

3. PHILIPP Fixing Socket with Cross Hole

3.1. Dimensions

Table 3: Load Bearing Capacities and Dimensions

Art.-No. galvanized	Type M	Load Rate	allow. F _Z [kN]	Dimensions [mm]				Weight [kg/100 pcs.]
				dia.D	h	e	dia.d	
6801206040	6	1.5	1.5	9.0	40	8	6.3	1.0
6801208040	8	2.0	2.0	11.0	40	10	8.3	1.0
6801208050	8	2.5	2.5	11.0	50	10	8.3	1.4
6801210050	10	3.5	3.5	13.5	50	11	8.3	1.9
6801212060	12	5.0	5.0	17.0	60	13	10.2	3.8
6801212070	12	6.0	6.0	17.0	70	13	10.2	4.3
6801216070	16	7.0	7.0	22.5	70	19	12.2	9.4
6801216080	16	8.0	8.0	22.5	80	19	12.2	10.8
6801216100	16	10.0	10.0	22.5	100	19	12.2	12.4
6801216120	16	12.0	12.0	22.5	120	19	12.2	14.4
6801220100	20	12.5	12.5	27.0	100	20	14.3	17.0
6801220120	20	14.0	14.0	27.0	120	20	14.3	21.3
6801224120	24	18.0	18.0	32.0	120	24	14.3	28.0
6801230150	30	27.5	27.5	42.0	150	30	17.2	66.0

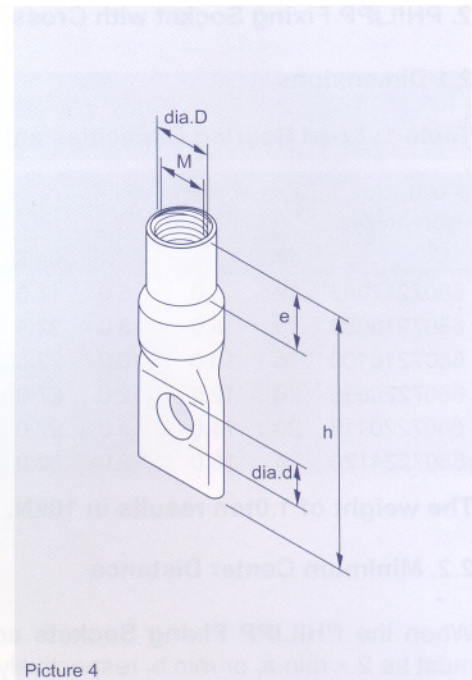
The weight of 1.0ton results in 10kN.

3.2. Minimum Center Distance

When the **PHILIPP Fixing Sockets** are installed the center distance must be $2 \times \min a_r$ or $\min b_r$ respectively (Table 4). The minimum center distances have to be chosen depending on the application in slabs or walls (Picture 5 and 6).

3.3. Edge Distance

PHILIPP Fixing Sockets can be installed with the distance $\min a_r$ or $\min b_r$ from the edge (Table 4). The minimum center distances have to be chosen depending on the application in slabs or walls (Picture 5 and 6).



3.4. Minimum Unit Thicknesses

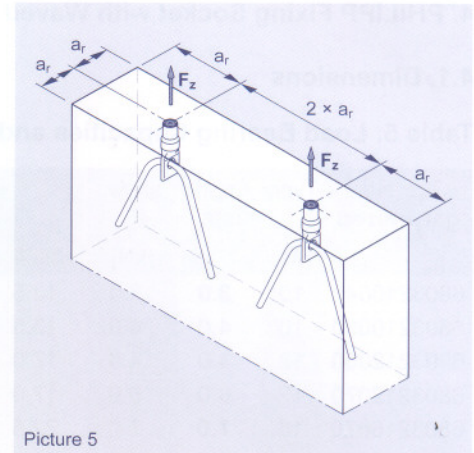
Table 4: Center Distances, Edge Distances and Unit Thicknesses

Art.-No. galvanized	Edge Distance min. a_r [mm]	Edge Distance min. b_r [mm]	Unit Thickness d [mm]
6801206040	60	80	65
6801208040	60	80	65
6801208050	75	100	75
6801210050	75	100	75
6801212060	90	120	85
6801212070	105	140	95
6801216070	105	140	95
6801216080	120	160	105
6801216100	150	200	125
6801216120	180	240	145
6801220100	150	200	125
6801220120	180	240	145
6801224120	180	240	145
6801230150	225	300	175

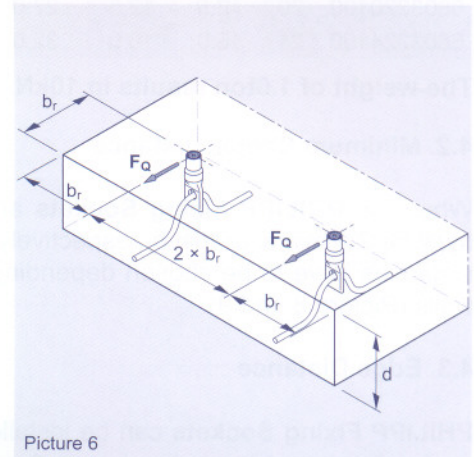
To ensure a safe load transfer it is inadmissible to undergo the edge distances given in Table 4. If a higher concrete cover is required the unit dimensions must be corrected.

On use of **PHILIPP Fixing Sockets** it must be taken into account that the concrete has a minimum concrete strength of **25N/mm²** at first time of loading.

If interaction of F_Z and F_Q occurs the **PHILIPP Fixing Sockets** are loaded by axial and lateral tension. In that case the adjoining equation must be fulfilled. That means that the same force is admissible for an inclination of 0° till 90°.



Picture 5



Picture 6

$$\sqrt{F_Z^2 + F_Q^2} \leq \text{allow. } F_Z$$