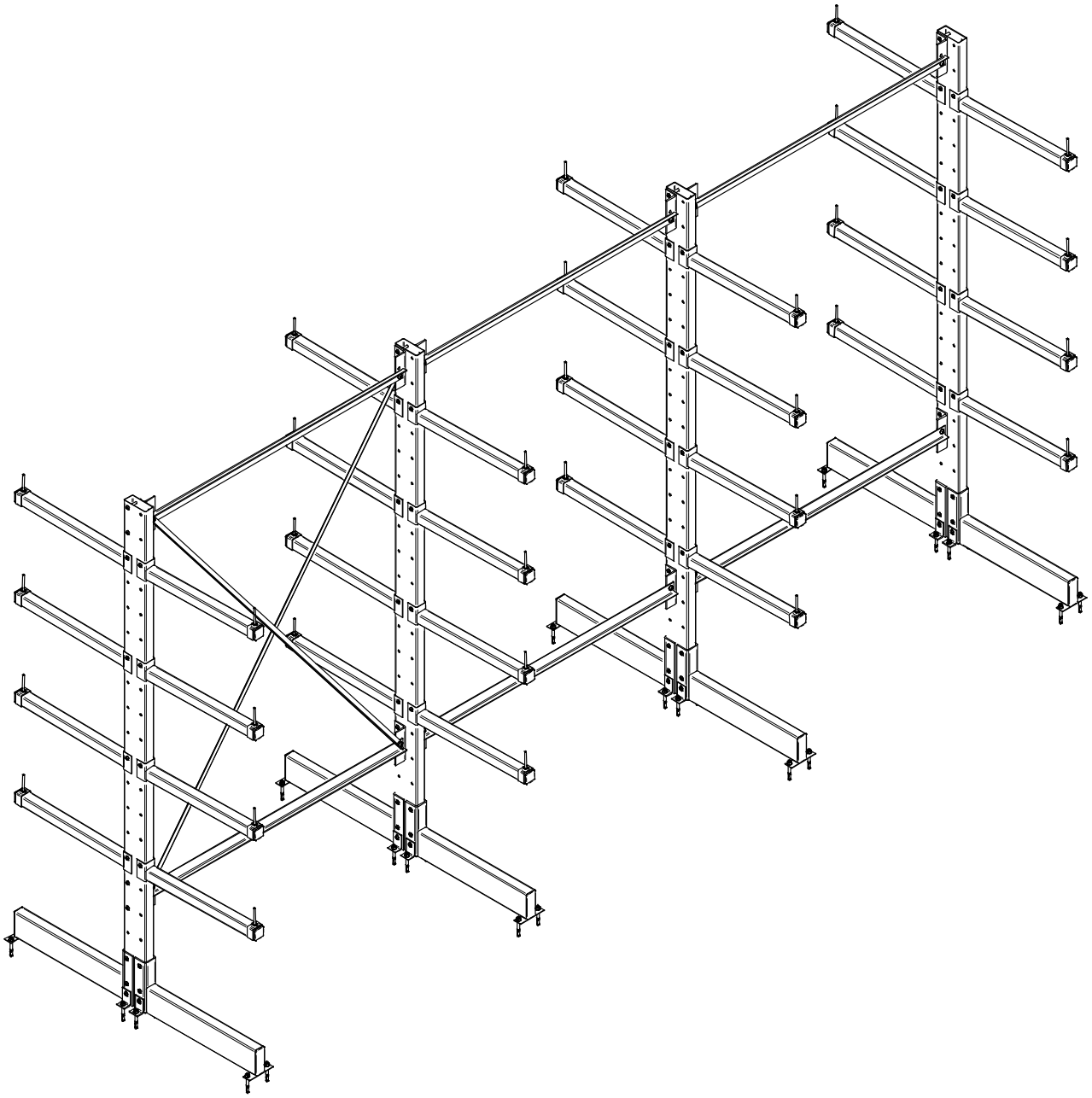
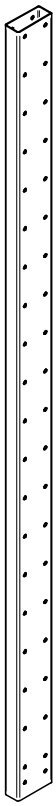
ASSEMLBY INSTRUCTION

