

General suggestions for hinge placement

The following design fundamentals are authoritative for hinge placement: Size and weight of door, wall thickness of section, frame design, how the door opens, type of loading, hinge mounting. This information is essential for a precise design calculation.

	Object	Max. door size [mm]	Max. door weight [kg]	Upper-door closer OTS	Swing door drive mechanism	Closing sequence controller	Recommended hinge placement	Arrangement
Normal loading	Detached House	1250 x 2000	160				2 units two-piece	Distance from door edge approx. 150 mm
	Detached House	1250 x 2000	180				3 units two-piece	Third hinge approx. 150 mm below the top hinge
	Building with multiple dwelling	1250 x 2000	160				2 Stück three-piece	Distance from door edge approx. 150 mm
	Building with multiple dwelling	1250 x 2000	180				3 units three-piece	Third hinge approx. 150 mm below the top hinge
	Building with multiple dwelling	1250 x 2000	160	■			3 units three-piece	Third hinge approx. 150 mm below the top hinge
	Building with multiple dwelling	1250 x 2000	180	■			4 units three-piece	Two hinges with one below the other at the top and one in the middle
Significant loading	Hospital, school, ...	1250 x 2000	160	■			3 units three-piece	Third hinge approx. 150 mm below the top hinge
	Hospital, school, ...	1250 x 2000	180				4 units three-piece	Two hinges with one below the other at the top and one in the middle
	Hospital, school, ...	1250 x 2000	160		■		3 units three-piece	Third hinge approx. 150 mm below the top hinge
	Hospital, school, ...	1250 x 2000	180		■		4 units three-piece	Two hinges with one below the other at the top and one in the middle
	Hospital, school, ...	1250 x 2000	160			■	3 units three-piece	Third hinge approx. 150 mm below the top hinge
	Hospital, school, ...	1250 x 2000	180			■	4 units three-piece	Two hinges with one below the other at the top and one in the middle

These general suggestions for hinge placement were based on the frame sections of standard width (approx. 45 mm) with wall thicknesses of roughly 2 mm. We recommend that you contact our free design calculation service, should you have any doubts, since the individual door-frame systems vary significantly in terms of projected widths and wall thickness and the mounting of the hinges to the frame play a major role. To determine the necessary hinge placement, we need some details from you. Please ask for our questionnaire about hinge placement. **Important:** All information and calculations are only valid for original Hahn hinges since they are based on the specific design characteristics of Dr. Hahn hinges.



Bearing points made of maintenance-free plastic containing Teflon
– do not lubricate!