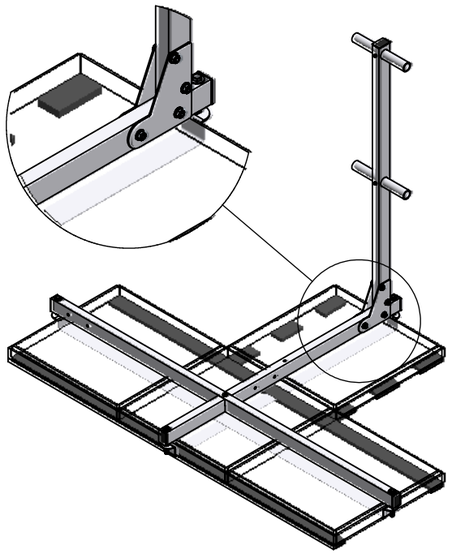
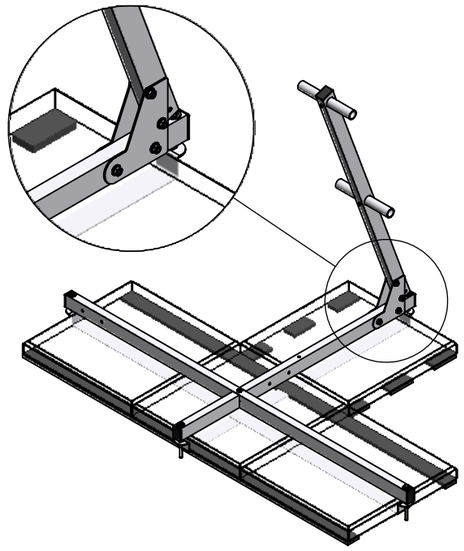
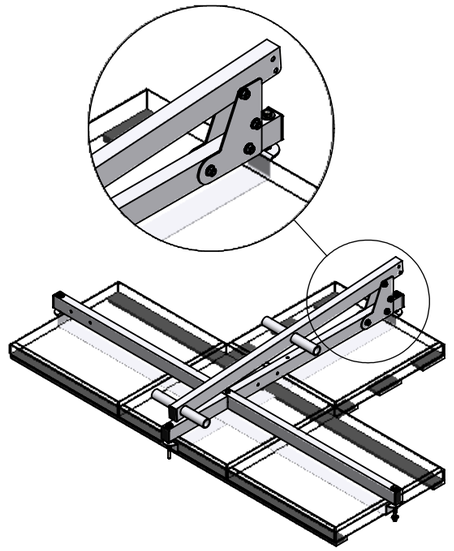
90 Degree Configuration



