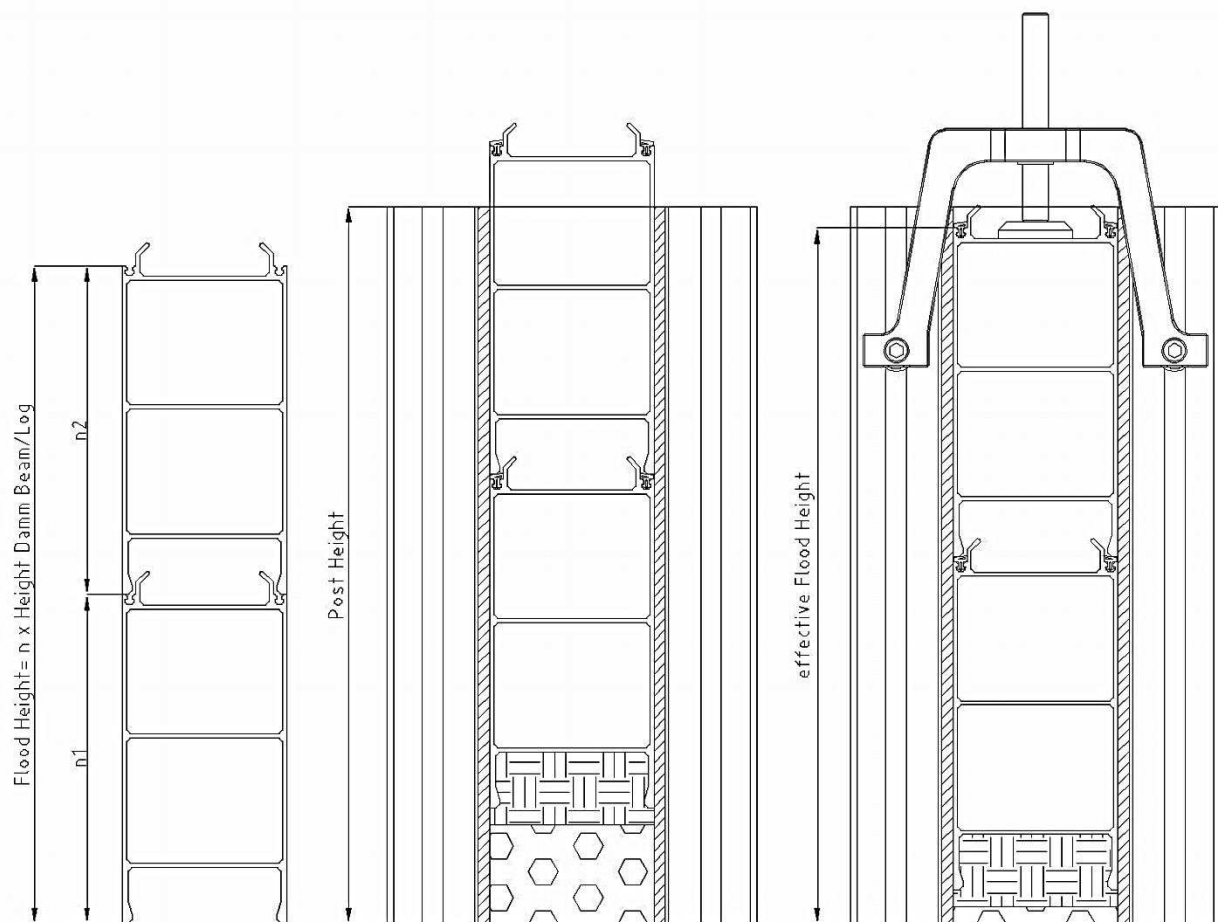
1.3.2 Flood Protection Walls HW-W100K



1.3.3 Axis Distance and Log Length 100K



1.3.4 Flood Height, effective Flood Height, Post Height

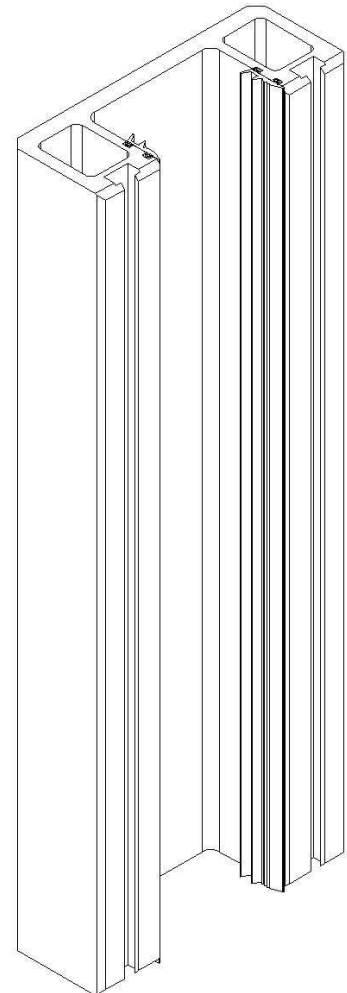
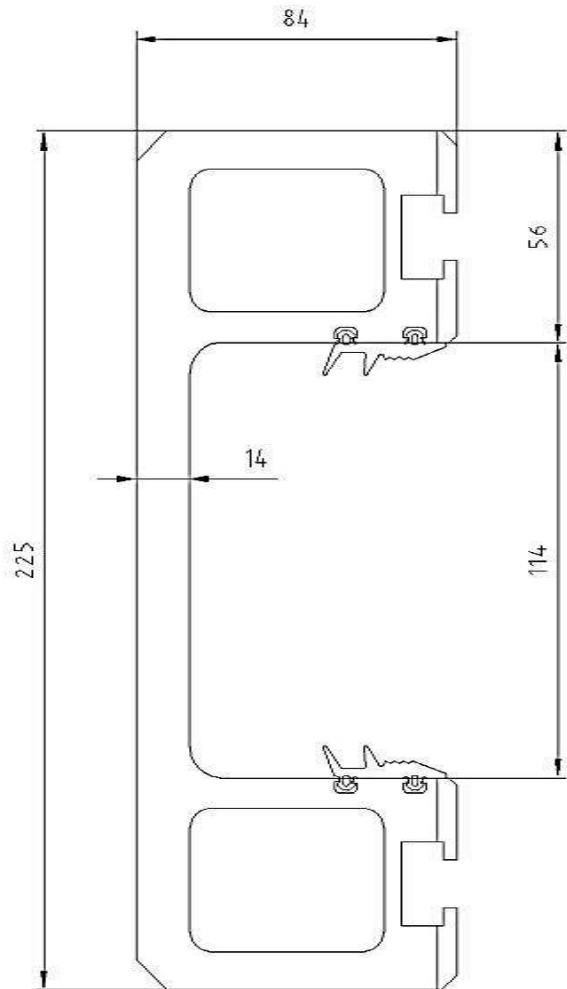


DBAL100x150-2,5 / 100x150-5,0			
NUMBER OF DAM BEAMS/LOGS	FLOOD HEIGHT [MM]	EFFECTIVE FLOOD HEIGHT [MM]	POST HEIGHT [MM]
1	150	165	185
2	300	317	335
3	450	469	490
4	600	621	640
5	750	773	795
6	900	925	950
7	1050	1077	1100
8	1200	1229	1255
9	1350	1381	1405
10	1500	1533	1560
11	1650	1685	1715
12	1800	1837	1865
13	1950	1989	2020
14	2100	2141	2170
15	2250	2293	2325
16	2400	2445	2480
17	2550	2597	2630
18	2700	2749	2810
19	2850	2901	2935
20	3000	3053	3090

DBAL100x200-2,5 / 100x200-3,7			
NUMBER OF DAM BEAMS/LOGS	FLOOD HEIGHT [MM]	EFFECTIVE FLOOD HEIGHT [MM]	POST HEIGHT [MM]
1	200	225	235
2	400	427	435
3	600	619	640
4	800	821	840
5	1000	1023	1045
6	1200	1225	1255
7	1400	1427	1450
8	1600	1629	1655
9	1800	1831	1865
10	2000	2033	2060
11	2200	2235	2265
12	2400	2437	2480
13	2600	2639	2670
14	2800	2841	2870
15	3000	3043	3090

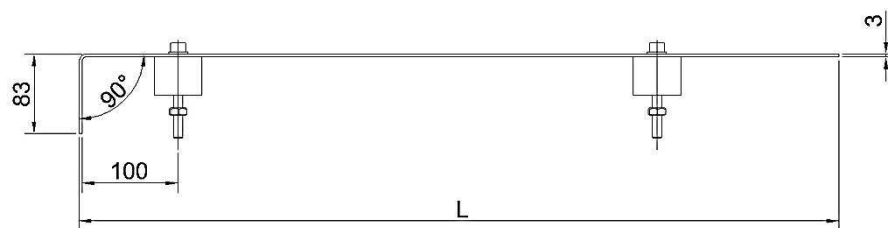
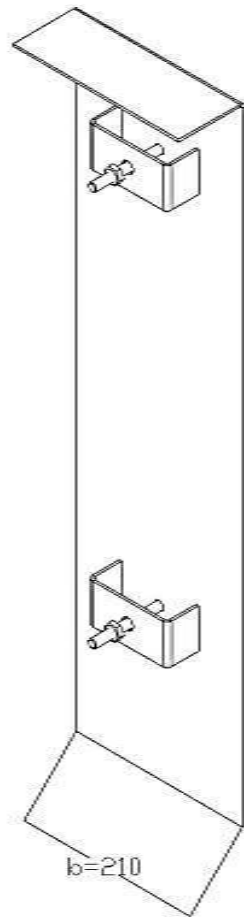
2 System Components

2.1 End Post E100K



PROFILE CHARACTERISTICS		
Height	mm	225
Width	mm	84
Thickness	mm	14
Cross-sectional area	cm ²	64,1
Weight per linear m	kg/m	17,3
Material	-	EN AW-6005-T6
Moment of inertia	cm ⁴	509
Modulus of elasticity E	N/mm ²	70.000

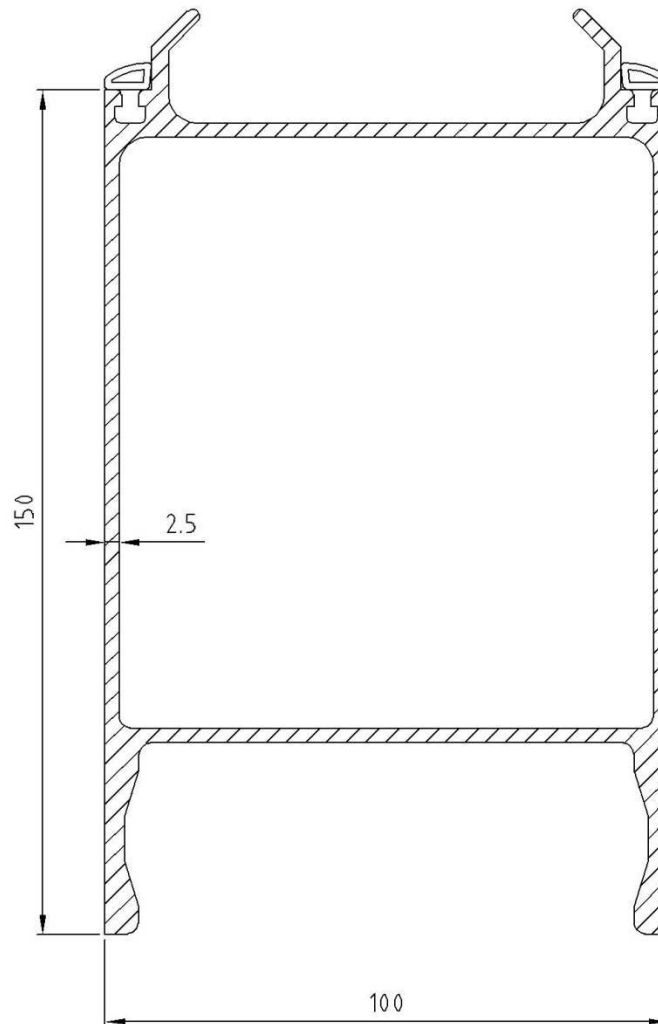
2.2 Cover for End Post AD100K



LEGEND	
L	Cover Length
b	Cover Width [mm]
Material	Stainless Steel, Grade: SS 304