LIGHT CANTILEVER RACKING



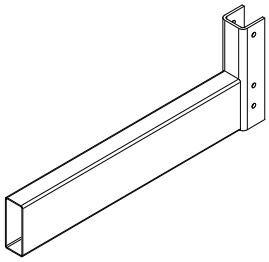
BR PRODUCTS

Pillar



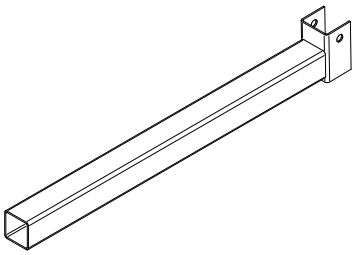
Length
2000 mm
2500 mm
3000 mm
3500 mm

Foot



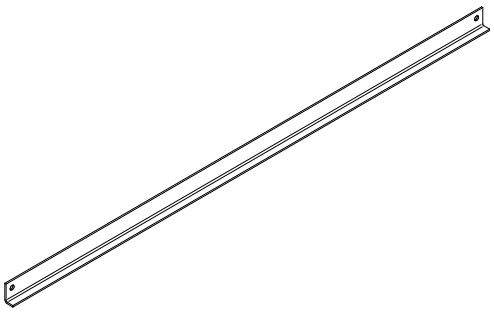
Length
500 mm
600 mm
700 mm

Arm



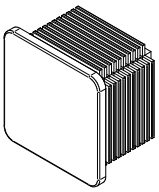
Length
500 mm
600 mm
700 mm

Horizontal brace

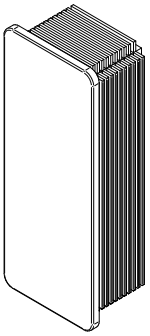


Length
720 mm
920 mm
1170 mm
1420 mm

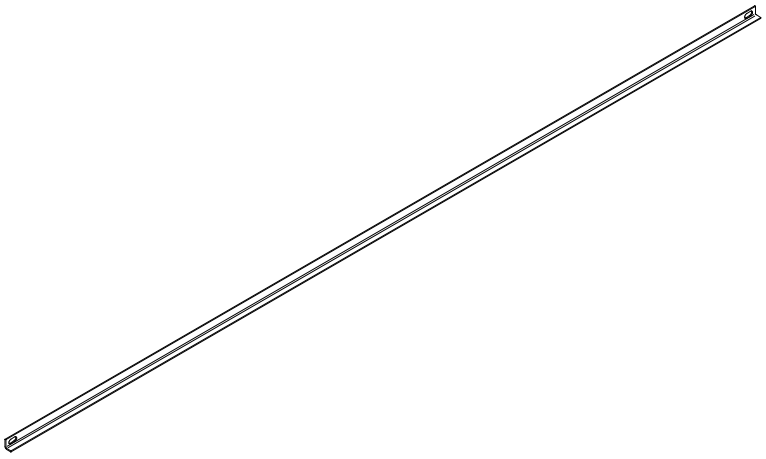
Small Cap



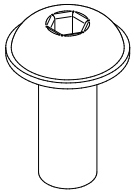
Large Cap



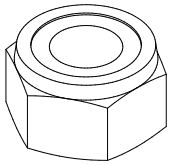
Back brace



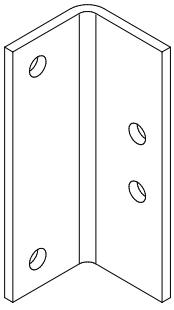
M8x20



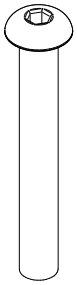
M8 Lock nut



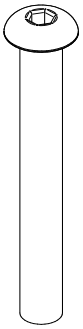
Joint plate



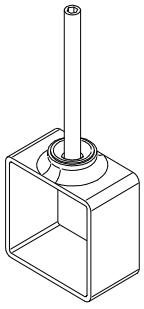
M8x60



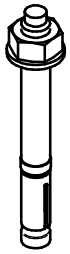
M8x70



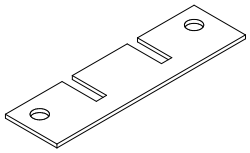
End stop (optional)



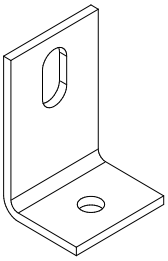
Expansion-shell bolt (optional)



Lock Plate foot (optional)



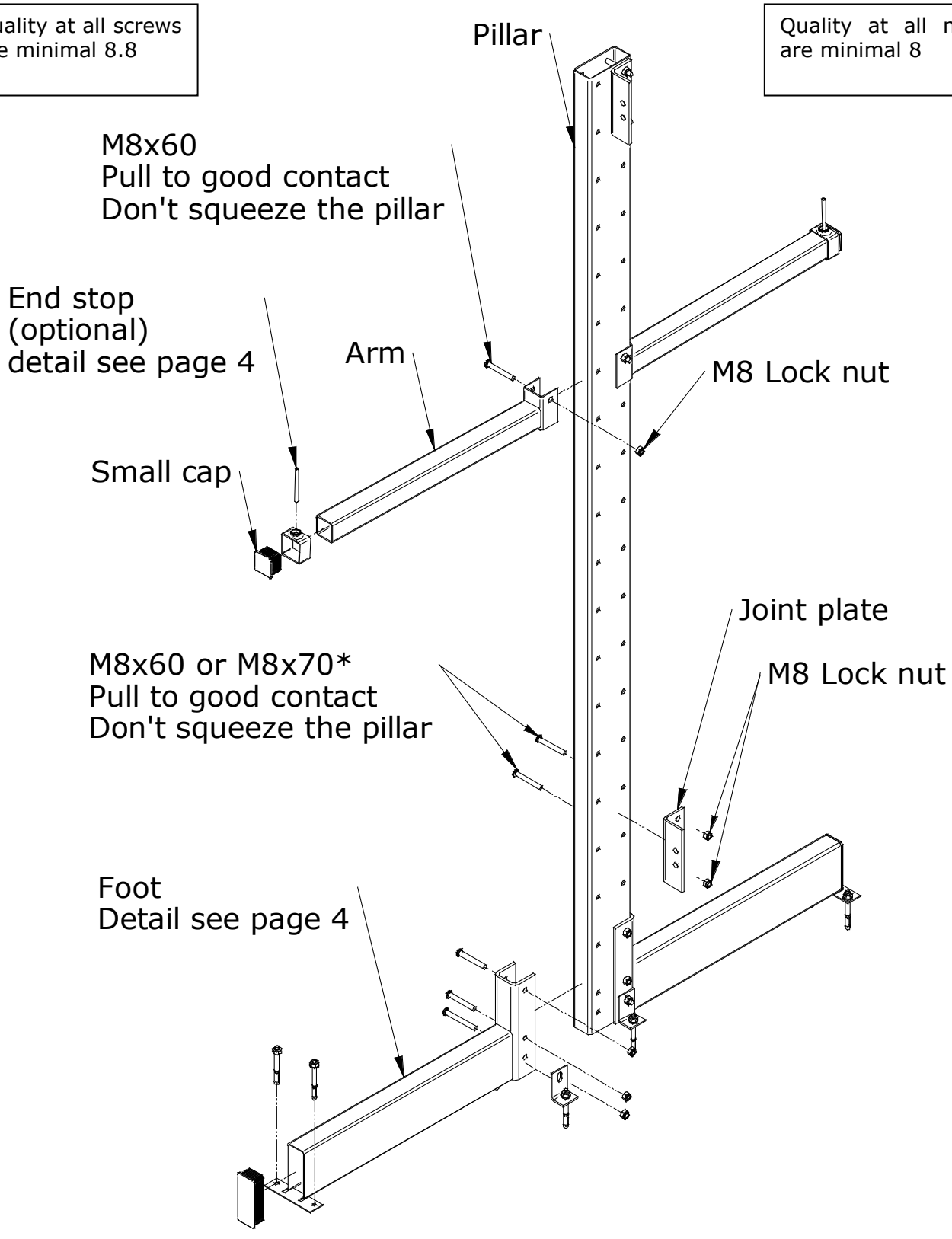
Lock plate pillar (optional)