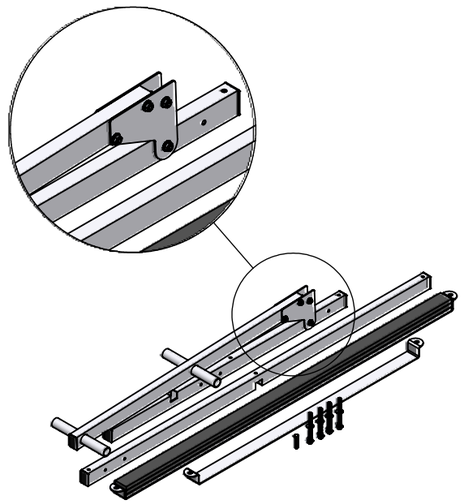
70 Degree Configuration

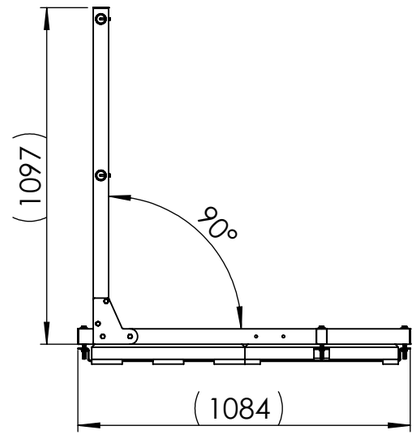


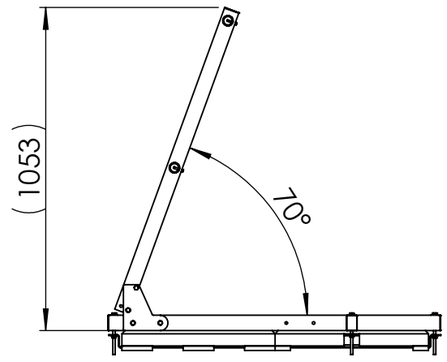
Flat with 70 Degree Config

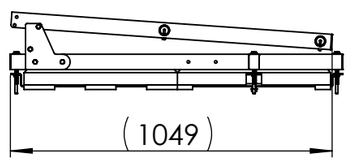


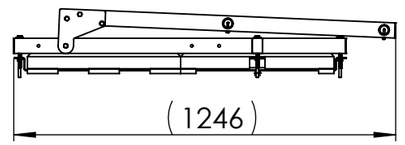
Transport

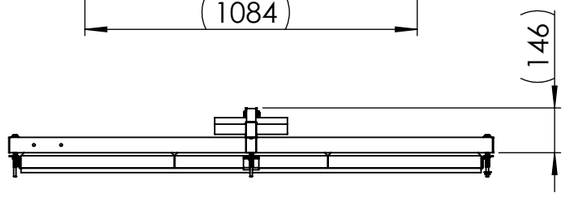


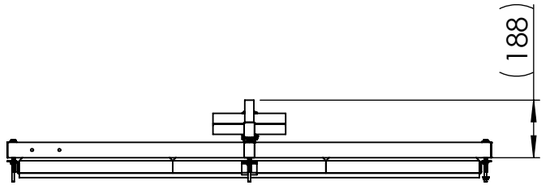


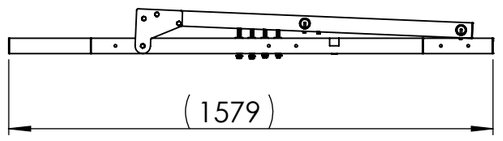


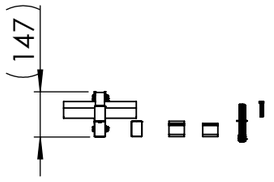