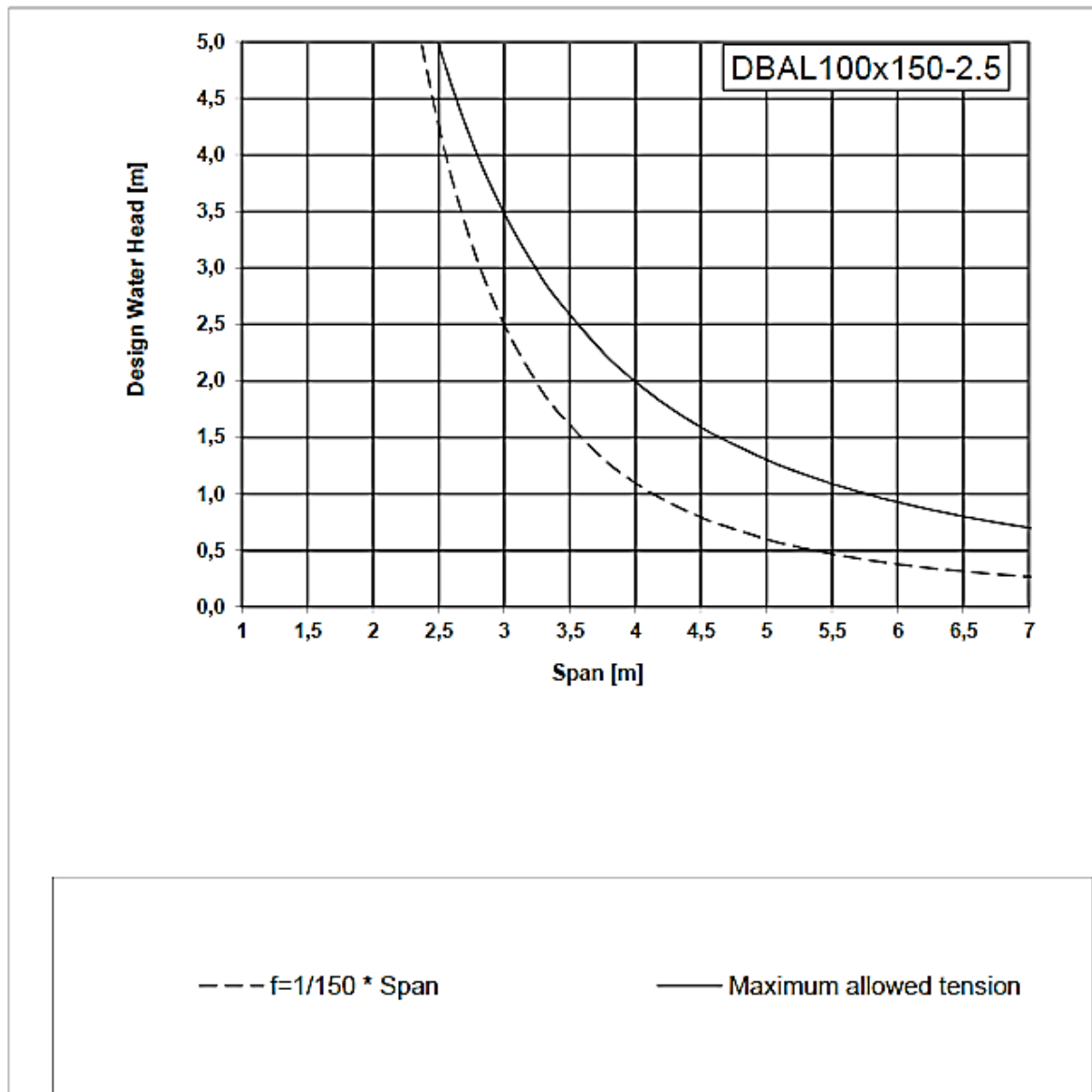
2.3 Dam Beam/Logs

2.3.1 DBAL100x150-2.5

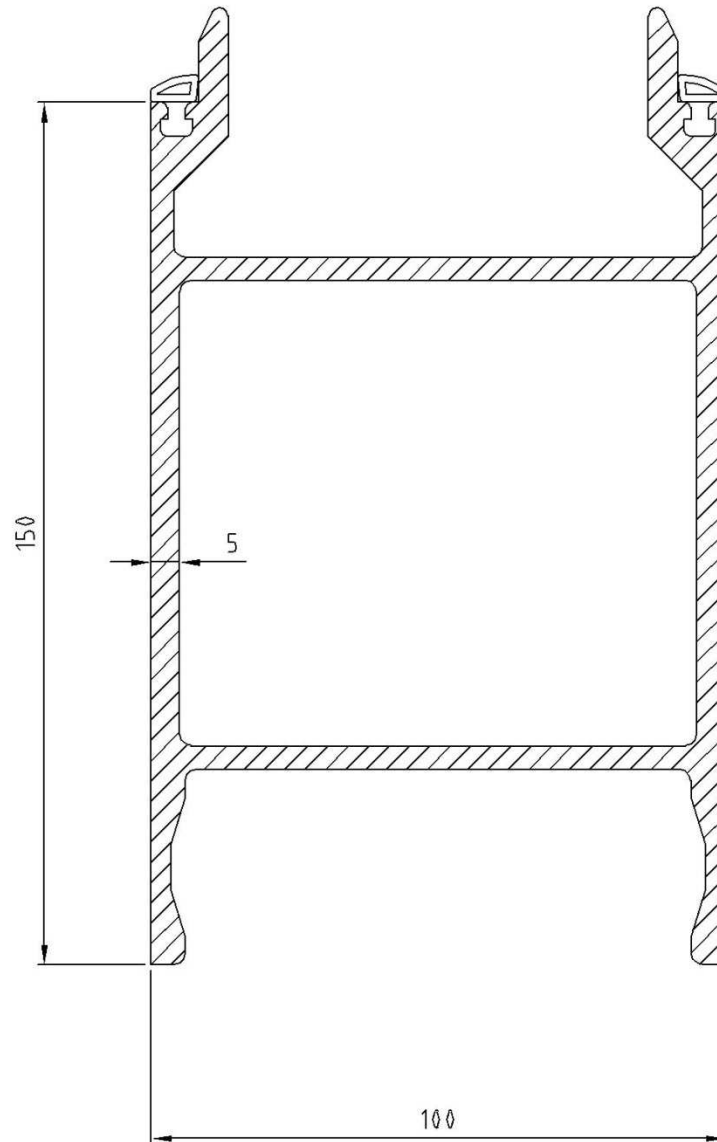


PROFILE CHARACTERISTICS		
Height	mm	150
Width	mm	100
Thickness	mm	2,5
Cross-sectional area	cm ²	15,5
Weight per linear m	kg/m	4,2
Material	-	EN AW-6063-T66
Moment of inertia	cm ⁴	274
Modulus of elasticity E	N/mm ²	70.000

Deflection Graph DBAL100x150-2.5

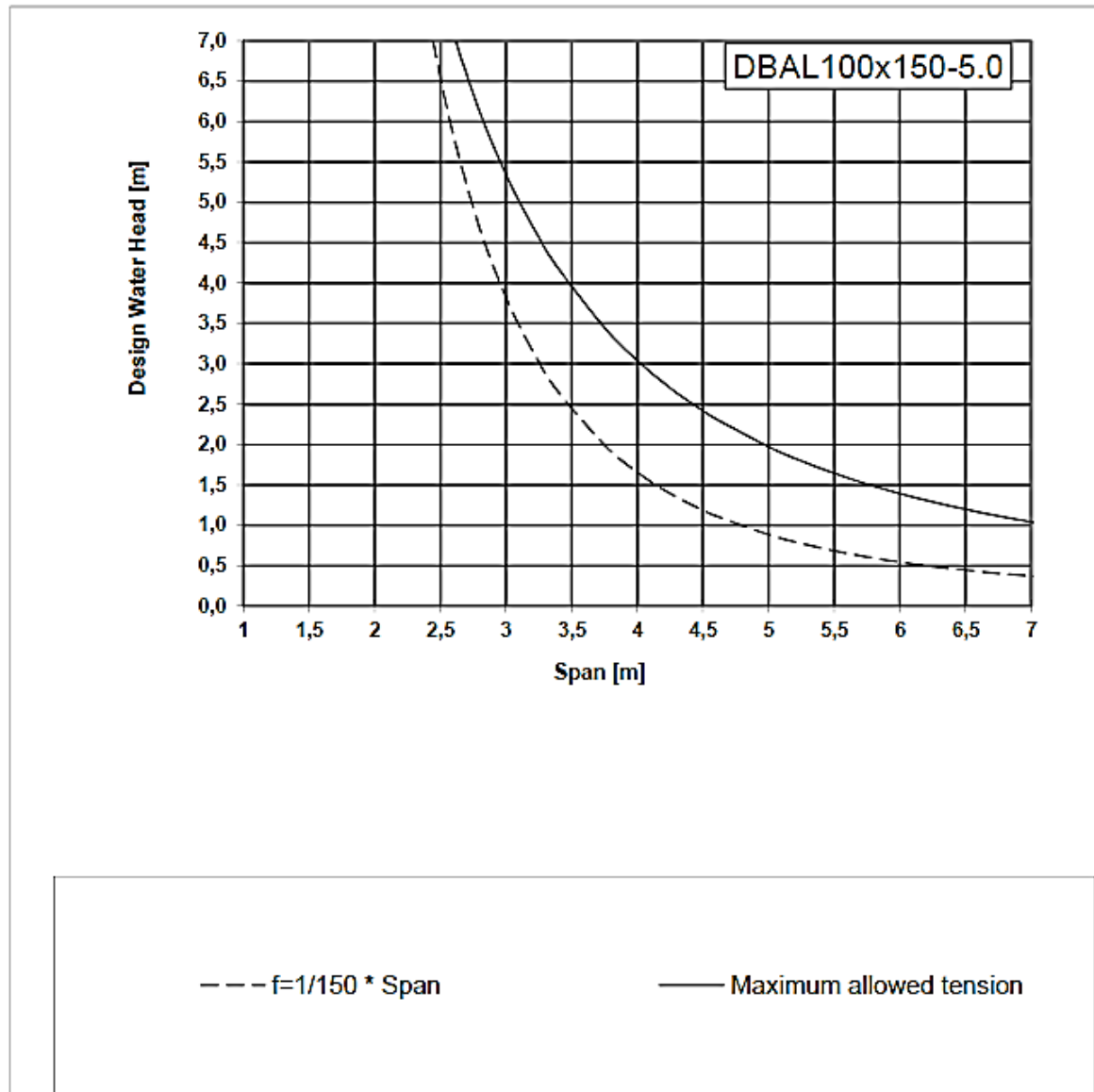


2.3.2 DBAL100x150-5.0

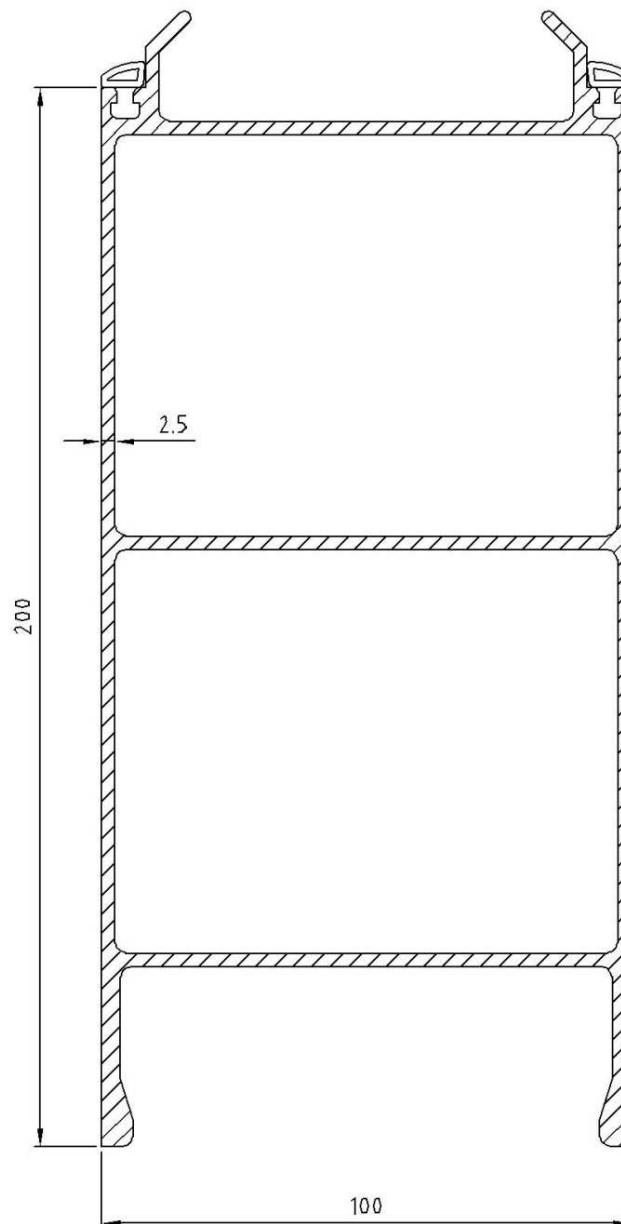


PROFILE CHARACTERISTICS		
Height	mm	150
Width	mm	100
Thickness	mm	5,0
Cross-sectional area	cm ²	24,7
Weight per linear m	kg/m	6,7
Material	-	EN AW-6063-T66
Moment of inertia	cm ⁴	423,5
Modulus of elasticity E	N/mm ²	70.000

Deflection Graph DBAL100x150-5.0

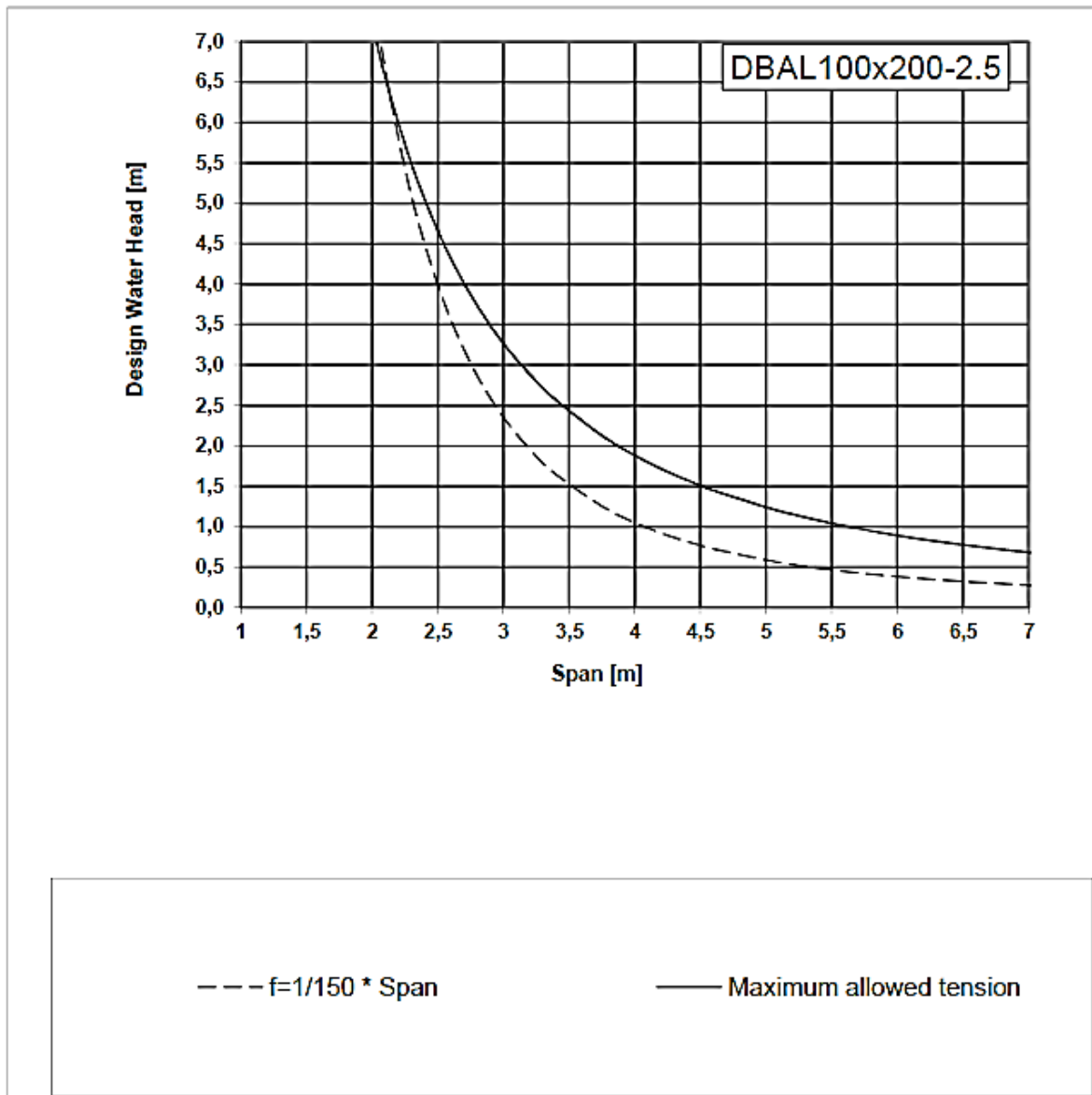


2.3.3 DBAL100x200-2.5

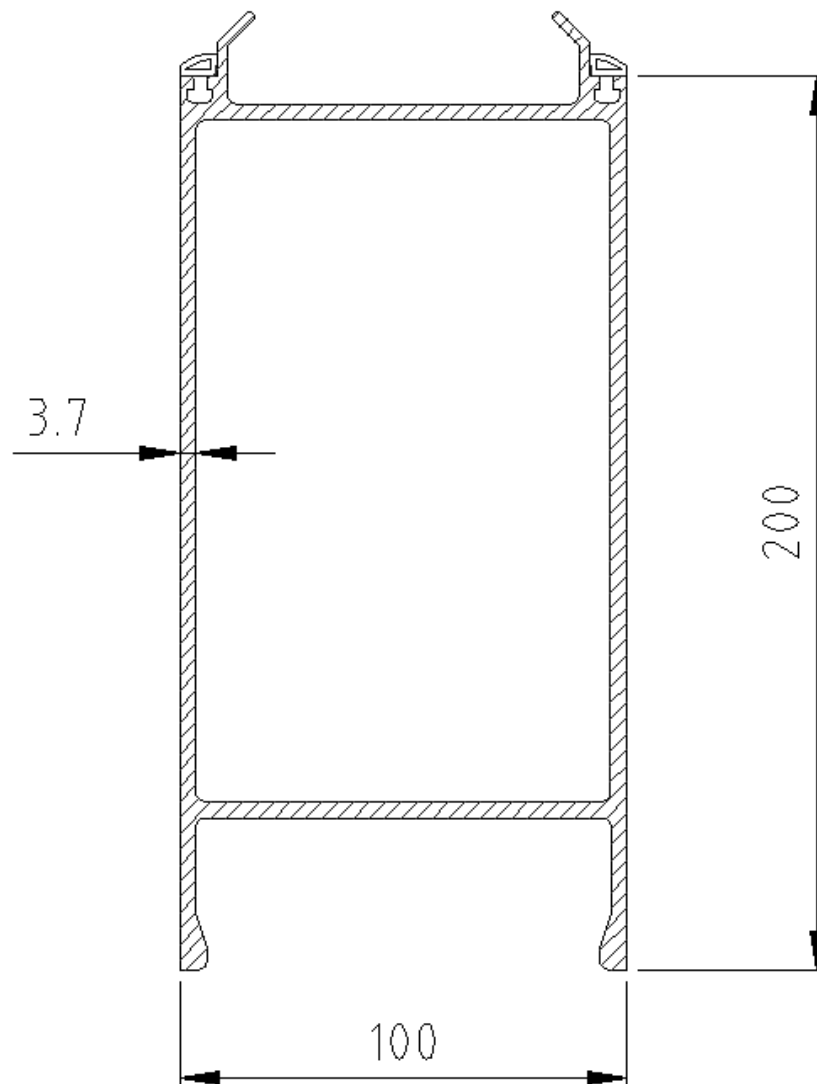


PROFILE CHARACTERISTICS		
Height	mm	200
Width	mm	100
Thickness	mm	2,5
Cross-sectional area	cm ²	19,7
Weight per linear m	kg/m	5,3
Material	-	EN AW-6063-T66
Moment of inertia	cm ⁴	339,5
Modulus of elasticity E	N/mm ²	70.000