Build and use the heavy cantilever racking according to NEN 5051 and 5052

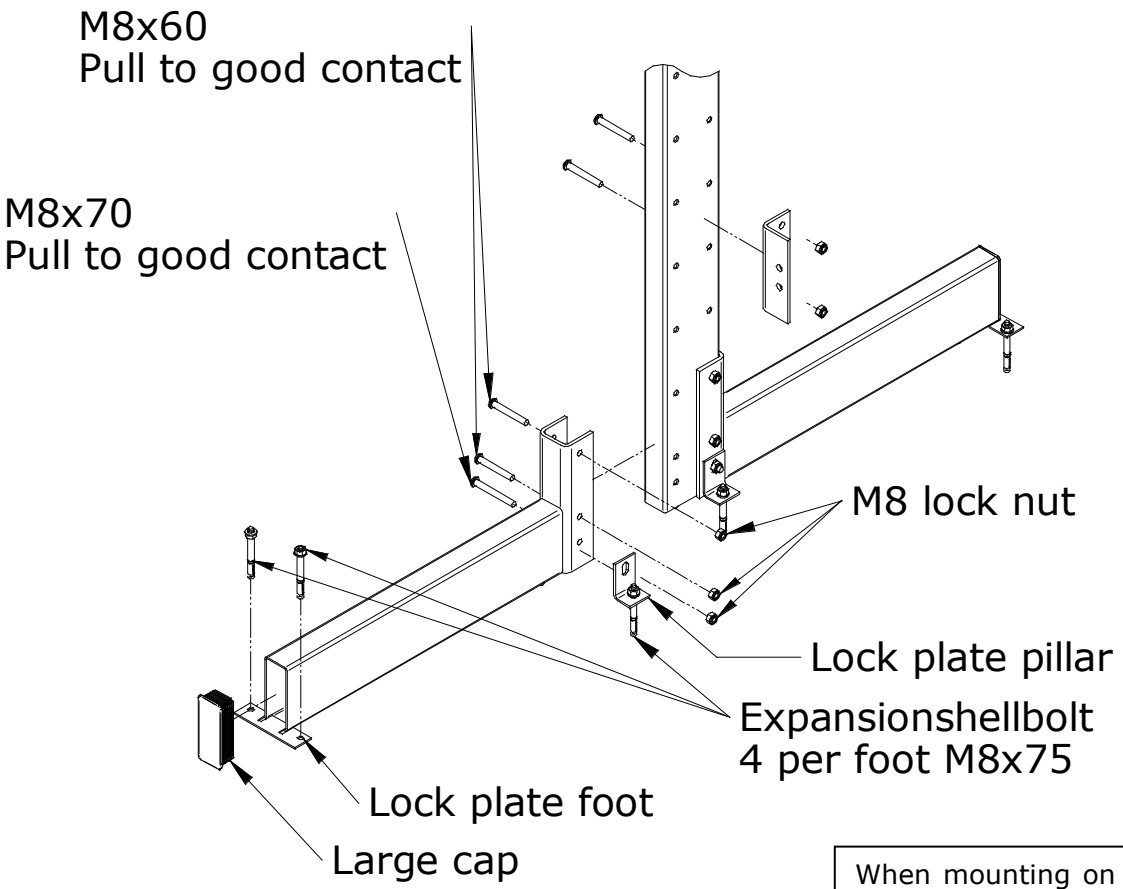
Quality at all screws are minimal 8.8

Quality at all nuts are minimal 8



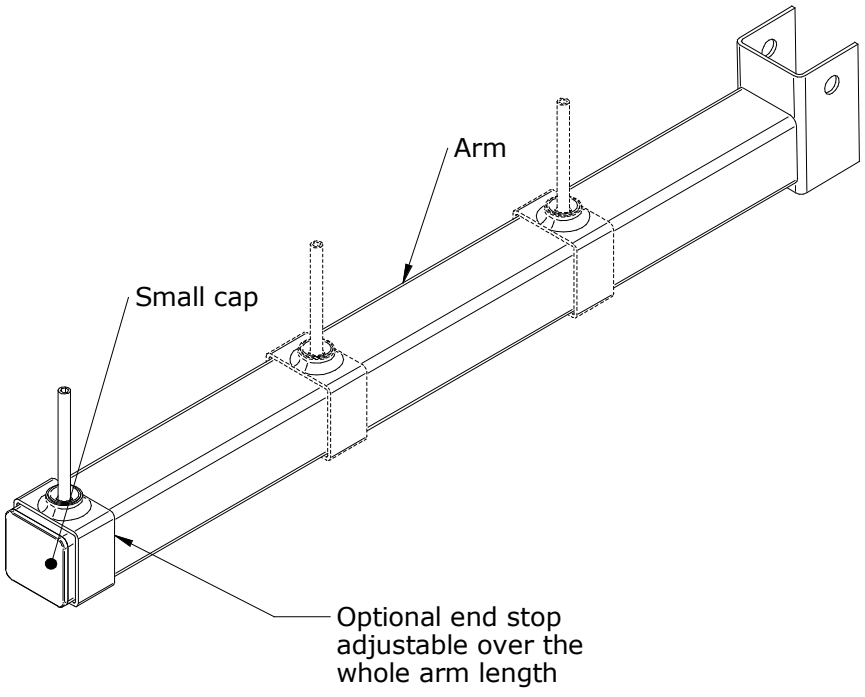