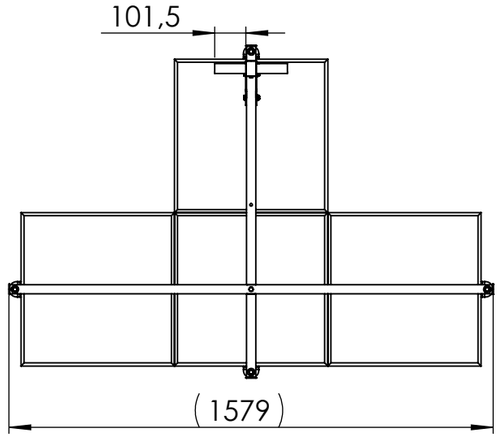








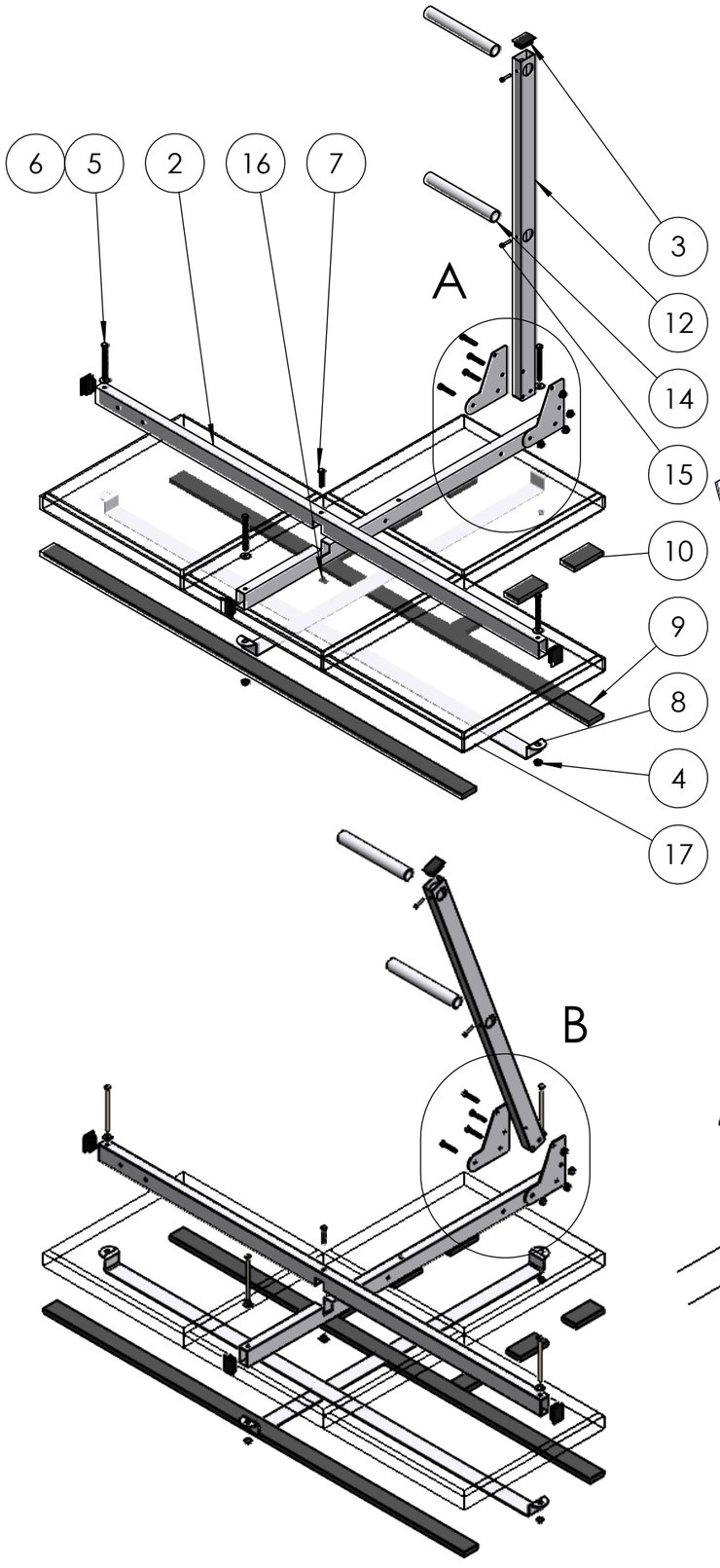


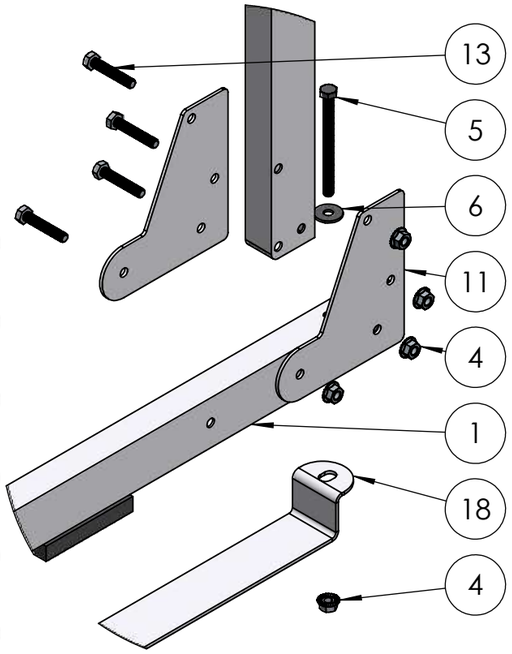


Ballast is configurable and conform Eurocode 1991-1-4
***N.B. Some countries have extended regulations in regard to compliance**

	Date	Name	Amount	1
Drawn	28-4-2026	O.Toor	Mass [g]	122298.33
Checked	28-4-2026	B.Cool	General tolerance	DIN ISO 2768-c
Configuration name: Transverse stanchion			Shape / Pos. tol.	NEN ISO 1101
			Roughness	NEN ISO 1302