Deflection Graph DBAL100x200-2.5

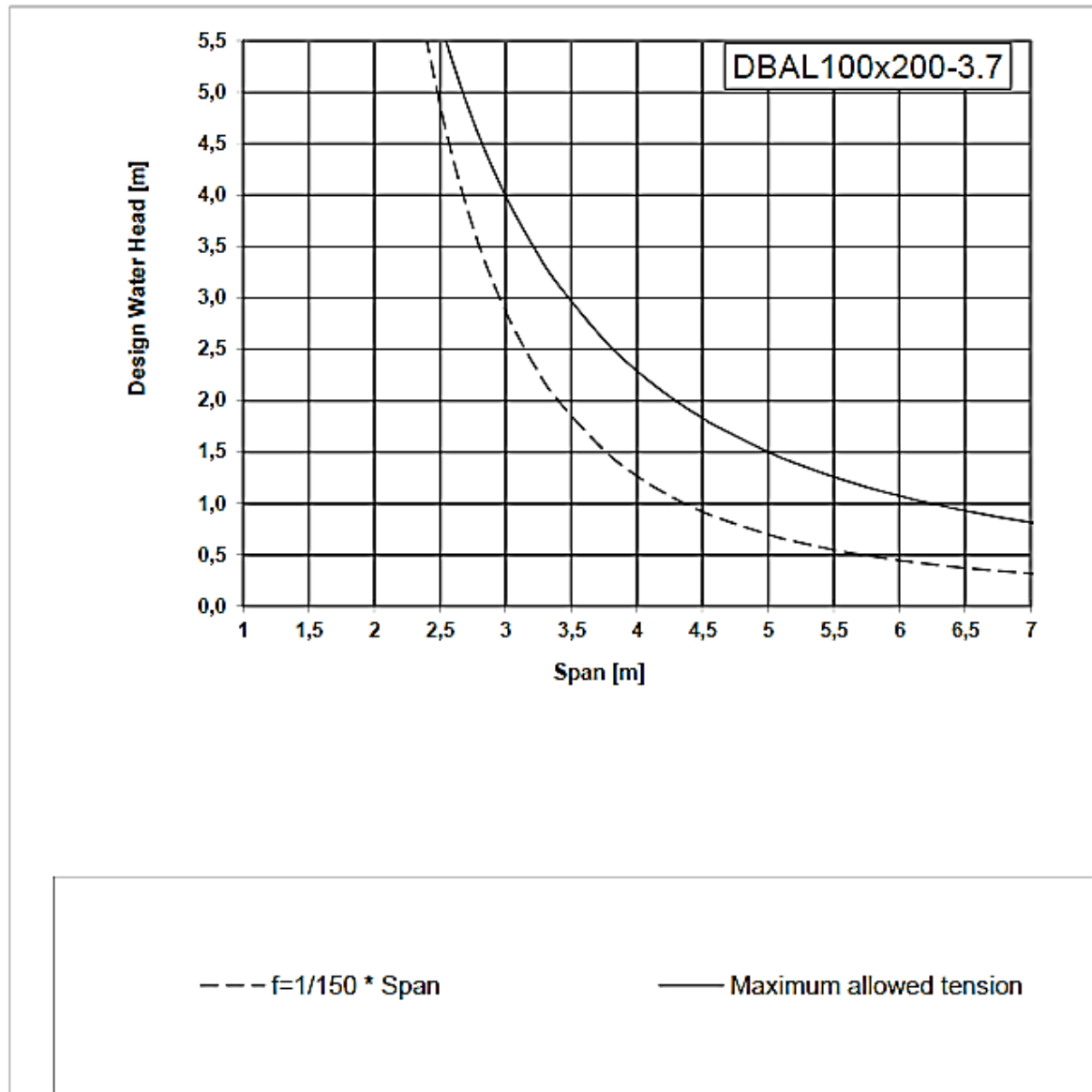


2.3.4 DBAL100x200-3.7



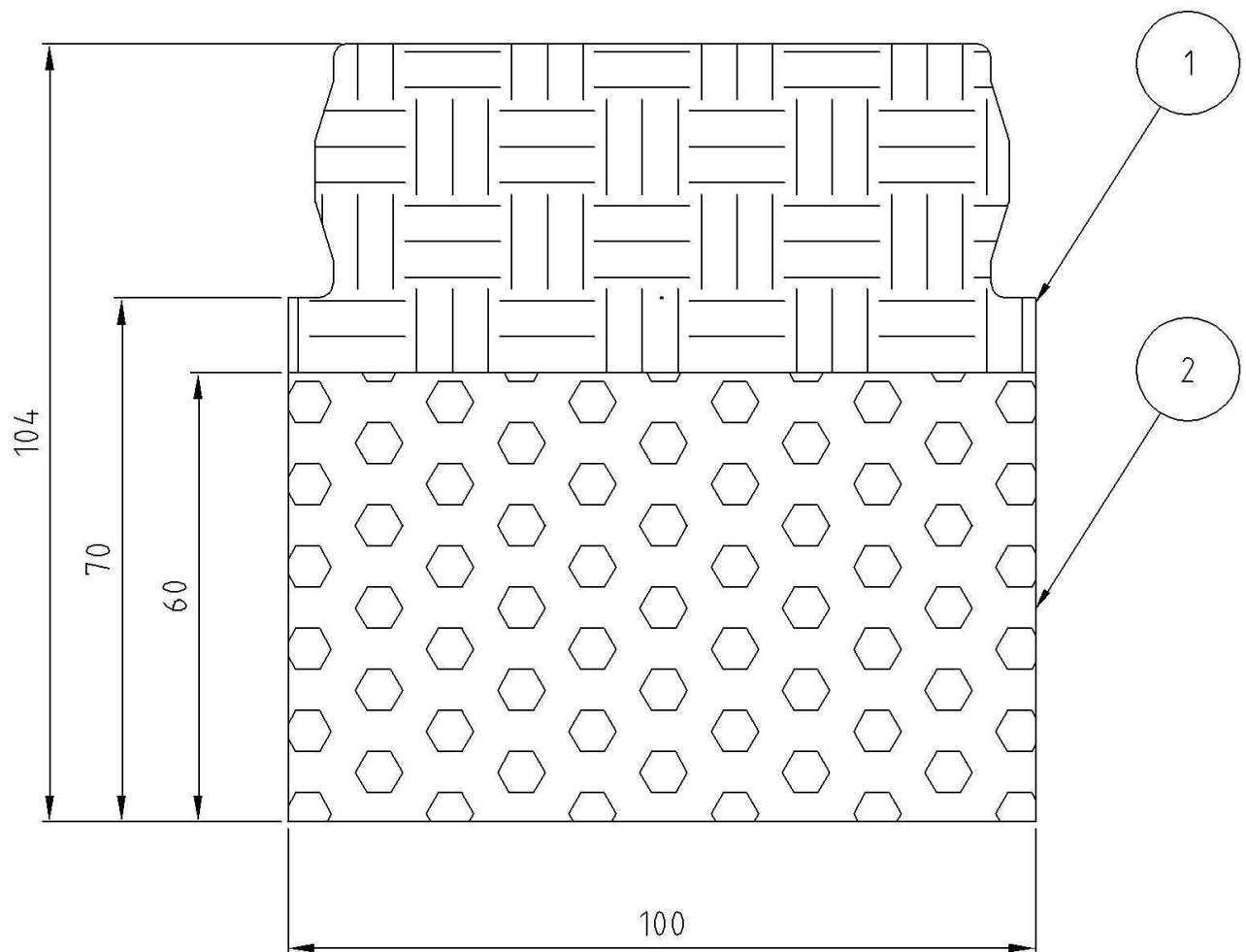
PROFILE CHARACTERISTICS		
Height	mm	200
Width	mm	100
Thickness	mm	3,7
Cross-sectional area	cm ²	23,1
Weight per linear m	kg/m	6,2
Material	-	EN AW-6063-T66
Moment of inertia	cm ⁴	417
Modulus of elasticity E	N/mm ²	70.000

Deflection Graph DBAL100x200-3.7



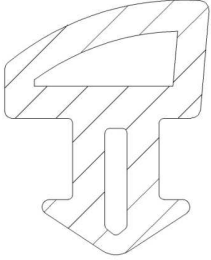
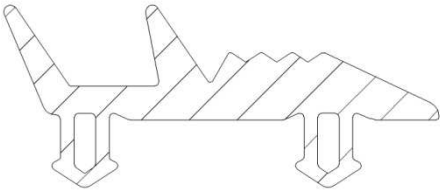
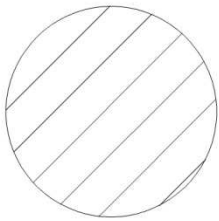
2.4 Seals

2.4.1 Ground Seal BD100_PE/PU



LEGEND	
Material Pos 1	PE (Polyethylene)
Material Pos 2	PU (Polyurethane)
Weight per linear m	1,007kg/m

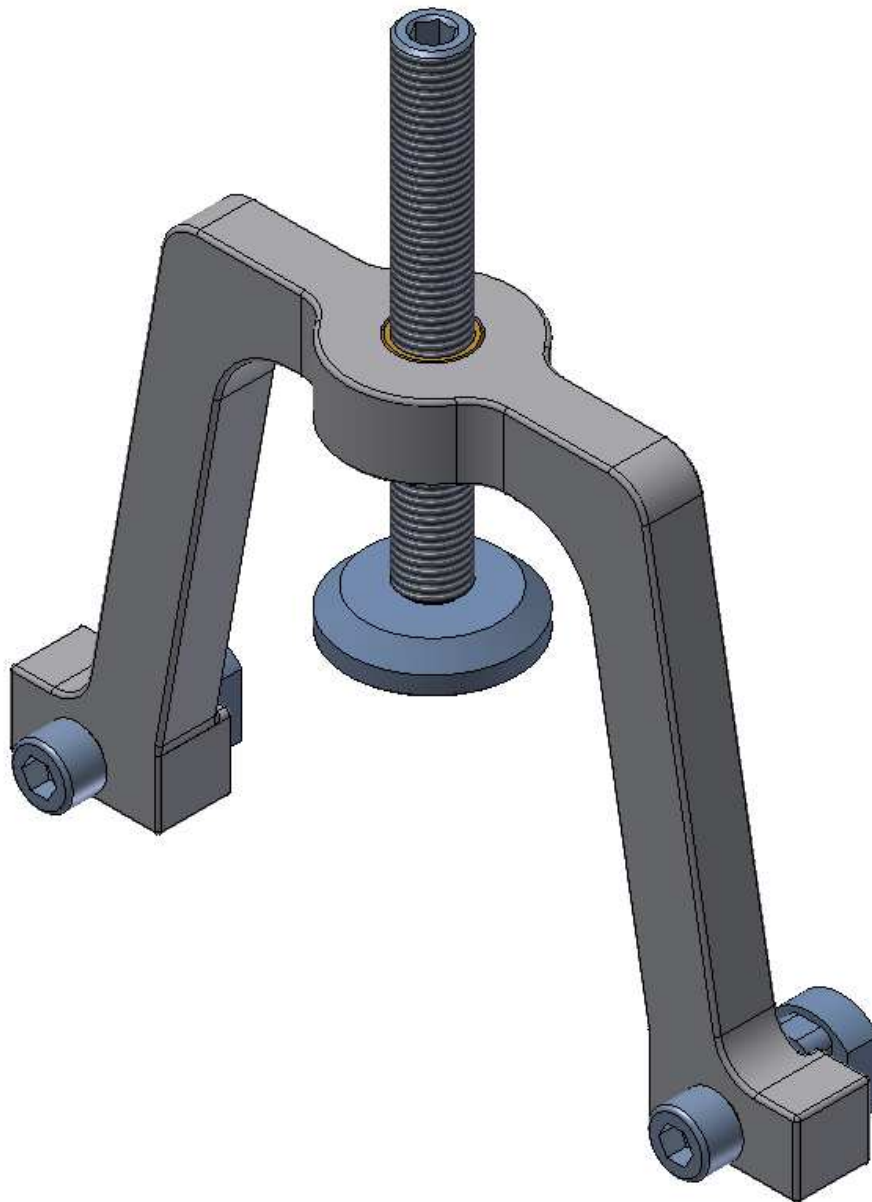
2.4.2 Dam Beams/Logs, End Posts, Center Posts

Dam Beam / Log Clamping Seal	
Post Seal	
Center Post Foot Seal	

LEGEND	
Material	Ethylene Propylene Diene Monomer rubber (EPDM)