* If the joint plate and the arm are on the same height use M8x70

DETAIL FOOT



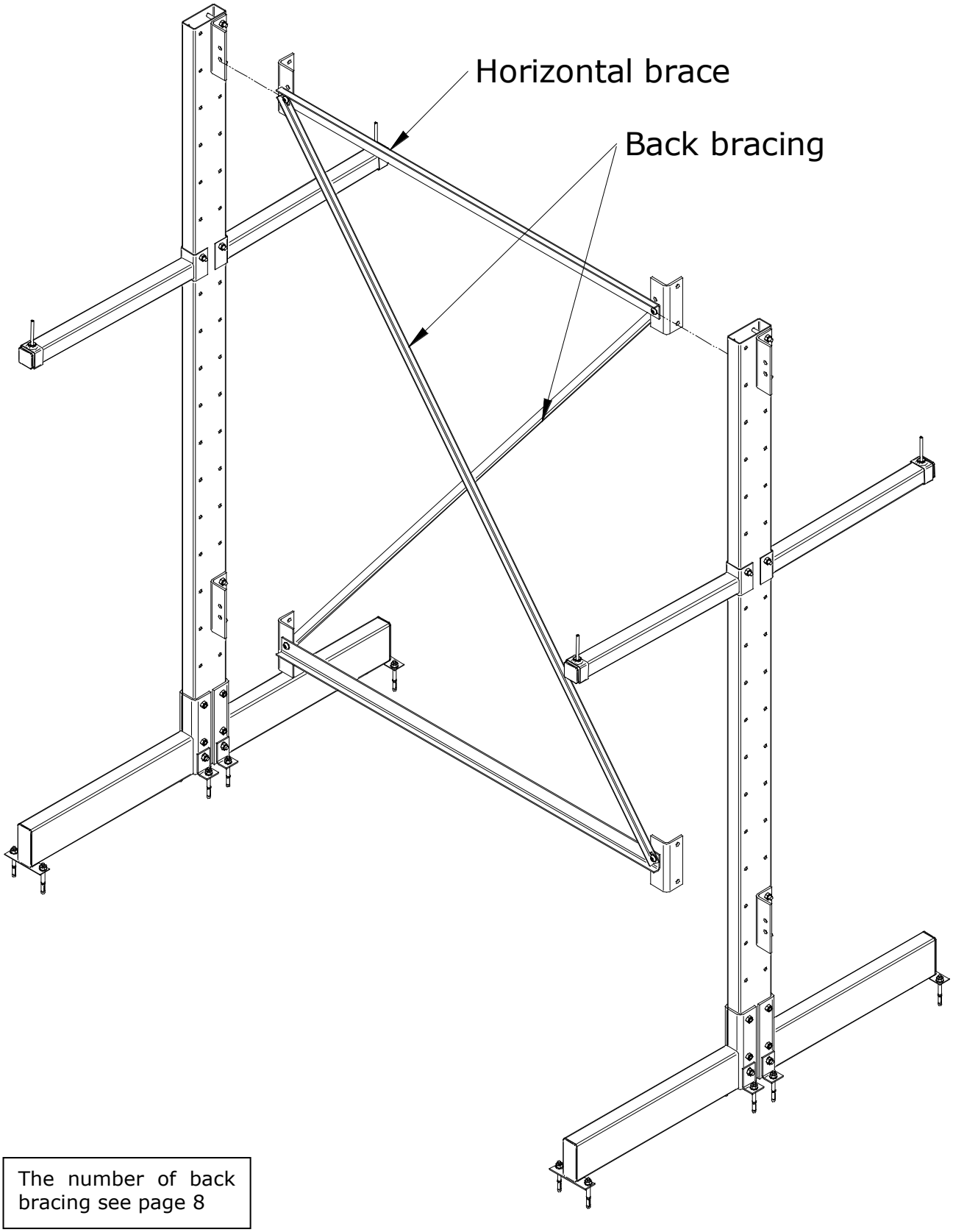
When mounting on other foundation than concrete contact B&R products