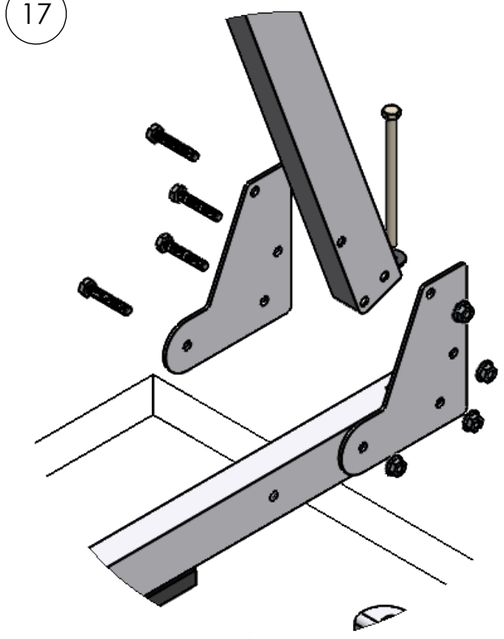
Scale: 1:20	Projection	Description:	Drawing number:	Rev: 0
Units: mm		PG-T1500-1000	25.218-002-900_05	Sheet 1 of 4
				Format: A3





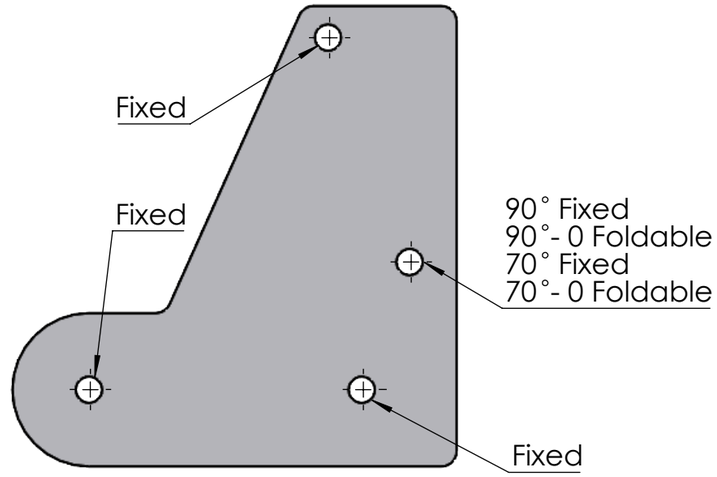
DETAIL A
SCALE 1 : 5

DETAIL A SHOWS BOLT POSITIONS FOR 90° CONFIGURATION



DETAIL B
SCALE 1 : 5

DETAIL B SHOWS BOLT POSITIONS FOR 70° CONFIGURATION



Ballast is configurable and conform Eurocode 1991-1-4
***N.B. Some countries have extended regulations in regard to compliance**

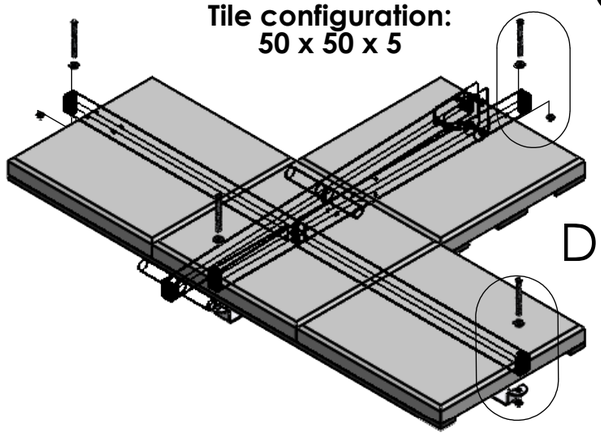
ITEM	PART DESCRIPTION	DESCRIPTION	MATERIAL	QTY.
1	D228.HBB.TB.1082	Box flat T2 1082	6060-T6	1
2	D228.HBB.XB.1579(1575)	Box flat T2 1575	6060-T6	1
3	D228.C50.30	Insertion cap 50×30	ABS	5
4	DIN 6923.M8	Flanged Hex Nut M8	Stainless Steel, 304	8
5	DIN 933.M8x100	Hex Bolt M8x100	Stainless steel, 316	4
6	D228.WASH.M8.30.1.5	Large washer 3xD M8	Stainless steel, 304	4
7	DIN 933.M8x45	Hex Bolt M8x45	Stainless Steel, 304	1
8	D228.BRS.1645 (1578)	Tile-retaining strip T2 1500-narrow	6060-T6	1
9	D228.BS.1500.50.15	Tile Support Pad 1500x50x15	POLYURETHANE (11671)	2
10	D228.BS.100.50.15	Tile support pad 100x50x15	POLYURETHANE (11671)	6
11	D228.SCP.150.150.25	Corner Connector	6060-T6	2
12	D228.VBB.1045	Opright box section T2	6060-T6	1
13	DIN 933.M8x45	Hex bolt M8x45	Stainless Steel, 304	4
14	D228.CT.33x3x190(237)	Coupling Sleeve	6060-T6	2
15	D228.SDS.5.5x31	Long self-drilling screw - SX 5.5x31	Stainless Steel, 304	2
16	Art. 9060-WS 9060	Weld nut M8 d26-h11	Stainless steel, 304	1
17	D228.BT.50.50.05	50x50x5	C30/37 Concrete, 2300 kg/m3	4
18	D228.BRS.1082	Tile-retaining strip T2 1082-narrow	6060-T6	1