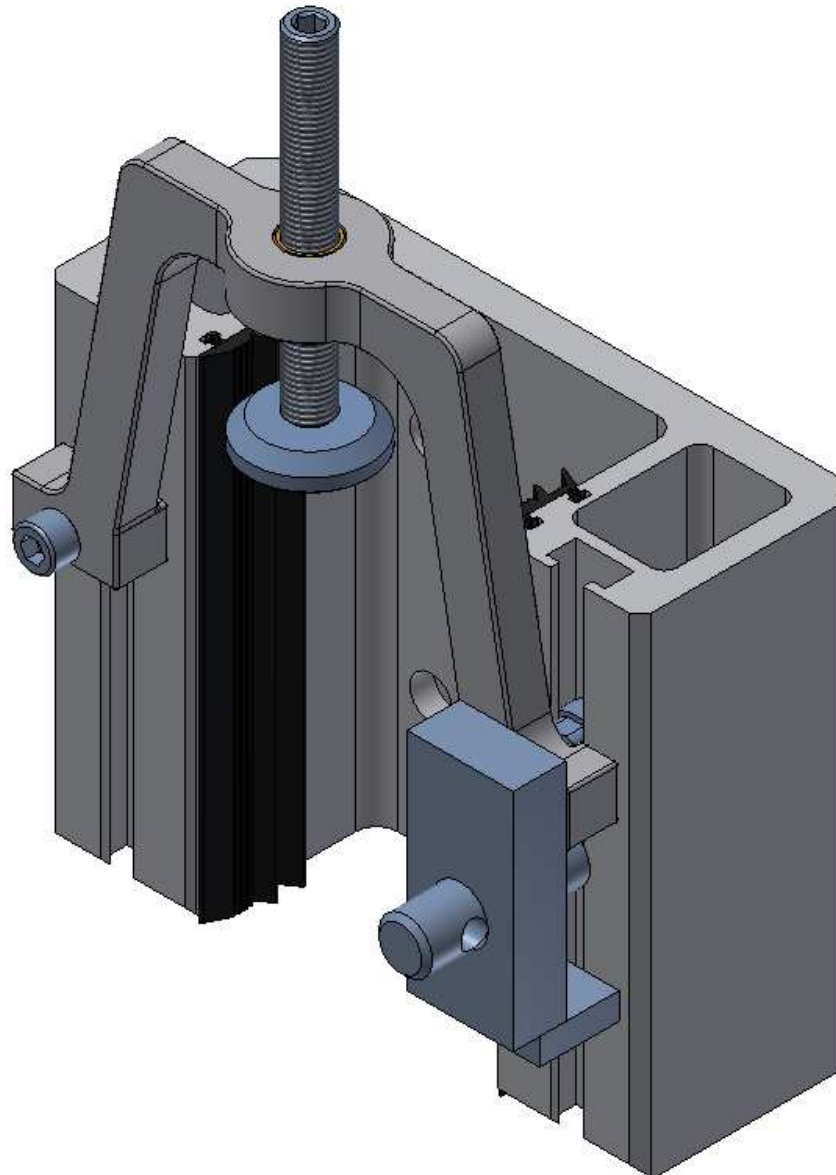
2.5 Pressing Tool

2.5.1 VS100K



LEGEND	
Material	Aluminium
Incl. Brass bush to prevent cold welds	

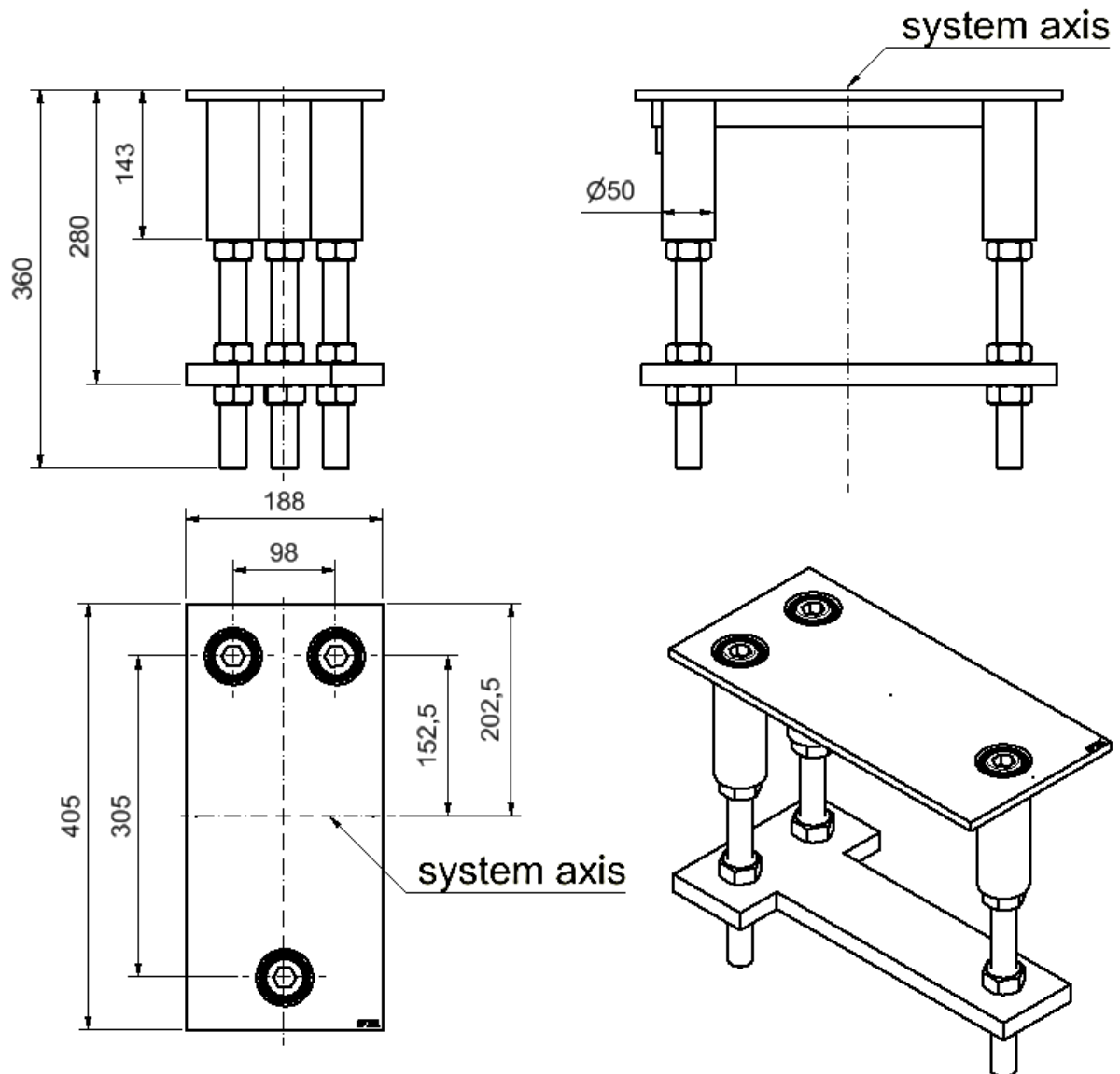
2.5.2 VS100K lockable



LEGEND	
Material	Stainless Steel, Grade.: SS 304
Incl. Brass bush to prevent cold welds	

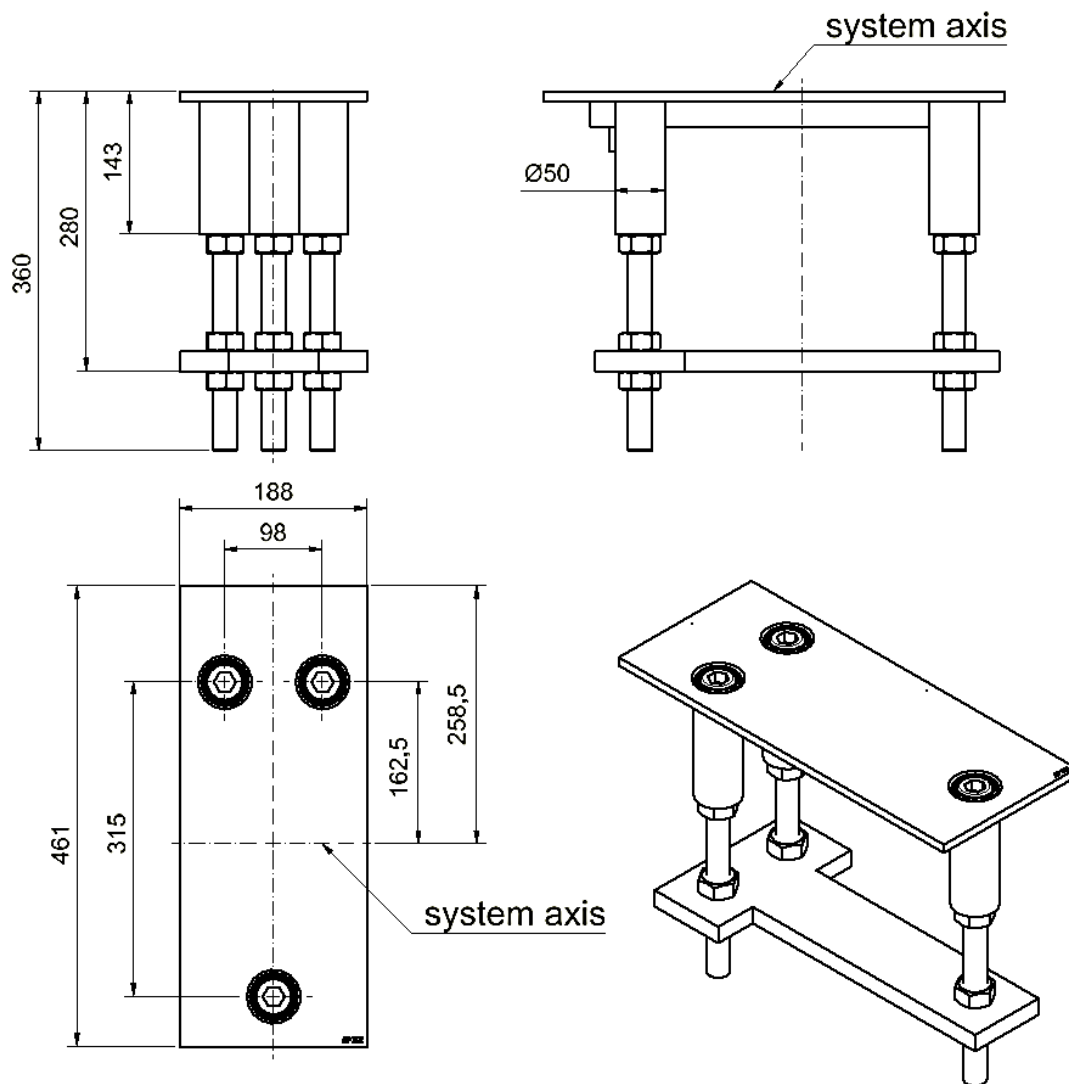
2.6 Anchor Plate

2.6.1 Ap100K-T01



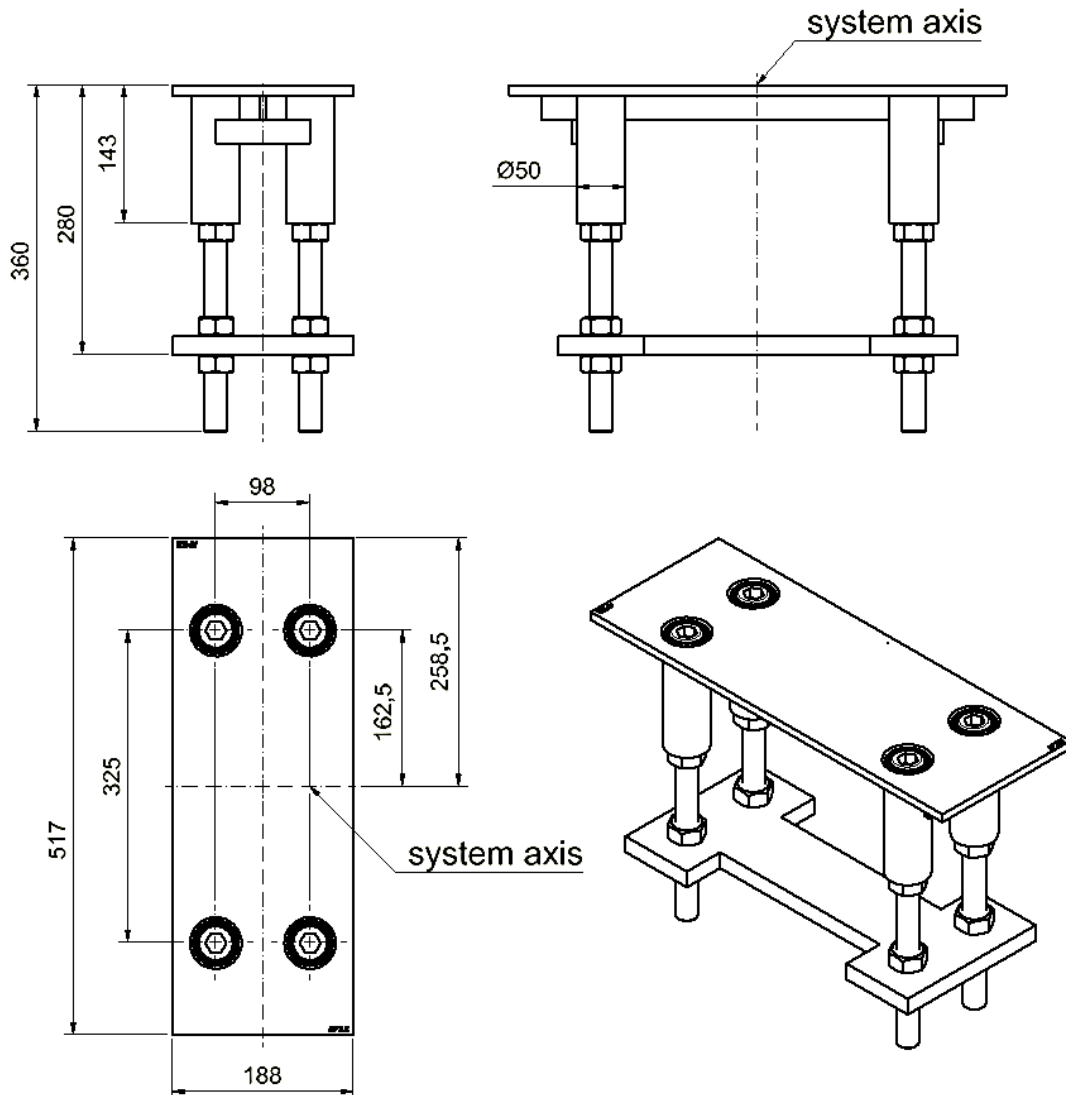
Coverplate	Stainless Steel, Grade.: SS 304
Bushes	Stainless Steel, Grade.: SS 304
Reinforcement Spindles	Mild Steel, Grade: S235; 8.8 blanc
Reinforcement Plate	Mild Steel, Grade: S235
Nuts	Mild Steel, Grade: S235; 8.8
Dummy Bolt (cylinder head bolt)	DIN912 M24x40 A4-70

2.6.2 AP100K-T03



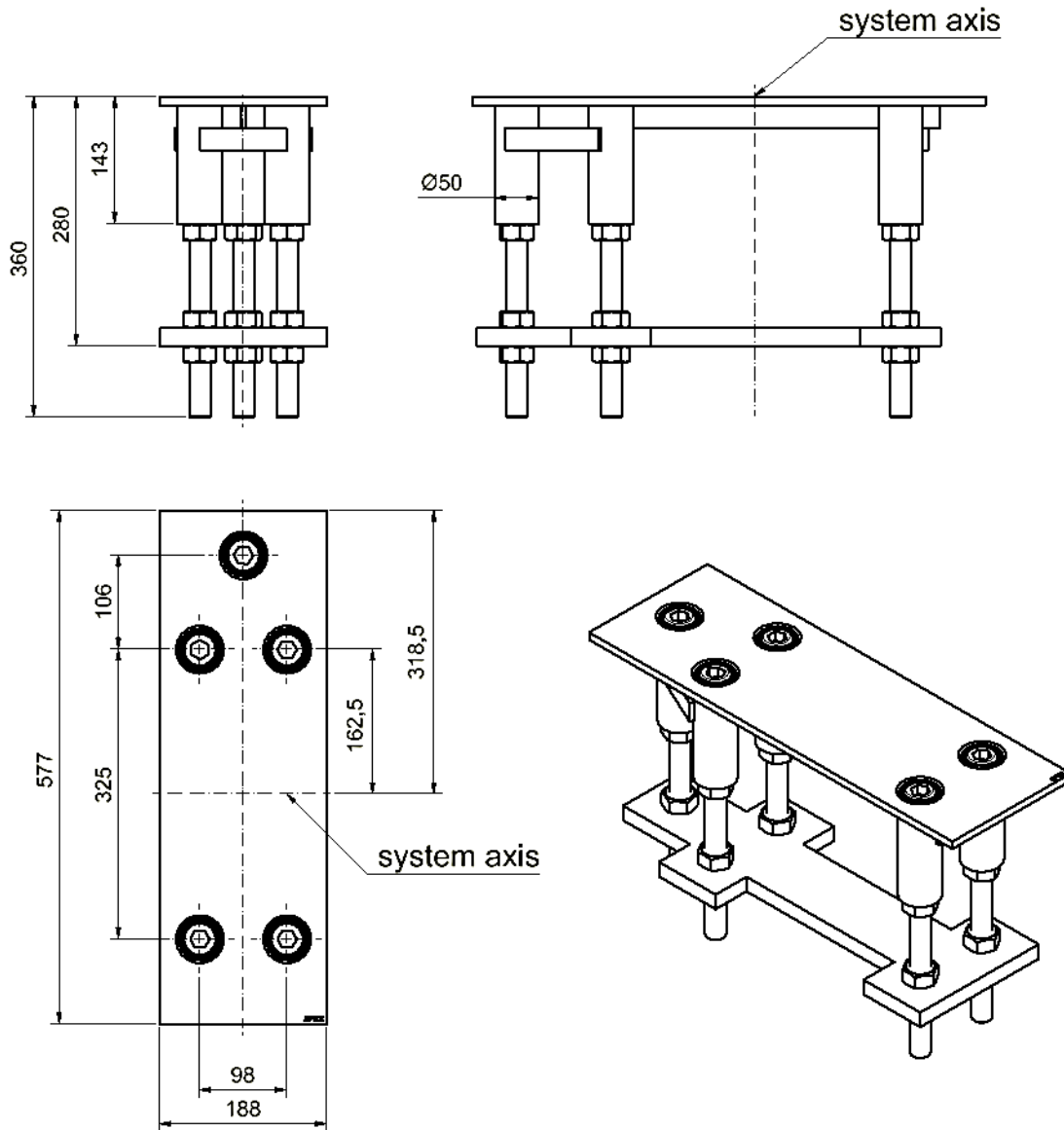
Coverplate	Stainless Steel, Grade.: SS 304
Bushes	Stainless Steel, Grade.: SS 304
Reinforcement Spindles	Mild Steel, Grade: S235; 8.8 blanc
Reinforcement Plate	Mild Steel, Grade: S235
Nuts	Mild Steel, Grade: S235; 8.8
Dummy Bolt (cylinder head bolt)	DIN912 M24x40 A4-70