DETAIL END STOP (Optional)



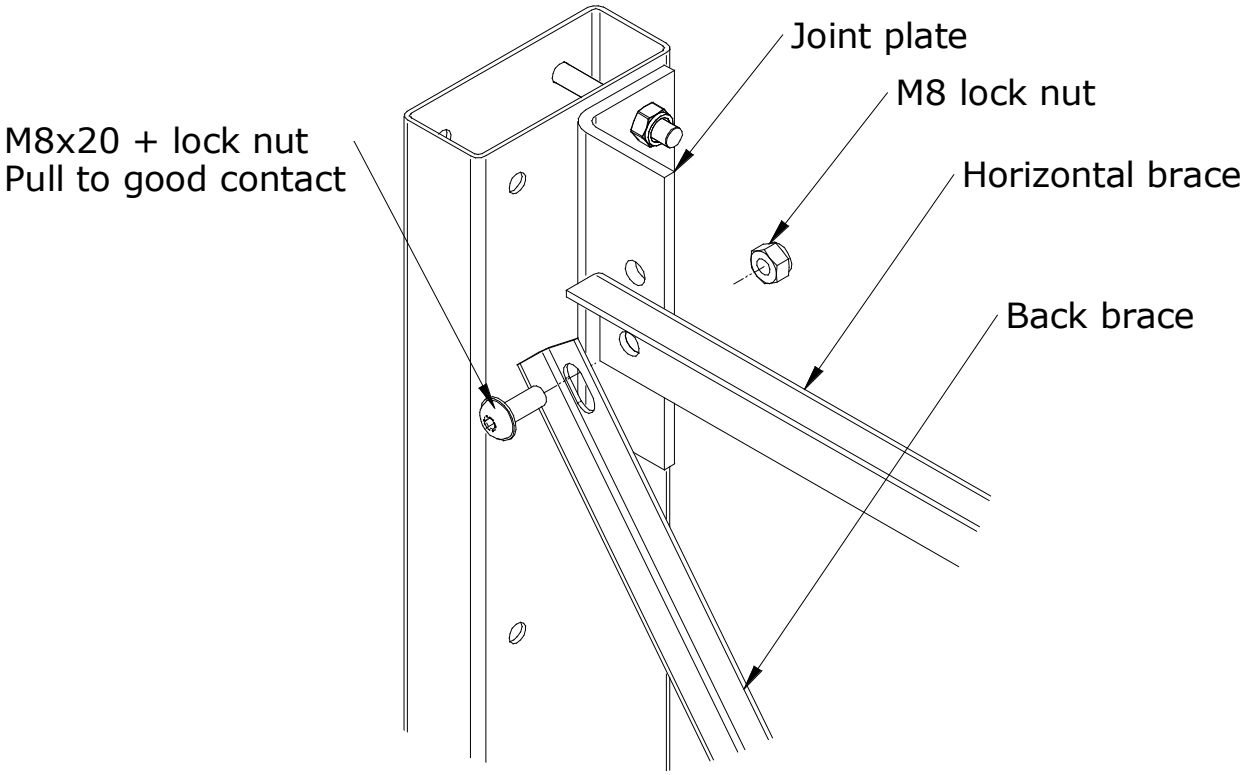
BRACING

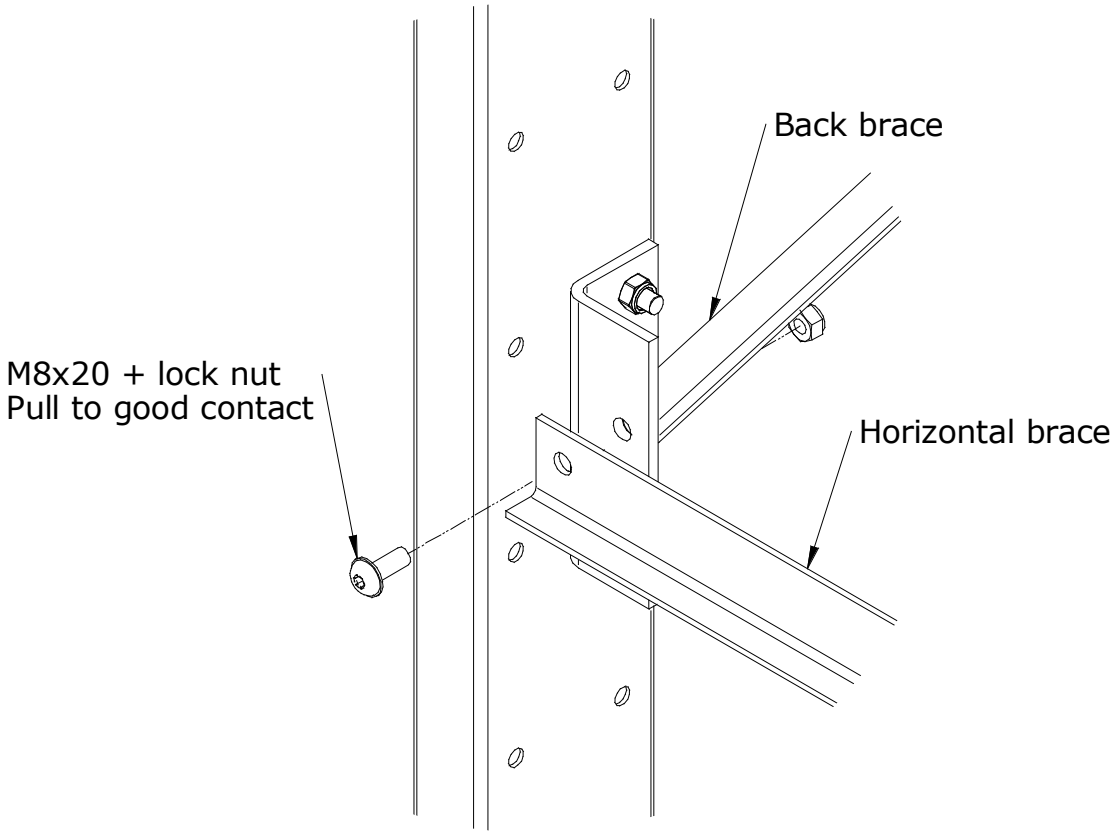
1 section



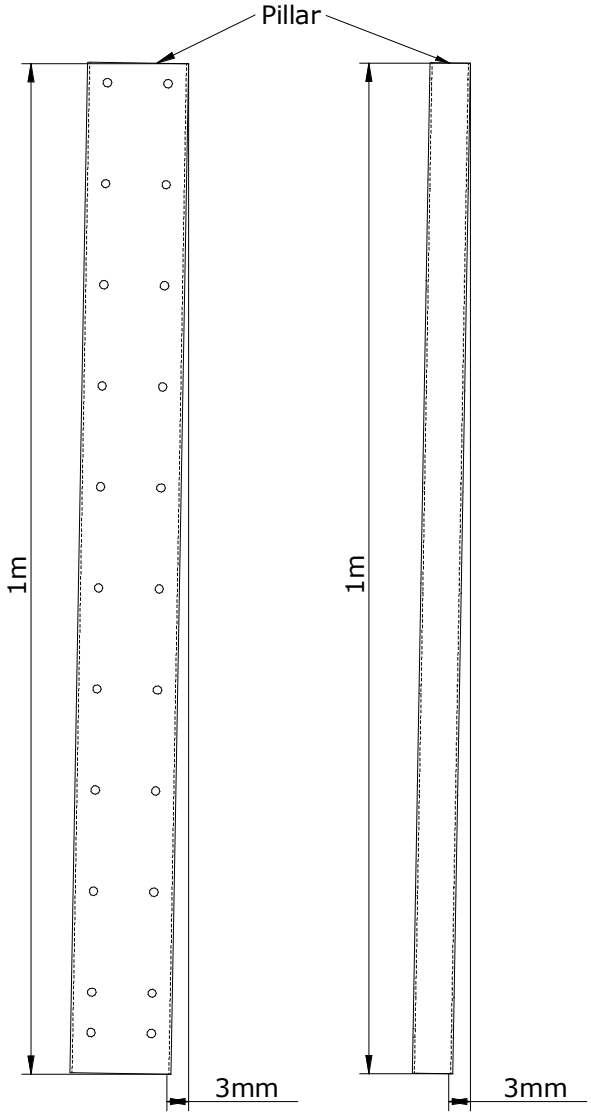
The number of back bracing see page 8

DETAIL BRACING





MAX GRADIENT OF AN UNLOADED PILLAR

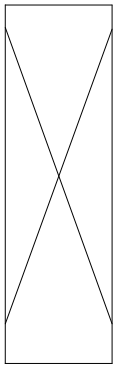


Max gradient is 3mm/m

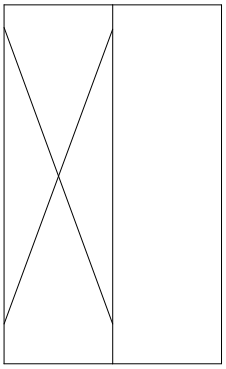
NUMBER OF BACK BRACING

$$\textit{The number of sections with back bracing} = \frac{\textit{number of sections}}{3} \Rightarrow \textit{round up}$$