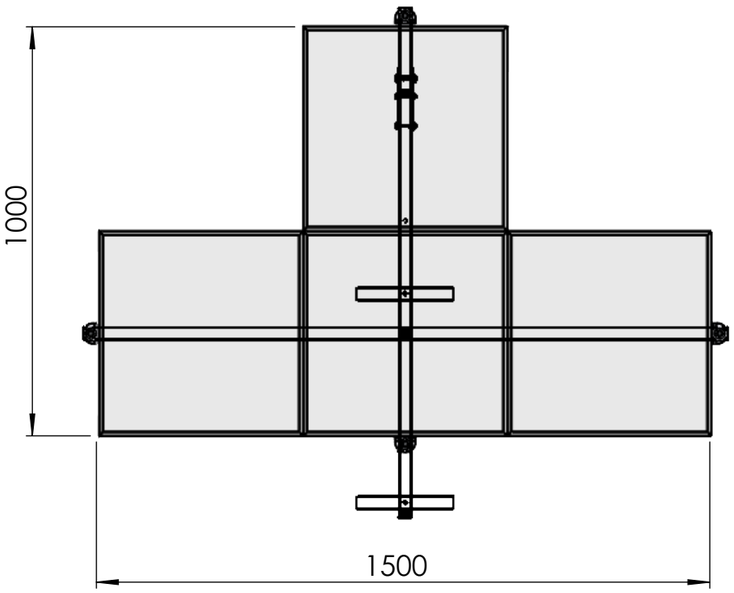
PROTECTOR GUARDRAIL
Designed to protect, built to last

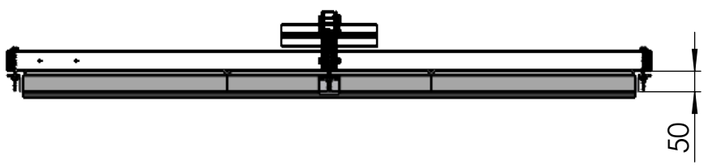
	Date	Name		
Drawn	28-4-2026	O.Toor	Amount	1
Checked	28-4-2026	B.Cool	Mass [g]	122298.33
Configuration name: Transverse Stanchion			General tolerance	DIN ISO 2768-c
			Shape / Pos. tol.	NEN ISO 1101
			Roughness	NEN ISO 1302

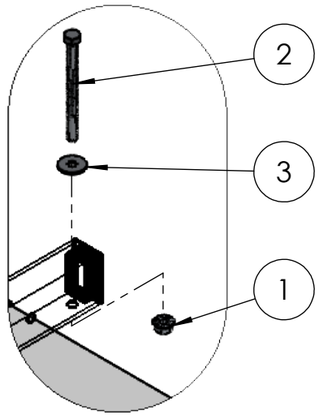
Scale: 1:15	Projection	Description:	Drawing number:	Rev: 0	Format:
Units: mm		PG-T1500-1000	25.218-002-900_05	Sheet 2 of 4	A3