2.6.3 AP100K-T04



Coverplate	Stainless Steel, Grade.: SS 304
Bushes	Stainless Steel, Grade.: SS 304
Reinforcement Spindles	Mild Steel, Grade: S235; 8.8 blanc
Reinforcement Plate	Mild Steel, Grade: S235
Nuts	Mild Steel, Grade: S235; 8.8
Dummy Bolt (cylinder head bolt)	DIN912 M24x40 A4-70

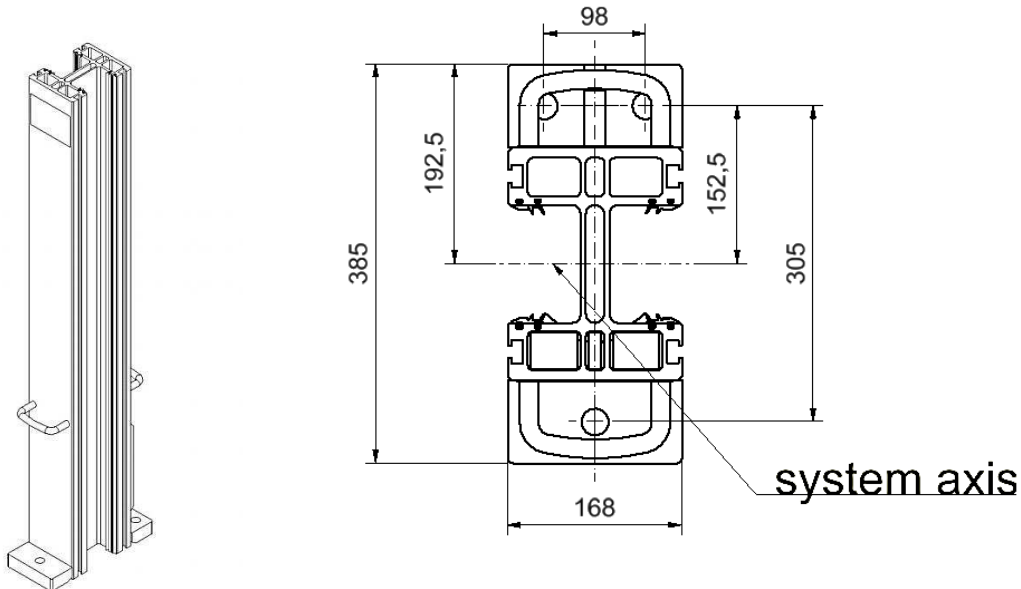
2.6.4 AP100K-T05



Coverplate	Stainless Steel, Grade.: SS 304
Bushes	Stainless Steel, Grade.: SS 304
Reinforcement Spindles	Mild Steel, Grade: S235; 8.8 blanc
Reinforcement Plate	Mild Steel, Grade: S235
Nuts	Mild Steel, Grade: S235; 8.8
Dummy Bolt (cylinder head bolt)	DIN912 M24x40 A4-70

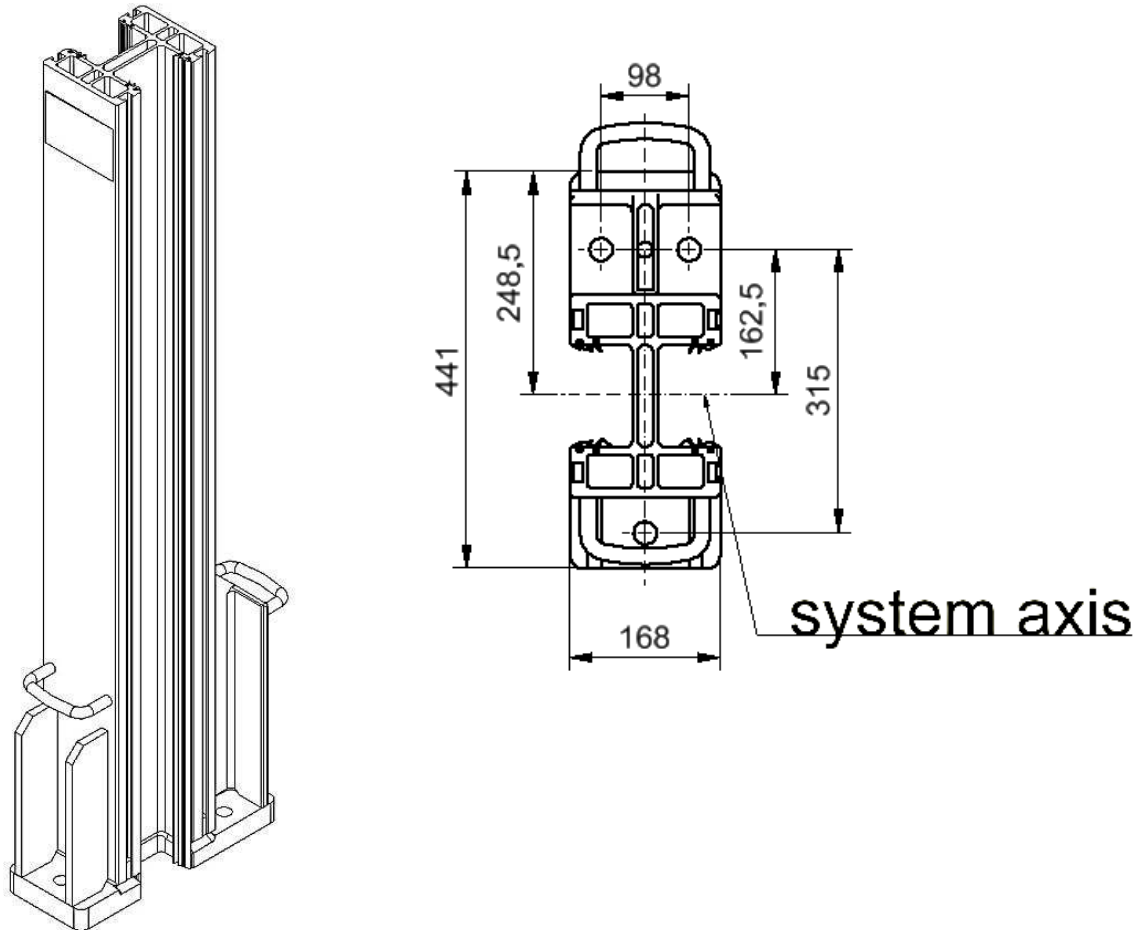
2.7 Center Post

2.7.1 MS100K-T01



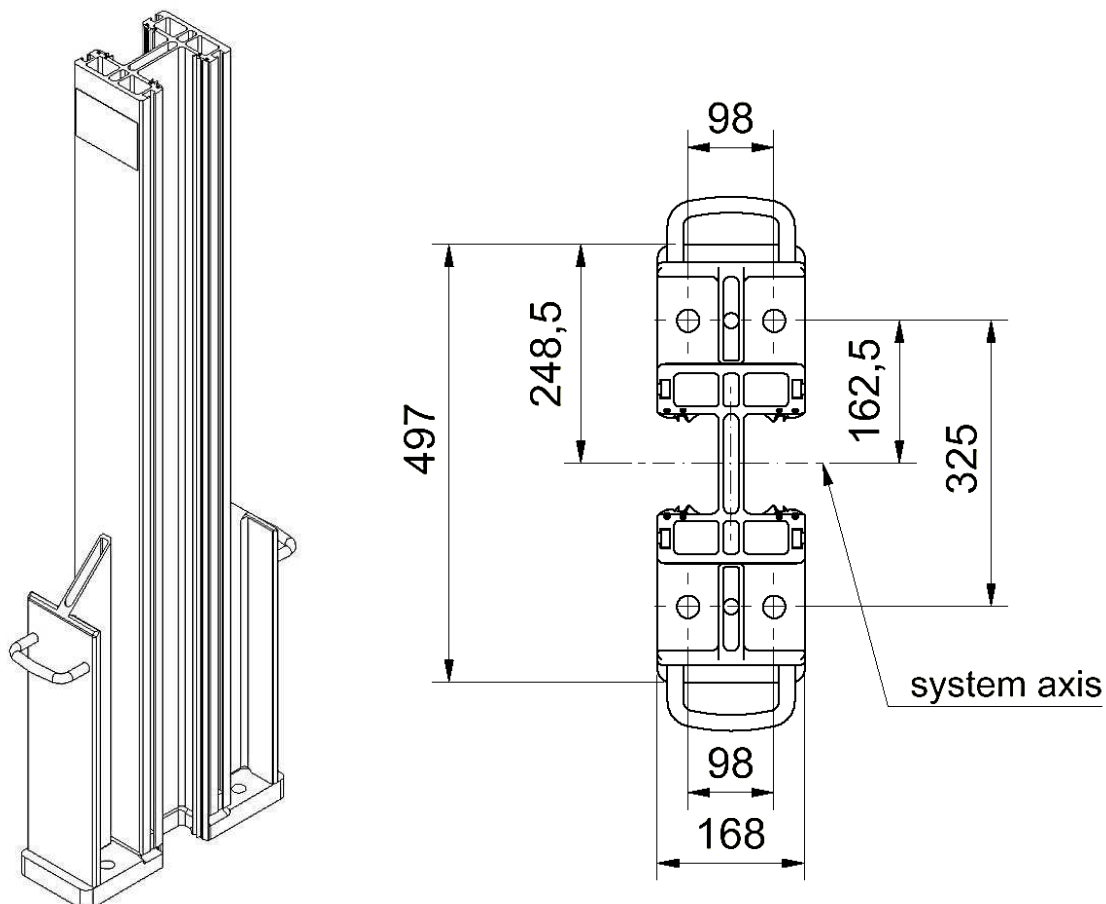
LEGEND				
Description	Flood Height [mm]	Max. Axis Distance/Span a [mm]	Weight [kg]	Material
MS100K-T01-185	150	6000	5,9	EN AW 6005-T6
MS100K-T01-235	200	6000	7,5	
MS100K-T01-290	250	6000	9,3	
MS100K-T01-335	300	6000	10,7	
MS100K-T01-435	400	6000	13,9	
MS100K-T01-490	450	6000	15,7	
MS100K-T01-540	500	6000	17,3	
MS100K-T01-650	600	6000	20,8	
MS100K-T01-795	750	6000	25,5	
MS100K-T01-840	800	6000	26,7	
MS100K-T01-950	900	6000	30,4	
MS100K-T01-1045	1000	6000	31,8	
MS100K-T01-1100	1050	6000	35,2	
MS100K-T01-1255	1200	6000	37,6	
MS100K-T01-1295	1250	6000	38,6	
MS100K-T01-1405	1350	5500	41,5	
MS100K-T01-1450	1400	5100	43,5	
MS100K-T01-1560	1500	4450	45,6	
MS100K-T01-1655	1600	3900	48,0	
MS100K-T01-1715	1650	3650	49,6	
MS100K-T01-1800	1750	3250	52,2	
MS100K-T01-1865	1800	3000	53,6	

2.7.2 MS100K-T03



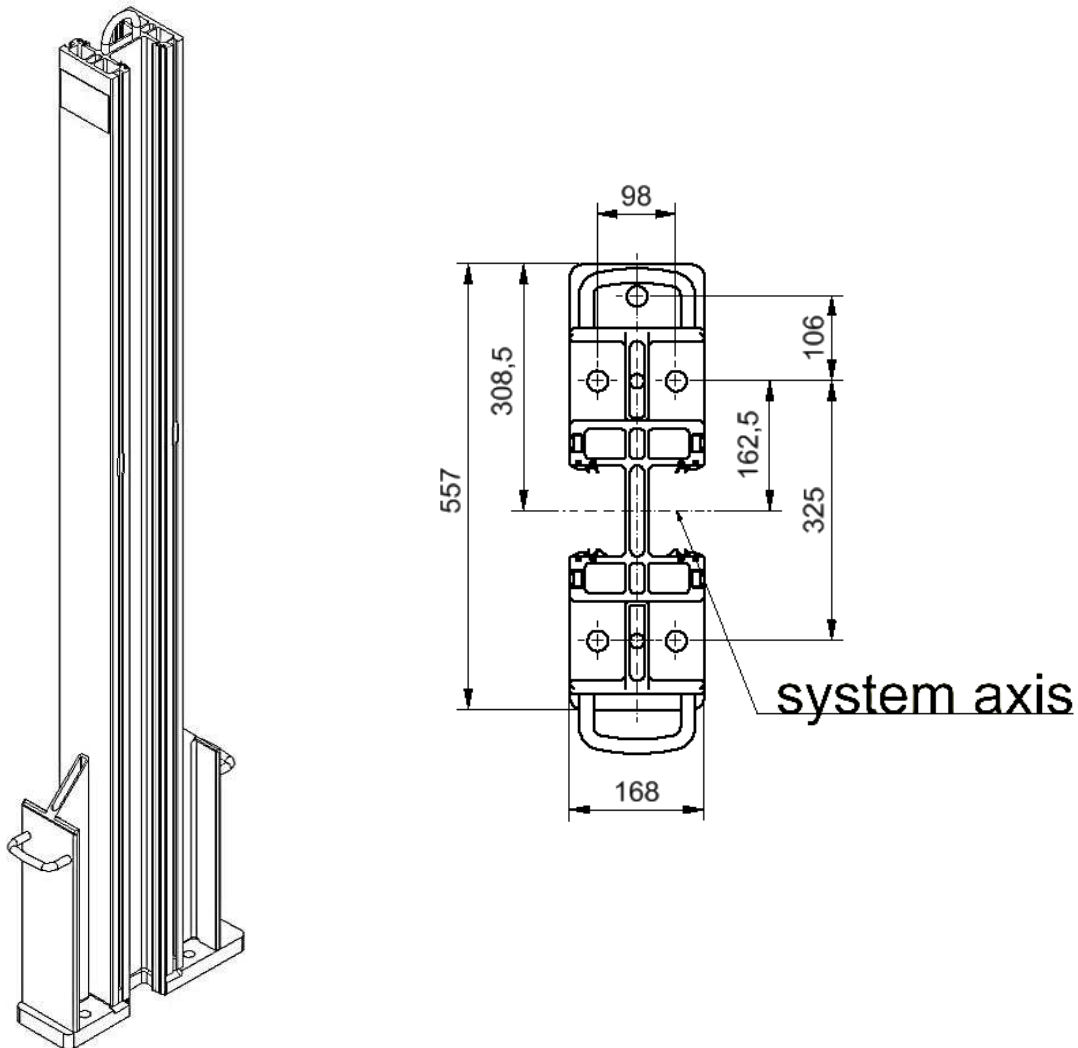
LEGEND				
Description	Flood Height [mm]	Max. Axis Distance/Span a [mm]	Weight [kg]	Material
MS100K-T03-1405	1350	6000	47,8	EN AW 6005-T6
MS100K-T03-1450	1400	6000	49,7	
MS100K-T03-1560	1500	6000	52,6	
MS100K-T03-1655	1600	6000	55,1	
MS100K-T03-1715	1650	6000	58,3	
MS100K-T03-1800	1750	6000	61,2	
MS100K-T03-1865	1800	4900	63,4	
MS100K-T03-2020	1950	4200	68,7	
MS100K-T03-2060	2000	4000	70,0	
MS100K-T03-2170	2100	3600	73,8	
MS100K-T03-2265	2200	3300	77,0	
MS100K-T03-2325	2250	3150	79,1	
MS100K-T03-2480	2400	2750	84,3	