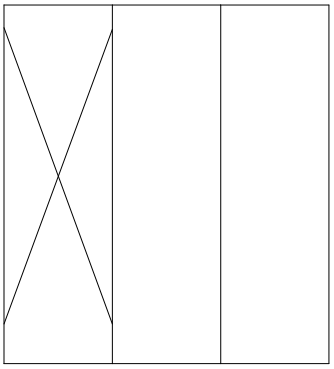
1 section



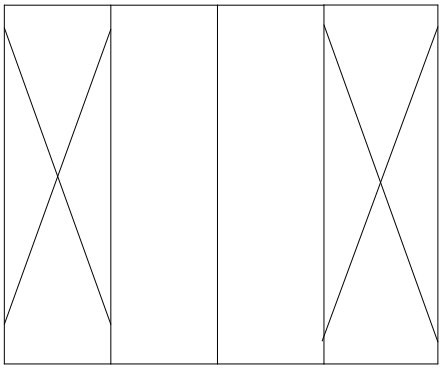
2 sections



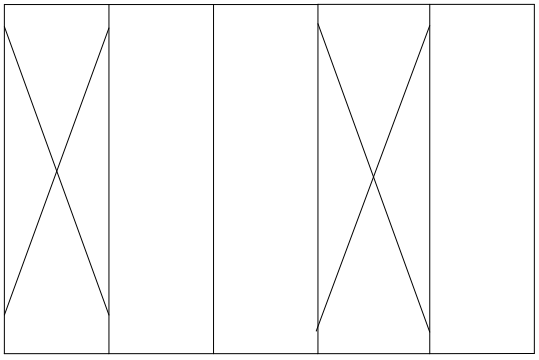
3 sections



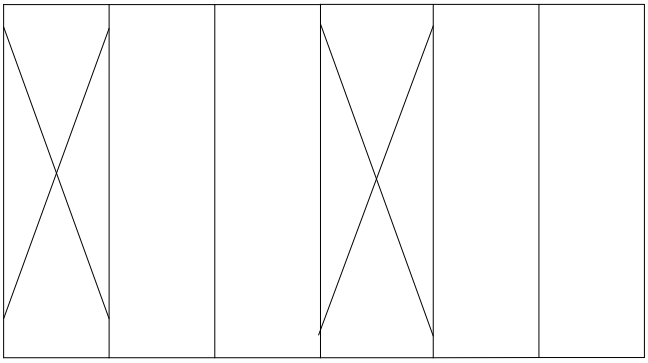
4 sections



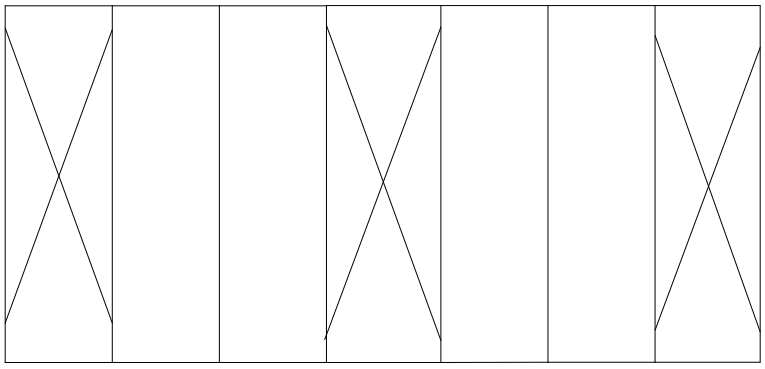
5 sections



6 sections



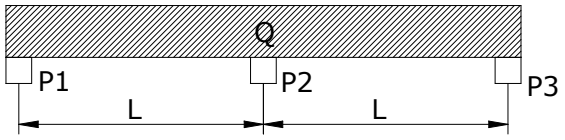
7 sections



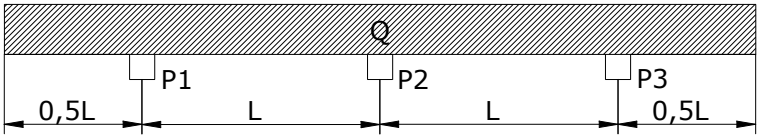
Placement of goods

Build and use the heavy cantilever racking according to NEN 5051 and 5052

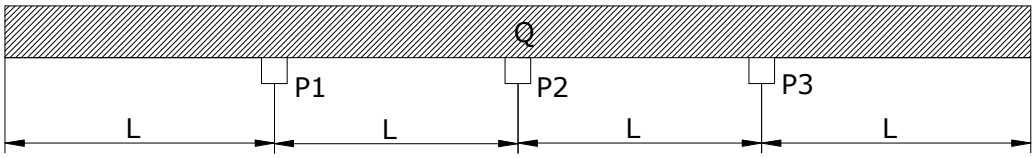
Q= Equal spread load
P= Load per arm
F= Total load



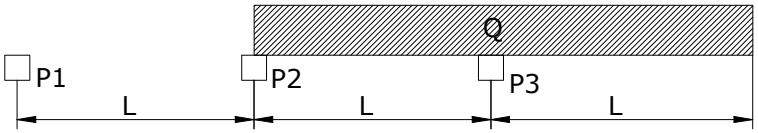
P1 = 0,2 Q
P2 = 0,6 Q
P3 = 0,2 Q



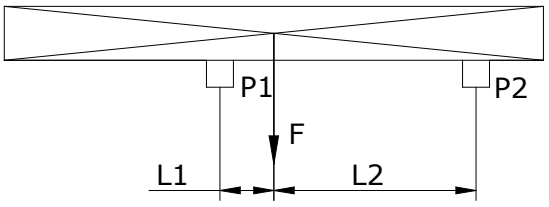
P1 = 0,35 Q
P2 = 0,30 Q
P3 = 0,35 Q



P1 = 0,5 Q
P2 = 0,0 Q
P3 = 0,5 Q



P1 = 0,0 Q
P2 = 0,0 Q
P3 = 1,0 Q



$$P1 = \frac{L2}{L1+L2} \cdot F$$

$$P2 = \frac{L1}{L1+L2} \cdot F$$

Load Capacities per arm

Pillar 2.000mm

Single-sided

		arm length [mm]		
		500	600	700
Number of arms per side [-]	1	200	200	200
	2	200	200	200
	3	200	200	200
	4	263	200	188
	5	200	173	149
	6	172	143	123
	7	146	122	105
	8	127	106	91