Tile configuration:
50 x 50 x 5

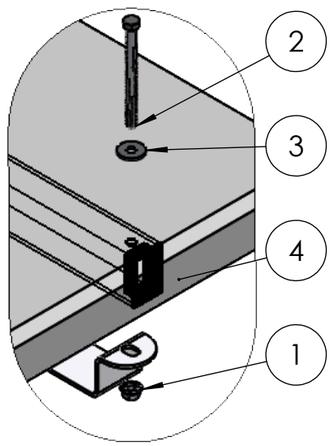








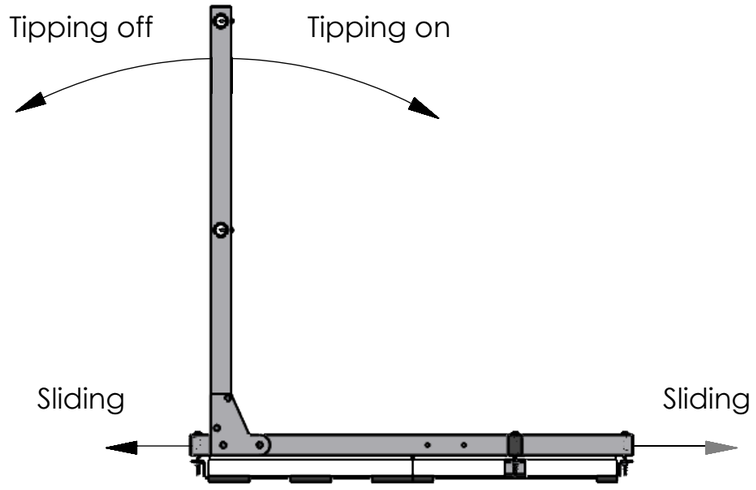
DETAIL C
SCALE 1 : 5



DETAIL D
SCALE 1 : 5

Declaration of Performance - on/off - sliding					
Stanchion type	Counterweight system	Stanchion distance	Max q_onroof_safe (N/m2)	Max q_offroof_safe (N/m2)	Max q_sliding_safe (N/m2)
1500T-1000	50x50x5	3m	932	1365	1567
1500T-1000	50x50x5	4m	752	1076	1261

Declaration of Performance - Applied local load					
Stanchion type	Counterweight system	Stanchion distance	Applied local load per stanchion (kN)	Applied average distributed load (kN/m)	Applied Pressure on surface (N/cm2)
1500T-1000	50x50x5	3m	1,21	0,3	0,3
1500T-1000	50x50x5	4m	1,21	0,3	0,3



Declaration of Performance (tipping on/off roof & sliding)
The DOP calculation demonstrates that the stanchion provides safe resistance against tipping on the roof and off the roof, with a maximum allowable on-roof load of q_onroof_safe = X N/m2, an off-roof load of q_offroof_safe = Y N/m2, and a maximum sliding resistance of q_sliding_safe = Z N/m2 for the selected configuration.
Minor variations occur between the 90°, 70° and 0° stanchion orientations; however, the lowest (most limiting) performance values have been used to ensure a robust safety margin.
Loads specified are desing values of the loads. A safety factor γM= 1,5 is included in absence of national regulations.

Declaration of Performance (local load)
The DOP local load assessment confirms that the stanchion applies the following loads onto the roof: applied point load of A kN, an average distributed load of B kN/m and a surface pressure of C N/cm².
Differences between the 90°, 70° and 0° stanchion positions are negligible, and the lowest (most limiting) performance value has been selected to guarantee a robust safety margin.
Loads specified are characteristic loads. γM= 1,3 applies in absence of national regulations.

ITEM	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	DIN 6923.M8	Flanged Hex Nut M8	Stainless Steel, 304	8
2	DIN 933.M8x100	Hexagon Bolt M8x100	Stainless steel, 316	4
3	D228.WASH.M8.30.1.5	Flat washer 3xD M8	Stainless steel, 304	4
4	D228.BT.50.50.05	50x50x5	C30/37 Concrete, 2300 kg/m3	4

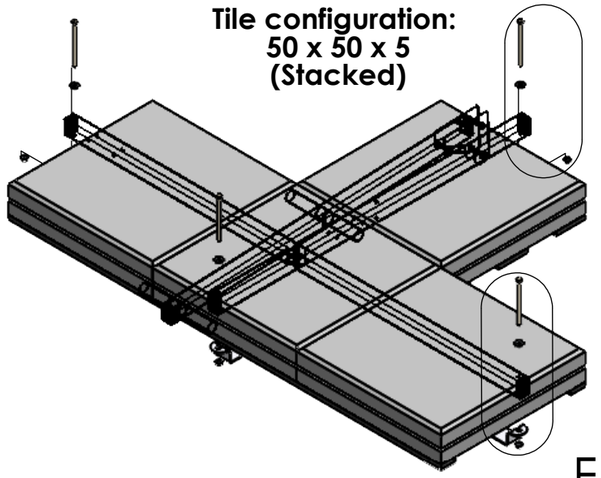
PROTECTOR GUARDRAIL
Designed to protect, built to last