2.7.3 MS100K-T04



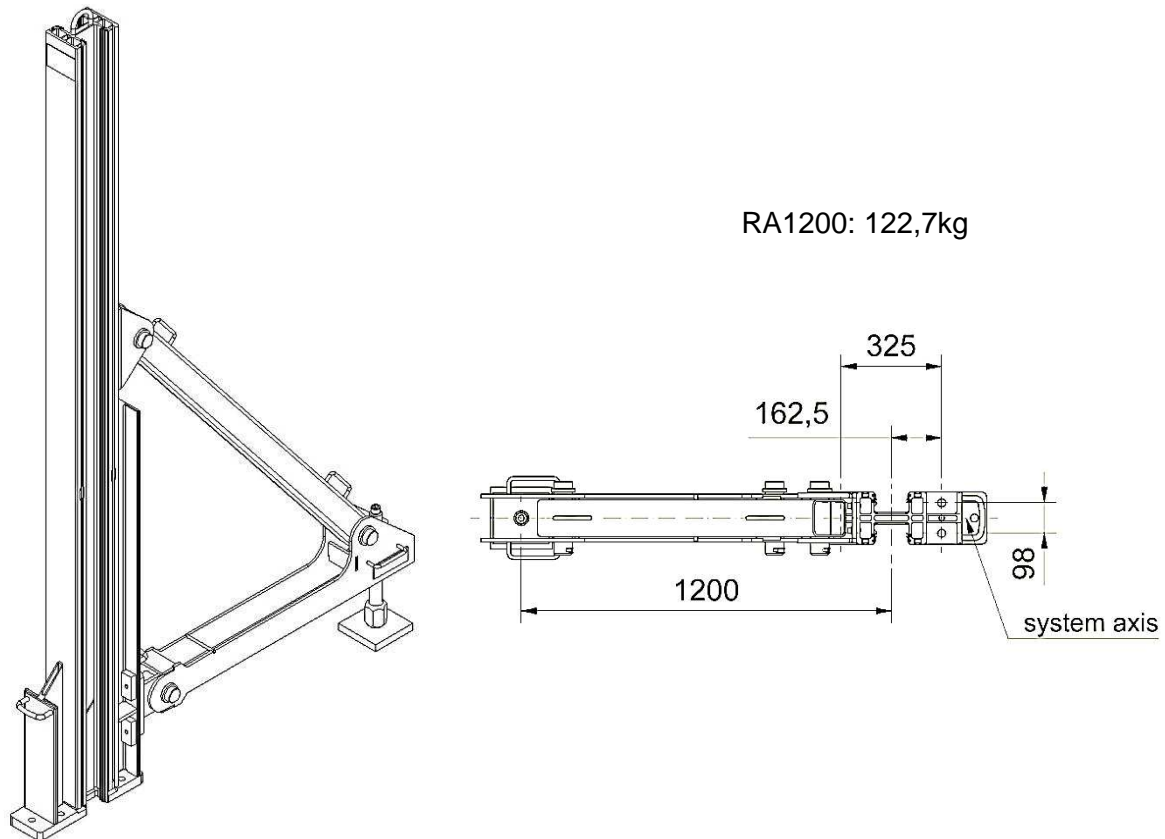
LEGEND				
Description	Flood Height [mm]	Max. Axis Distance/Span a [mm]	Weight [kg]	Material
MS100K-T04-1865	1800	6000	59,9	EN AW 6005-T6
MS100K-T04-2020	1950	5600	64,9	
MS100K-T04-2060	2000	5300	66,2	
MS100K-T04-2170	2100	4800	69,7	
MS100K-T04-2265	2200	4400	72,8	
MS100K-T04-2325	2250	4200	74,7	
MS100K-T04-2480	2400	3700	79,7	
MS100K-T04-2555	2500	3400	82,1	
MS100K-T04-2630	2550	3250	84,5	
MS100K-T04-2670	2600	3150	85,8	
MS100K-T04-2810	2750	2800	90,3	
MS100K-T04-2870	2800	2700	92,2	
MS100K-T04-2935	2850	2600	94,3	
MS100K-T04-3090	3000	2350	99,3	

2.7.4 MS100K-T05



LEGEND				
Description	Flood Height [mm]	Max. Axis Distance/Span a [mm]	Weight [kg]	Material
MS100K-T05-2480	2400	4600	80,6	EN AW 6005-T6
MS100K-T05-2555	2500	4250	83,0	
MS100K-T05-2630	2550	4100	85,5	
MS100K-T05-2670	2600	3900	86,8	
MS100K-T05-2810	2750	3300	91,3	
MS100K-T05-2870	2800	3150	93,3	
MS100K-T05-2935	2850	3000	95,4	
MS100K-T05-3090	3000	2550	100,4	
MS100K-T05-2345	3150	2200	105,4	
MS100K-T05-3310	3250	2000	107,5	

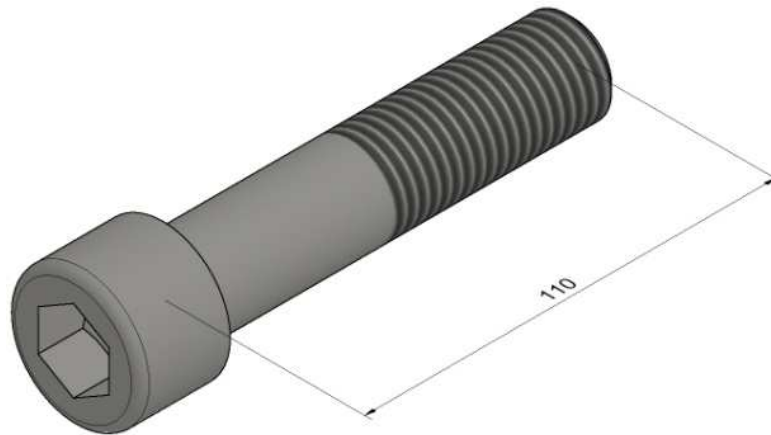
2.7.5 MS100K-T09-RA1200



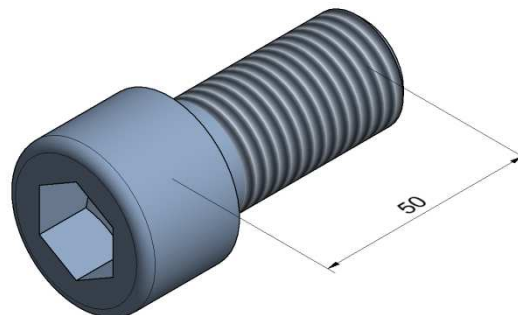
RA = back support

LEGEND				
Description	Flood Height [mm]	Max. Axis Distance/Span a [mm]	Weight without RA [kg]	Material
MS100K-T09-2555	2500	4250	116,2	EN AW 6005-T6
MS100K-T09-2630	2550	4100	119,6	
MS100K-T09-2670	2600	3900	121,4	
MS100K-T09-2810	2750	3500	127,8	
MS100K-T09-2870	2800	3400	130,5	
MS100K-T09-2935	2850	3250	133,5	
MS100K-T09-3090	3000	3000	140,5	
MS100K-T09-3245	3150	2650	147,5	
MS100K-T09-3310	3250	2550	150,5	
MS100K-T09-3395	3300	2500	154,4	
MS100K-T09-3480	3400	2300	158,2	
MS100K-T09-3565	3500	2150	162,1	
MS100K-T09-3700	3600	2050	168,2	

2.7.6 Bolts



1



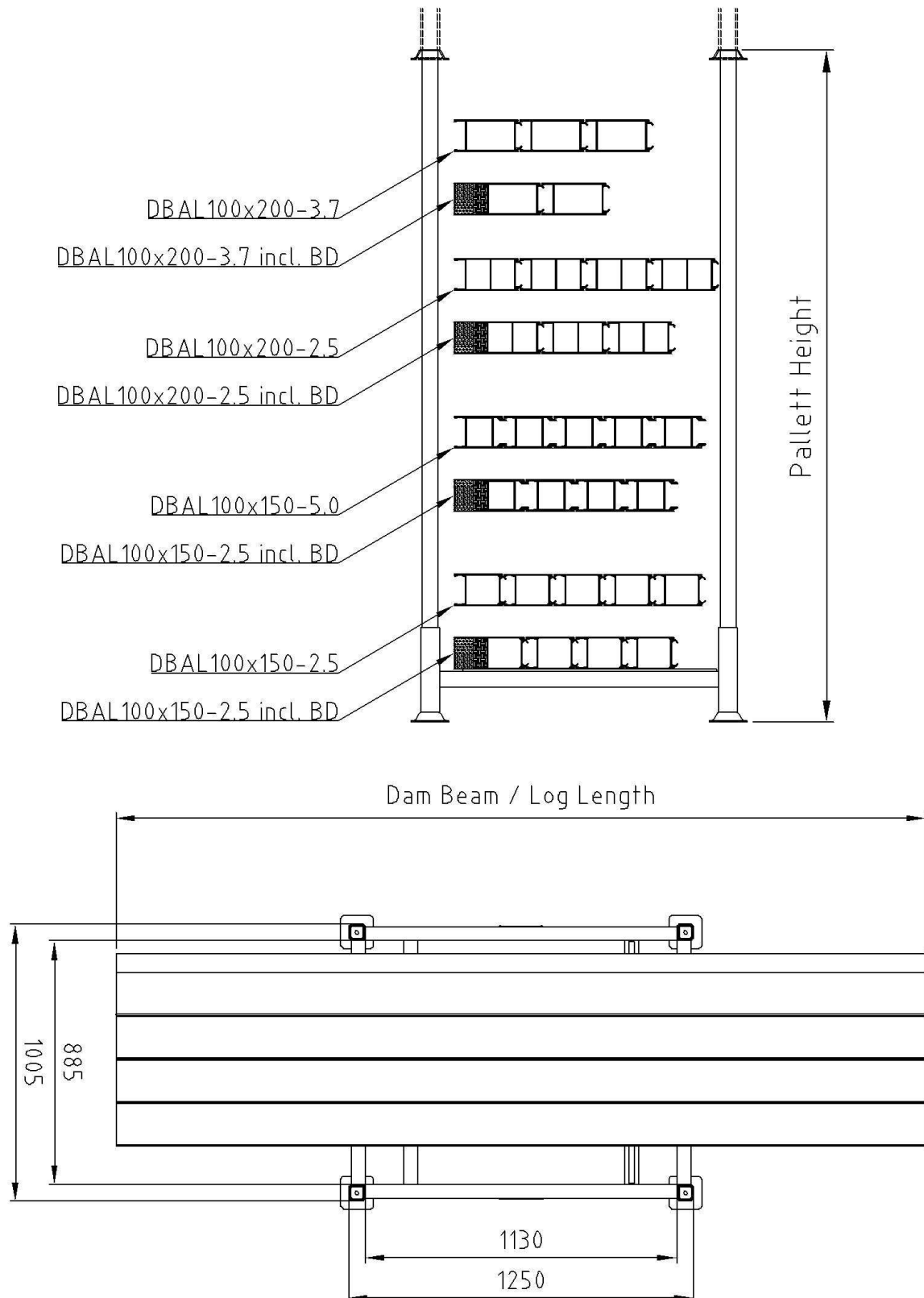
2

SYSTEM	FOOTNOTE	FUNCTION	DESCRIPTION
HW-W100K	1	Cylinder Head Center Post Bolt	DIN 912 M24x110 8.8 zinc flake coat
	2	Anchor Plate Dummy Bolt	DIN 912 M24x50 SS 304

3 Storage

3.1 Pallet

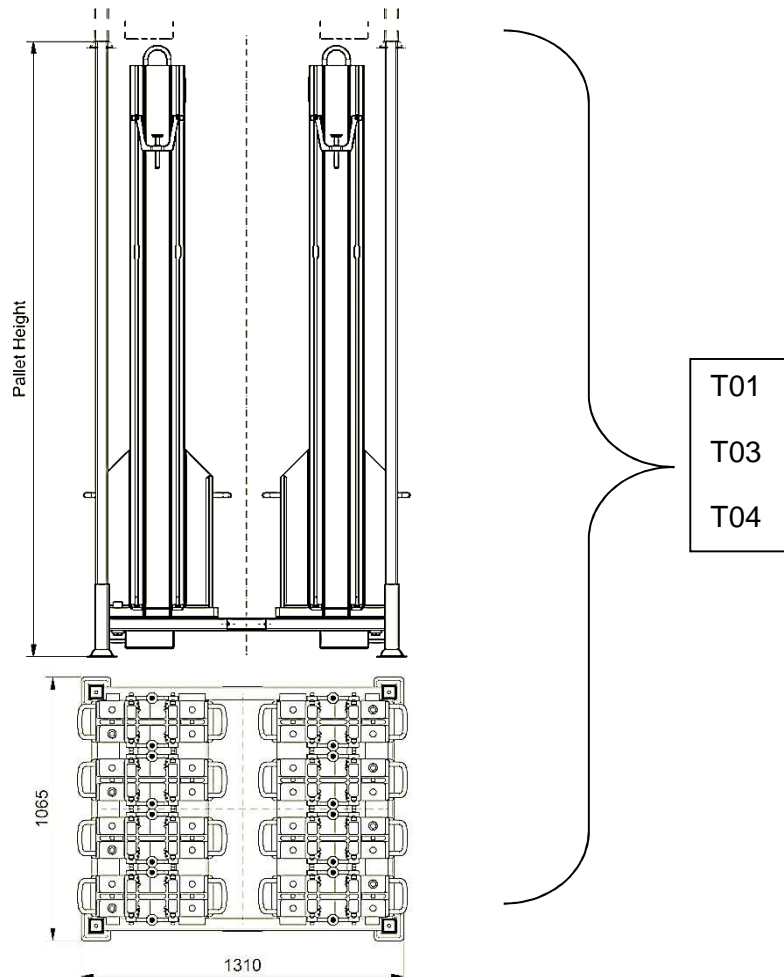
3.1.1 Dam Beams/Logs



Description	Pallet Height [mm]	Dam Beam	Max. Number of Layers	Number DB/Layer	
				Without BD100L	With BD100L
LT-P02-DB-800	830	DBAL100x150-2.5	5	5	4
LT-P02-DB-800	830	DBAL100x150-5.0	5	5	4
LT-P02-DB-800	830	DBAL100x200-2.5	5	4	3
LT-P02-DB-800	830	DBAL100x200-3.7	5	4	3
LT-P02-DB-1400	1430	DBAL100x150-2.5	10	5	4
LT-P02-DB-1400	1430	DBAL100x150-5.0	10	5	4
LT-P02-DB-1400	1430	DBAL100x200-2.5	10	4	3
LT-P02-DB-1400	1430	DBAL100x200-3.7	10	4	3
LT-P02-DB-2100	2130	DBAL100x150-2.5	17	5	4
LT-P02-DB-2100	2130	DBAL100x150-5.0	17	5	4
LT-P02-DB-2100	2130	DBAL100x200-2.5	17	4	3
LT-P02-DB-2100	2130	DBAL100x200-3.7	17	4	3

3.1.2 Center Post Pallets-V

Freestanding Centre Posts are stored vertically for flood heights $h \leq 1.800$ mm.
In case of truck shipments Centre Posts can be stored vertically for flood heights $h \leq 2.400$ mm.