Double-sided

		arm length [mm]		
		500	600	700
Number of arms per side [-]	1	200	200	200
	2	200	200	200
	3	200	200	200
	4	200	200	186
	5	199	170	149
	6	166	142	123
	7	142	122	105
	8	124	106	91

Pillar 2.500mm

Single-sided

		arm length [mm]		
		500	600	700
Number of arms per side [-]	1	200	200	200
	2	200	200	200
	3	200	200	200
	4	200	176	151
	5	166	139	119
	6	137	115	98
	7	117	98	84
	8	102	85	73

Double-sided

		arm length [mm]		
		500	600	700
Number of arms per side [-]	1	200	200	200
	2	200	200	200
	3	200	200	200
	4	200	176	151
	5	166	139	119
	6	137	115	98
	7	117	98	84
	8	102	85	73

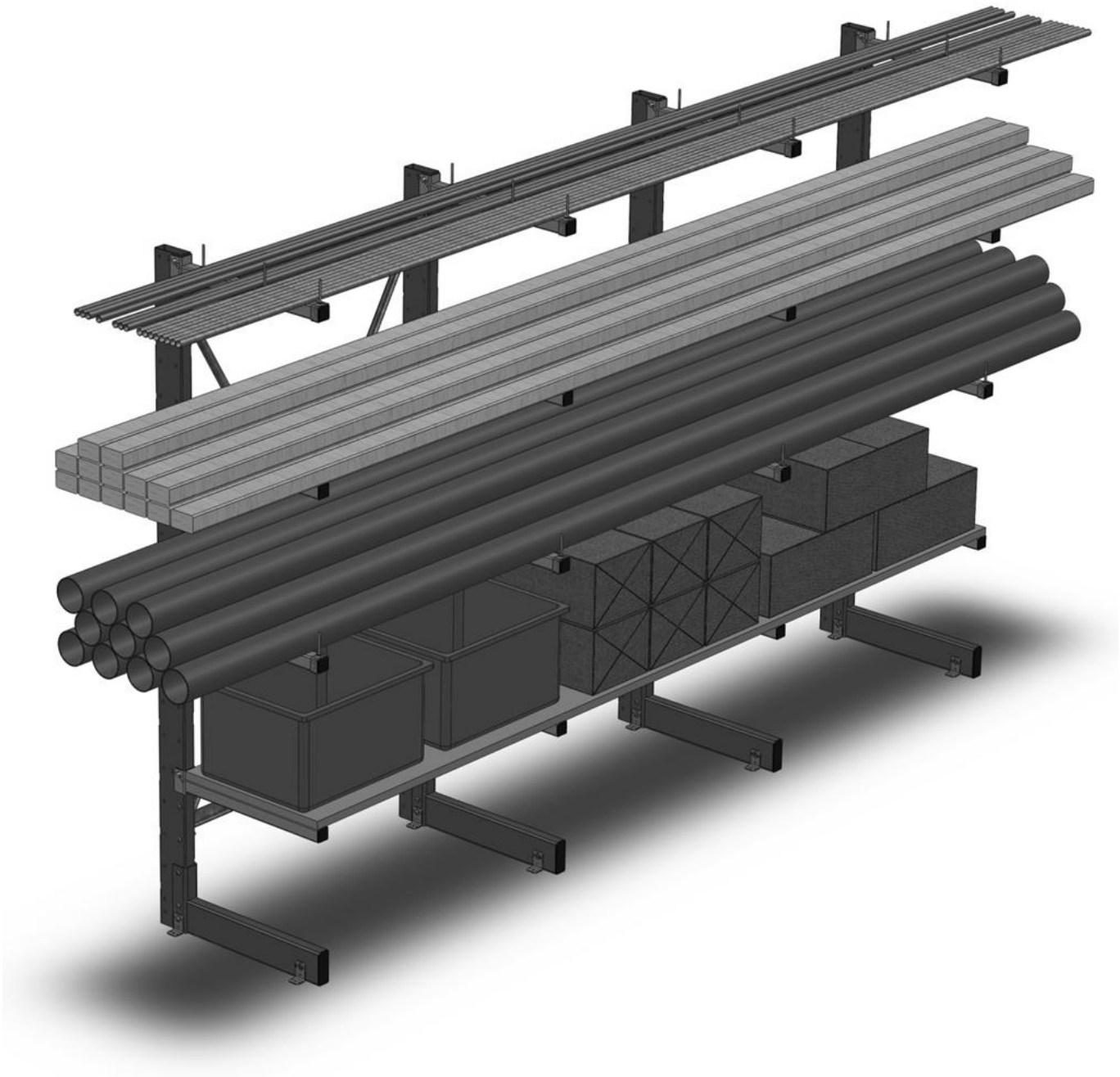
Pillar 3.000mm

Single-sided

		arm length [mm]		
		500	600	700
Number of arms per side [-]	1	200	200	200
	2	200	200	200
	3	200	200	200
	4	200	200	200
	5	200	185	159
	6	184	153	131
	7	156	130	112
	8	136	114	97

Double-sided

		arm length [mm]		
		500	600	700
Number of arms per side [-]	1	200	200	200
	2	200	200	200
	3	200	200	200
	4	200	200	200
	5	200	185	159
	6	184	153	131
	7	156	130	112
	8	136	114	97



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