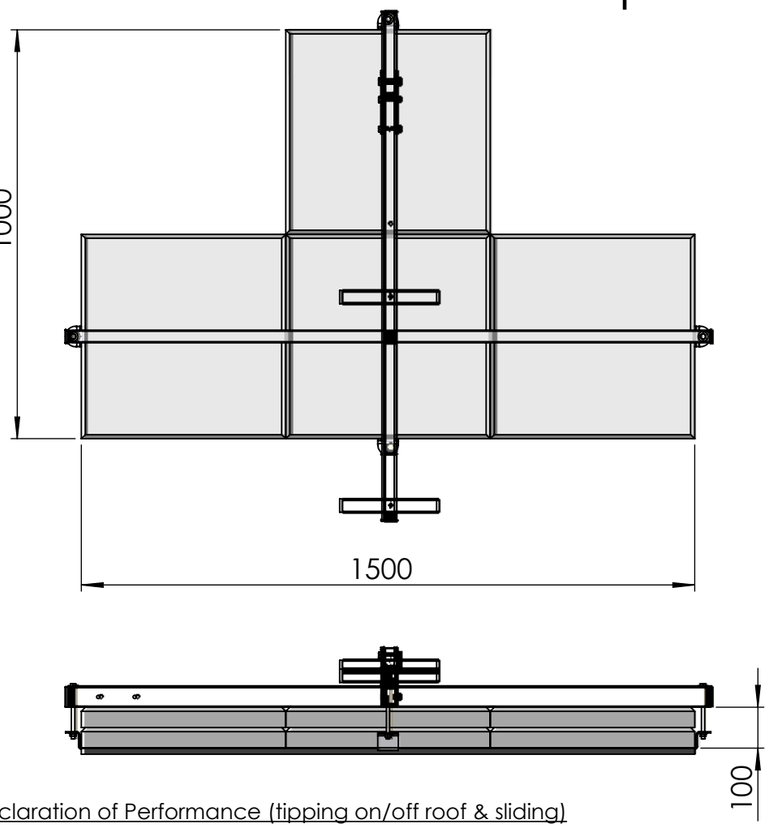
	Date	Name		
Drawn	28-4-2026	O.Toor	Amount	1
Checked	28-4-2026	B.Cool	Mass [g]	122298.33
			General tolerance	DIN ISO 2768-c
Configuration name: Transverse Stanchion			Shape / Pos. tol.	NEN ISO 1101
			Roughness	NEN ISO 1302

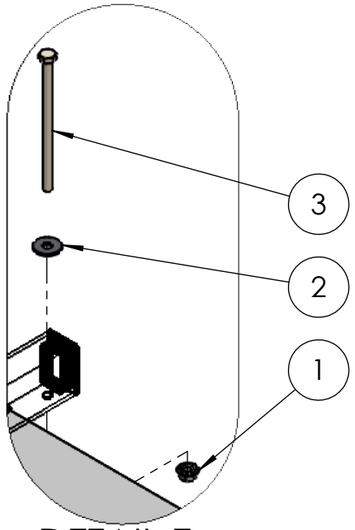
Scale: 1:15	Projection	Description: PG-T1500-1000	Drawing number: 25.218-002-900_05	Rev: 0
Units: mm				Sheet 3 of 4

Format: A3

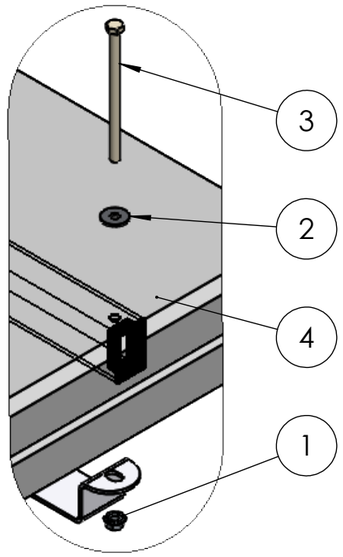
Tile configuration:
50 x 50 x 5
(Stacked)