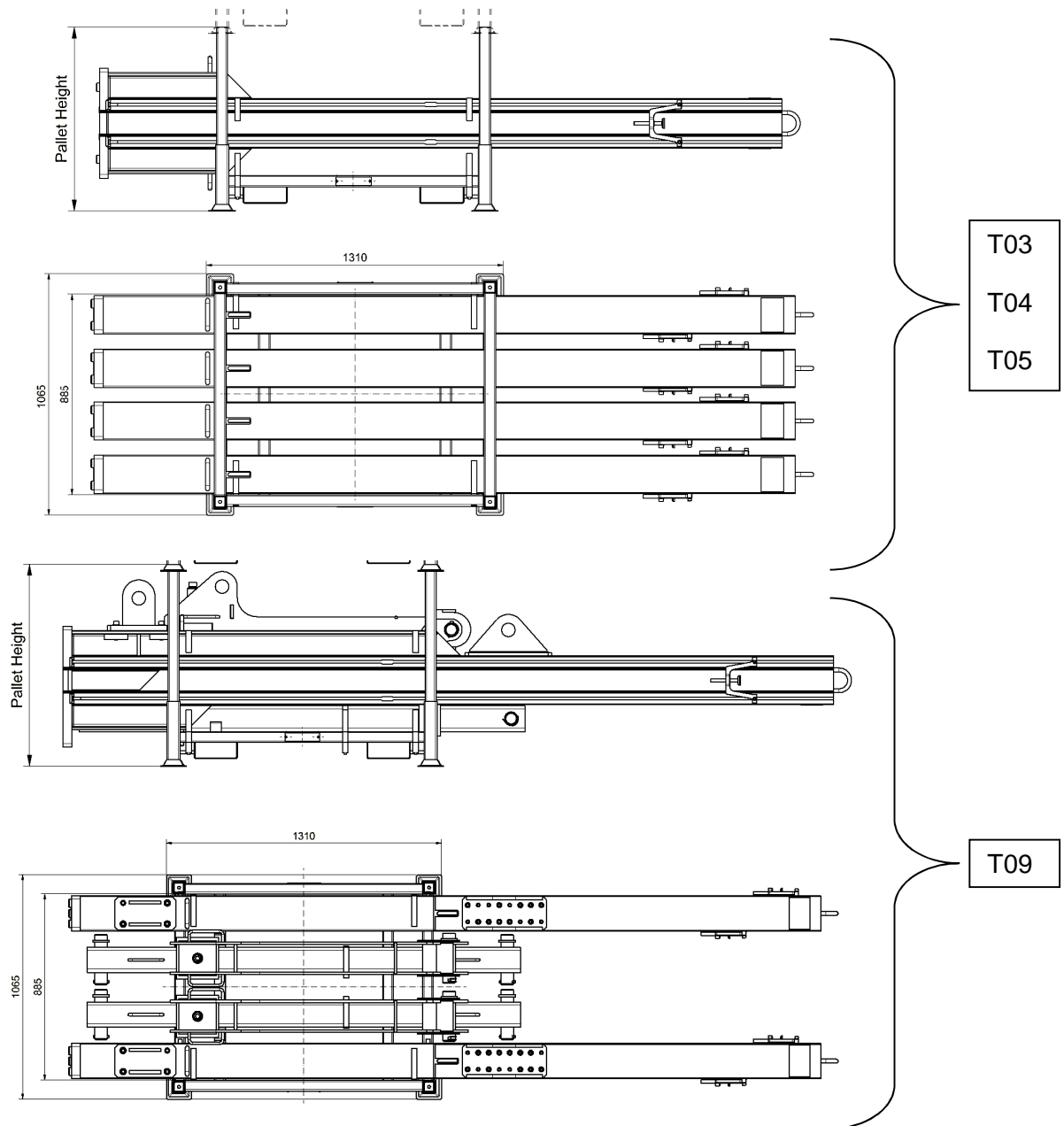


Description	Pallet Height [mm]	Center Post MS100K	Max. Number MS100K/Pallet [Piece]	Flood Height MS100K	
				from [mm]	till [mm]
LT-P02-MS100K-T03-V (800)	830	MS100K	8	150	750
LT-P02-MS100K-T03-V (1400)	1430	MS100K	8	800	1200
LT-P02-MS100K-T03-V (2100)	2130	MS100K	8	1350	1800
LT-P02-MS100K-T03-V (2600)	2630	MS100K	8	1950	2400
LT-P02-MS100K-T04-V (2100)	2130	MS100K	8	1350	1800
LT-P02-MS100K-T04-V (2600)	2630	MS100K	8	1950	2400

3.1.3 Center Post Pallets-H

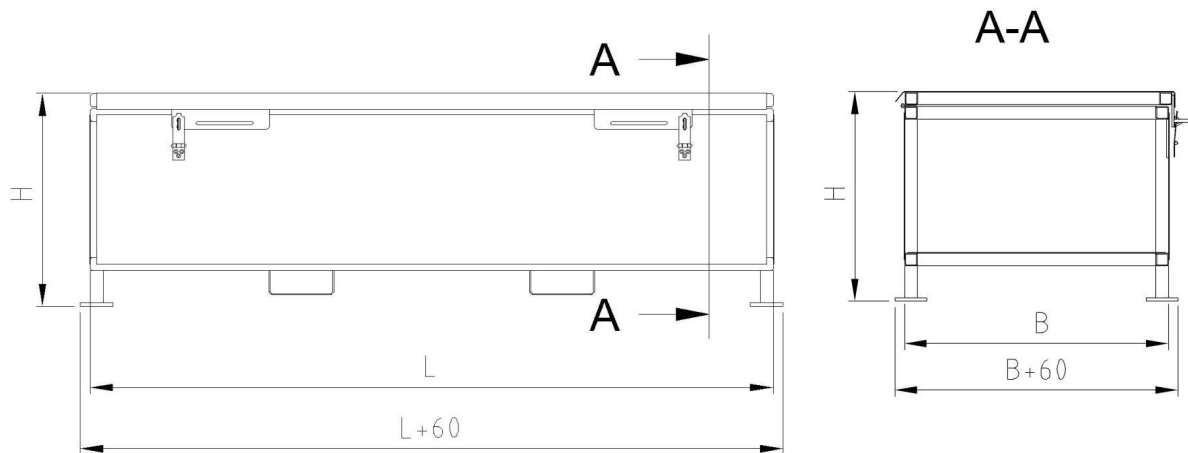
In case of container shipments Centre Posts are stored horizontally for flood heights $h \leq 1.950$ mm.

Back supported Centre Posts are always stored horizontally.



Description	Pallet Height [mm]	Center Post MS100K	Max. Number MS100K/Pallet [Piece]	Flood Height MS100K	
				from [mm]	till [mm]
LT-P02-MS100K-H	830	MS100K	4	1950	3250
LT-P02-RA120-MS100K-H	930	MS100K	2	2500	3600

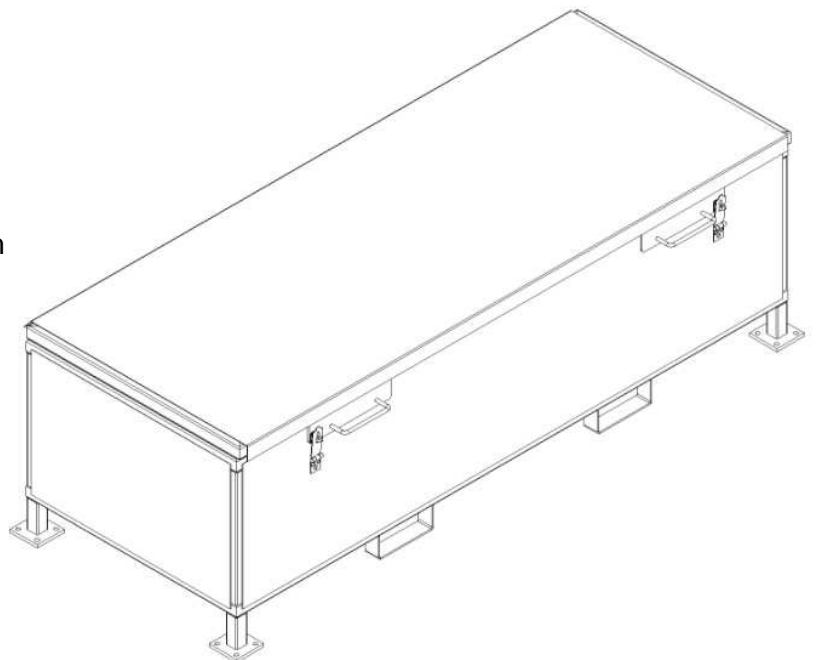
3.2 Storage Box-LK



Standard Dimensions
B x H: 930mm x 660mm

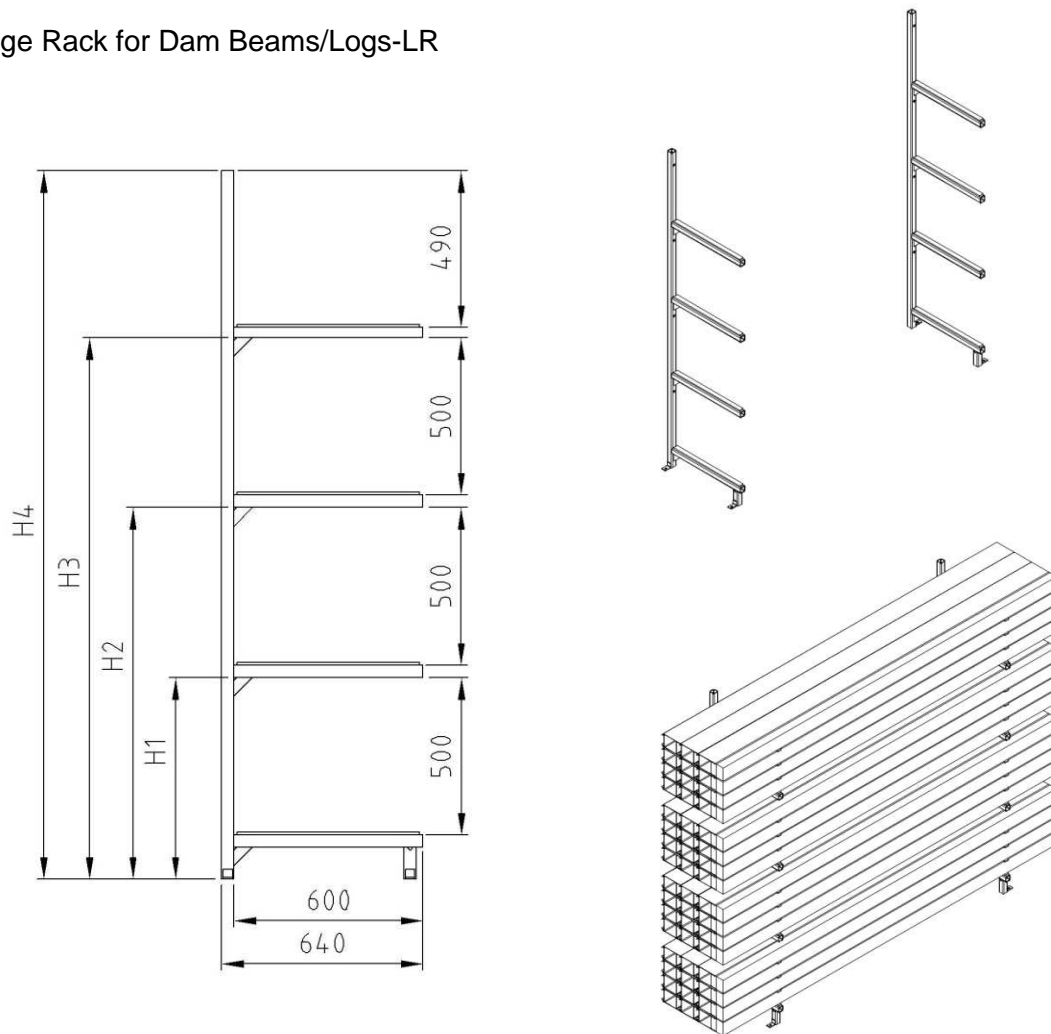
in three different lengths
L: 2.500mm / 3.000mm / 4.000mm

Material:
Subconstruction S235 fv
Planking aluminium sheet d=2mm



Dam Beam	Max. Number Layer	Number DB/Layer	
		Without BD 100L	With BD 100L
DBAL100x150-2.5	4	5	4
DBAL100x150-5.0	4	5	4
DBAL100x200-2.5	4	4	3
DBAL100x200-3.7	4	4	3

3.3 Storage Rack for Dam Beams/Logs-LR



Standard Dimensions: H1: 640mm; H2: 1180mm; H3: 1720mm; H4: 2250mm

Material: tubular construction S235 hot galvanized

Capacity per shelf (600mm x 500mm):

Dam Beam	Max. Number Layer	Number DB/Layer	
		Without BD 100L	With BD 100L
DBAL100x150-2,5	4	4	3
DBAL100x150-5,0	4	4	3
DBAL200x150-2,5	4	3	2
DBAL200x150-3,7	4	3	2

3.4 Storage Box

3.4.1 Alu-Box 47 Liters



Description:

- Material thickness 1,0 mm
- Reinforced edge profile.
- High stability
- Low dead weight.
- Safe and space-saving storage through four stacking edges possible.
- Revolving rubber seal protects against environmental influences like splashing water, dust and unpleasant smells.
- Synthetically covered self fold up safety handles.
- Integrated wrist strap.
- Stainless, weatherproof and temperature-resistant.

Dimensions	
Width outside	582 mm
Height outside	277 mm
Depth outside	385 mm
Width inside	550 mm
Height inside	245 mm
Depth inside	350 mm
Weight	4,5 kg
Volume	47 l

3.4.2 Alu-Box 76 Liter



Description:

- Material thickness 1,0 mm
- Reinforced edge profile.
- High stability
- Low dead weight.
- Safe and space-saving storage through four stacking edges possible.
- Revolving rubber seal protects against environmental influences like splashing water, dust and unpleasant smells.
- Synthetically covered self fold up safety handles.
- Integrated wrist strap.
- Stainless, weatherproof and temperature-resistant.

Dimensions	
Width outside	592 mm
Height outside	409 mm
Depth outside	388 mm
Width inside	560 mm
Height inside	380 mm
Depth inside	353 mm
Weight	5,3 kg
Volume	76 l

3.4.3 Alu-Box 91 Liter



Description:

- Material thickness 1,0 mm
- Reinforced edge profile.
- High stability
- Low dead weight.
- Safe and space-saving storage through four stacking edges possible.
- Revolving rubber seal protects against environmental influences like splashing water, dust and unpleasant smells.
- Synthetically covered self fold up safety handles.
- Integrated wrist strap.
- Stainless, weatherproof and temperature-resistant.

Dimensions	
Width outside	782 mm
Height outside	379 mm
Depth outside	385 mm
Width inside	750 mm
Height inside	350 mm
Depth inside	350 mm
Weight	6,1 kg
Volume	91 l

3.5 Equipment

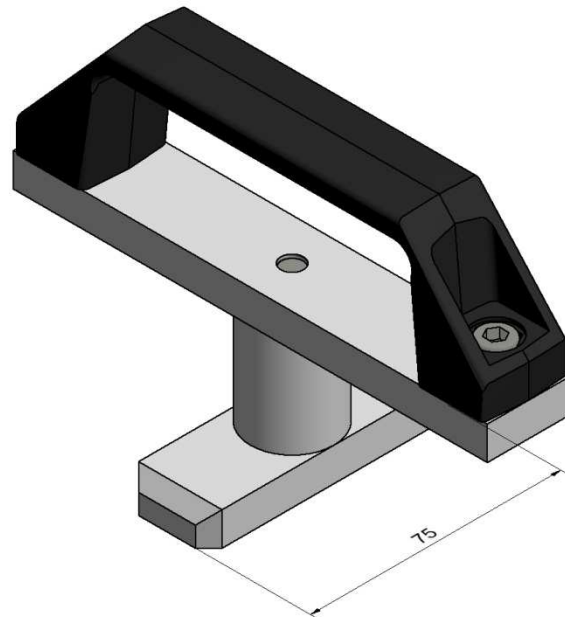
3.5.1 Tools



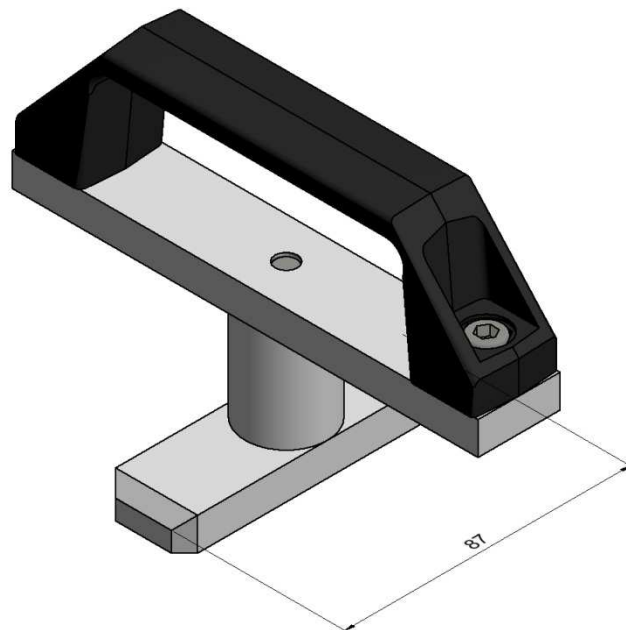
System	Usage	Tool	
HW-W100K	Pressing Tool	Ratchet ½"	Hexagon Secket SW 8mm
HW-W100K	Cover	Ratchet ½"	Hexagon Secket SW 8mm
HW-W100K	Anchor Plate Dummy Bolt	Ratchet ½"	Hexagon Secket SW 19mm
HW-W100K	Cylinder Head Center Post Bolt	Ratchet ½"	Hexagon Secket SW 19mm

3.5.2 Extracting Tool

AW100-75



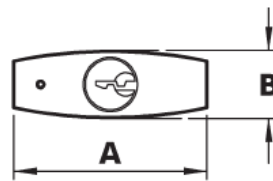
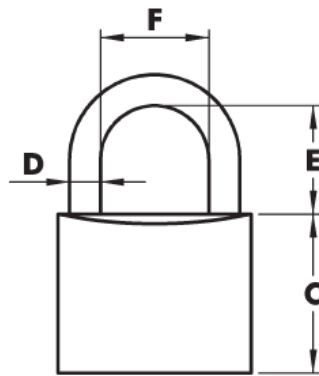
AW100-87



Tool	Usage/Log
AW100-75	Dam Beam DBAL 100x150-2.5
AW100-75	Dam Beam DBAL 100x200-2.5
AW100-75	Dam Beam DBAL 100x200-3.7
AW100-87	Dam Beam DBAL 100x150-5.0

3.5.3 Padlock

Mango 30GS W1-30, corresponding with IBS Pressing Tool lockable, Alu-Box, Storage Box



Dimensions:

A	30	mm
B	12,8	mm
C	28,5	mm
D	5	mm
E	17,0	mm
F	16,0	mm



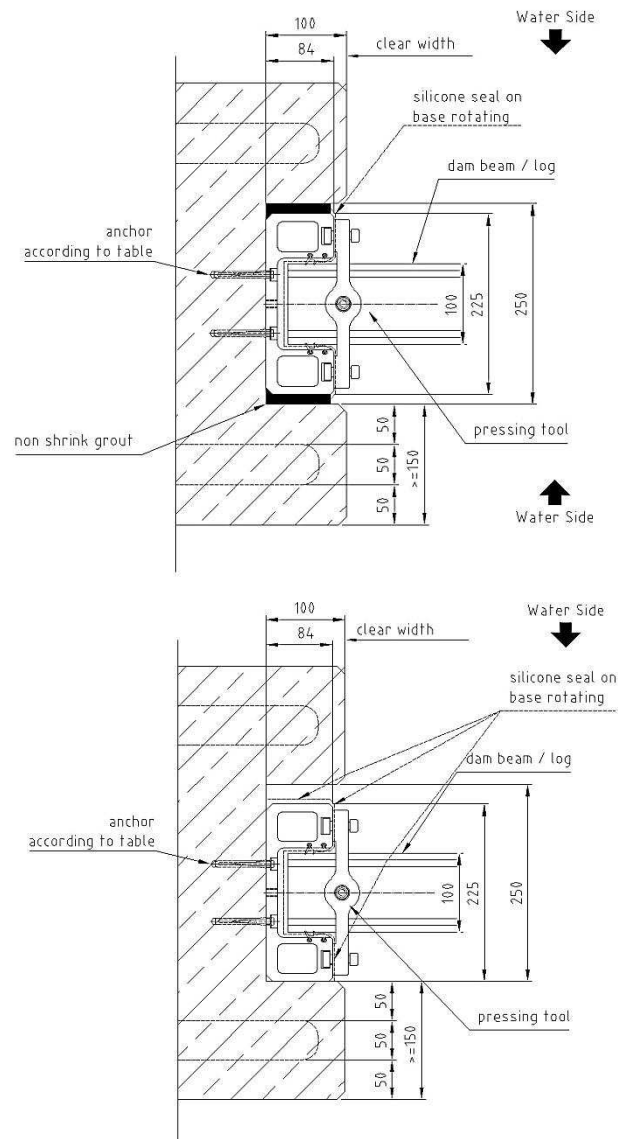
Description:

- Keyed alike
- Material: Casing: brass massive, Inside stainless
Bail: steel hardened, chromed
Key: brass nickel plated
- Scope of Supply: 2 keys per lock

4 End Post – Mounting Types

4.1 Mounting Types in Recess and First Concrete

4.1.1 Type 1 in Rebate – E100K T01-Post Height



Mounting Tolerance:

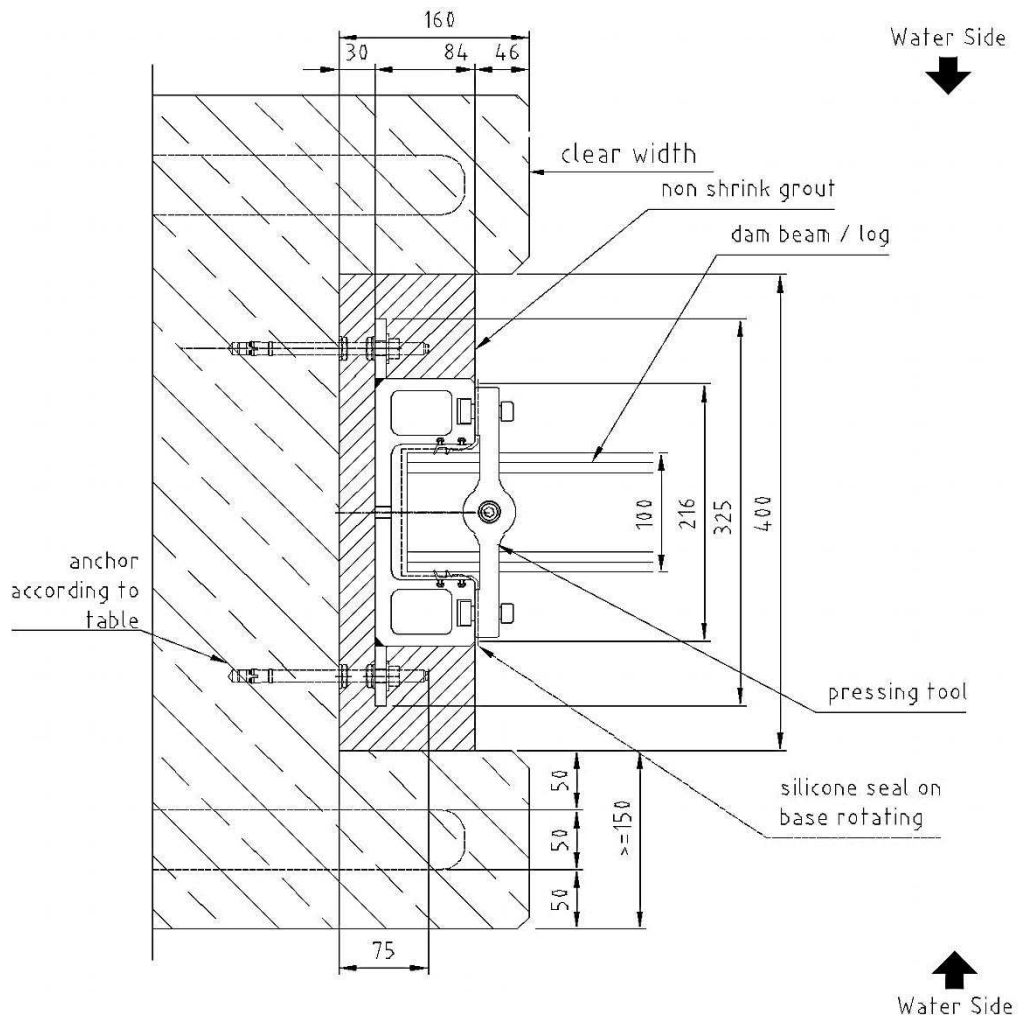
Frame Assembly

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

Dimensioning

Wall	Area	Height	Width	Anchorage
Concrete	As per Dam Beam/Log Deflection Graph			Fischer SX 8 x65, Screw DIN 571 M5 x 60 SS 304, washer DIN 9021 5.3 SS304

4.1.2 Type 4 in Rebate (End Post > 2,5m) – E100K T04-Post Height



Mounting Tolerance:

Frame Assembly

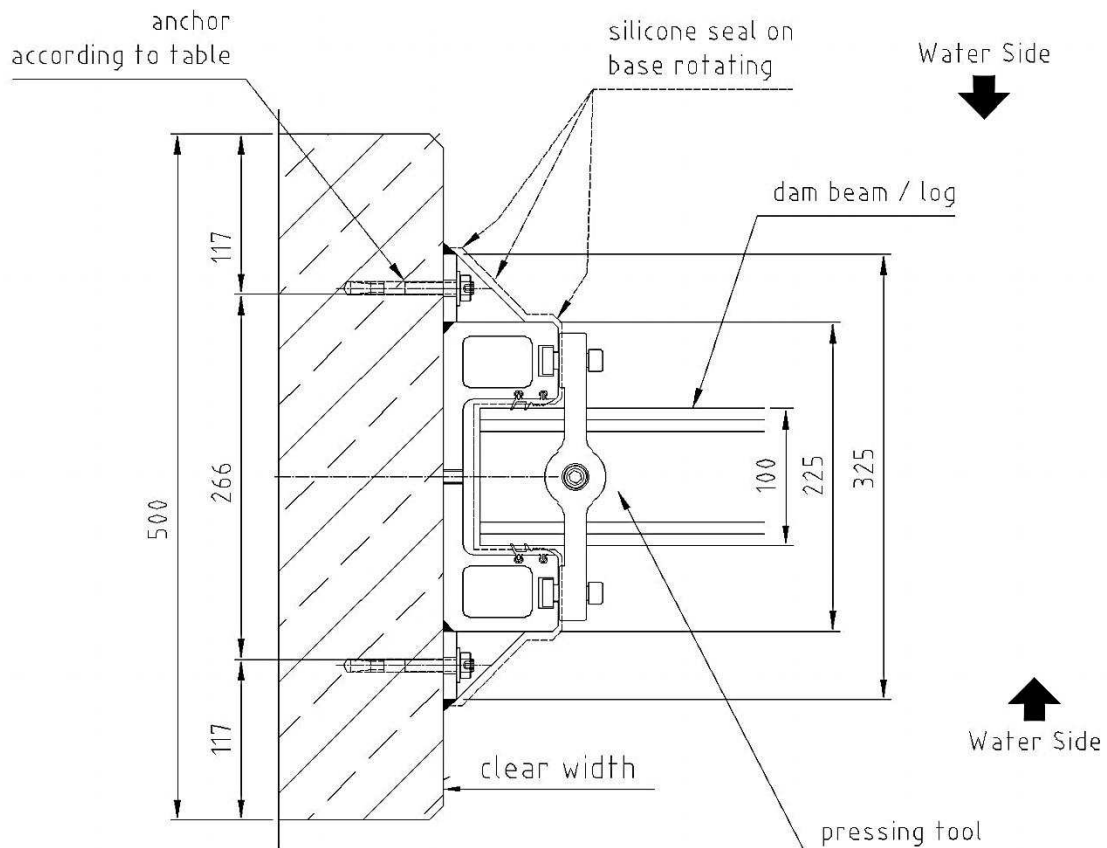
- In Axis + / - 3mm
- Vertically + / - 3mm
- Total max. 6mm

Dimensioning

Wall	Area	Height	Width	Anchorage
Concrete	As per Dam Beam/Log Deflection Graph			HST M10x160/80
Full Brick				HIT-V M10x190, fast curing mortar HFX, nut DIN 439 M10 8.8 g.v., washer DIN 125 A10.5 g.v.
Perforated Brick				HIT-V M10x190, fast curing mortar HFX, nut DIN 439 M10 8.8 g.v., 16x85, washer DIN 125 A10.5 g.v.

4.2 Mounting Types - Side Wall Mounted

4.2.1 Type 3 side wall mounted – E100K T03-Post Height



Mounting Tolerance:

Frame Assembly

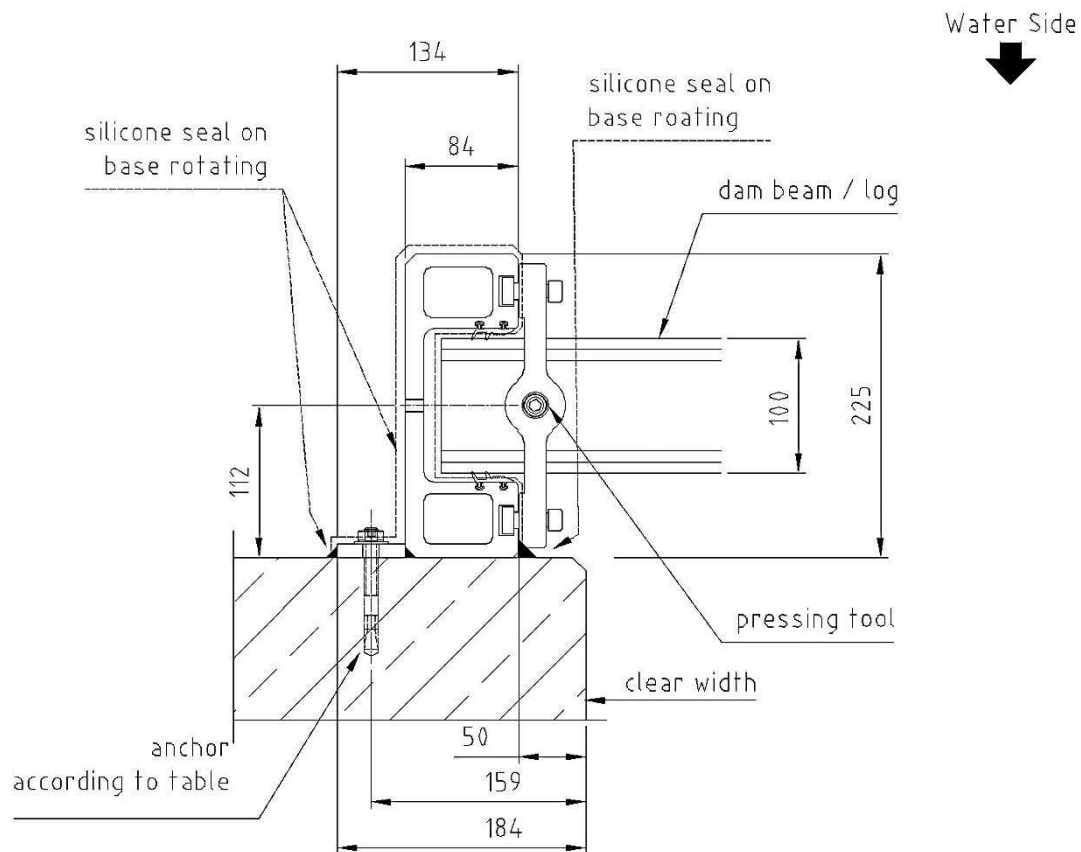
- In Axis + / - 3mm
- Vertically + / - 3mm
- Total max. 6mm

Dimensioning

Wall	Area	Height	Width	Anchorage
Concrete	5-7 m ²	Max 2m	Max 4m	HILTI HST-R M10x90/10
Full Brick	4-5 m ²			Anchor HIT-VR M10x95, Fast curing mortar HFX
Perforated Brick	3-4 m ²			Anchor HIT-VR M10x95, Fast curing mortar HFX, Screen tube HIT-SC 16x85

4.3 Mounting Types Wall mounted on-seating

4.3.1 Type 02 wall mounted on-seating – E100K T02-R / L – Post Height



Mounting Tolerance:

Frame Assembly

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

Dimensioning

Wall	Area	Height	Width	Anchorage
Concrete	As per Dam Beam/Log Deflection Graph			Hilti HST-R M10x90/10
Full Brick				Anchor HIT-VR M10x95, fast curing mortar HFX
Perforated Brick				Anchor HIT-VR M10x95, fast curing mortar HFX, screen tube HIT-SC 16x85

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