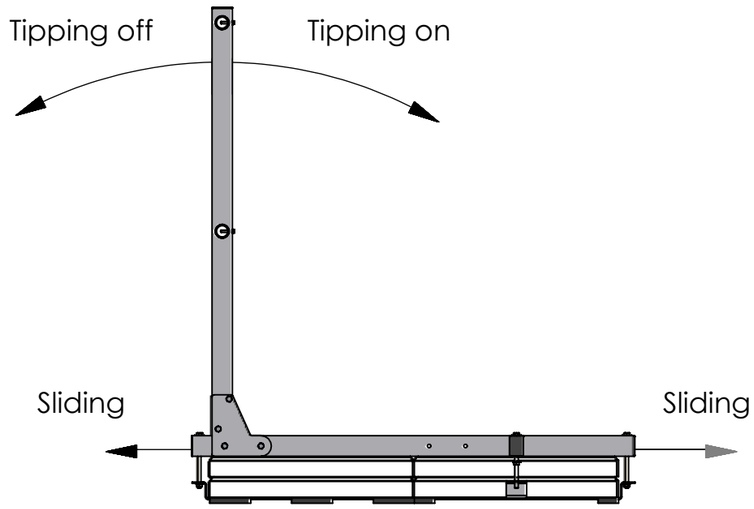
DETAIL E
SCALE 1 : 5



DETAIL F
SCALE 1 : 5

Declaration of Performance - on/off - sliding					
Stanchion type	Counterweight system	Stanchion distance	Max q_onroof_safe (N/m2)	Max q_offroof_safe (N/m2)	Max q_sliding_safe (N/m2)
1500T-1000	50x50x5 (stacked)	3m	1725	2688	3011
1500T-1000	50x50x5 (stacked)	4m	1377	2118	2411

Declaration of Performance - Applied local load					
Stanchion type	Counterweight system	Stanchion distance	Applied local load per stanchion (kN)	Applied average distributed load (kN/m)	Applied Pressure on surface (N/cm2)
1500T-1000	50x50x5 (stacked)	3m	2,31	0,58	0,58
1500T-1000	50x50x5 (stacked)	4m	2,31	0,58	0,58



ITEM	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	DIN 6923.M8	Flanged Hex Nut M8	Stainless Steel, 304	8
2	D228.WASH.M8.30.1.5	Large washer 3xD M8	Stainless steel, 304	4
3	DIN 933.M8x130	Hexagon Bolt M8x130	Stainless steel, 304	4
4	D228.BT.50.50.05	50x50x5	C30/37 Concrete, 2300 kg/m3	8

Declaration of Performance (tipping on/off roof & sliding)
The DOP calculation demonstrates that the stanchion provides safe resistance against tipping on the roof and off the roof,
with a maximum allowable on-roof load of q_onroof_safe = X N/m2, an off-roof load of q_offroof_safe = Y N/m2,
and a maximum sliding resistance of q_sliding_safe = Z N/m2 for the selected configuration.
Minor variations occur between the 90°, 70° and 0° stanchion orientations; however,
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Loads specified are desing values of the loads. A safety factor γM= 1,5 is included in absence of national regulations.

Declaration of Performance (local load)
The DOP local load assessment confirms that the stanchion applies the following loads onto the roof:
applied point load of A kN, an average distributed load of B kN/m and a surface pressure of C N/cm².
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and the lowest (most limiting) performance value has been selected to guarantee a robust safety margin.
Loads specified are characteristic loads. γM= 1,3 applies in absence of national regulations.

PROTECTOR GUARDRAIL
Designed to protect, built to last

	Date	Name		
Drawn	28-4-2026	O.Toor	Amount	1
Checked	28-4-2026	B.Cool	Mass [g]	122298.33
Configuration name: Transverse Stanchion			General tolerance	DIN ISO 2768-c
			Shape / Pos. tol.	NEN ISO 1101
			Roughness	NEN ISO 1302

Scale: 1:15	Projection	Description:	Drawing number:	Rev: 0	Format:
Units: mm		PG-T1500-1000	25.218-002-900_05	Sheet 4 of 4	A3