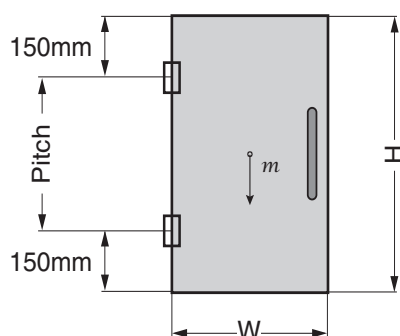


## Reference Table

		Door Width (mm)												
		750	800	850	900	950	1000	1050	1100	1150	1200			
Door Height (mm)	2700	(kg) 100	100	100	100	100	100	100	100	100	100	100	2400	Hinge Pitch (mm)
	2650	100	100	100	100	100	100	100	100	100	100	100	2350	
	2600	100	100	100	100	100	100	100	100	100	100	100	2300	
	2550	100	100	100	100	100	100	100	100	100	100	90	2250	
	2500	100	100	100	100	100	100	100	100	100	100	90	2200	
	2450	100	100	100	100	100	100	100	100	100	90	90	2150	
	2400	100	100	100	100	100	100	100	100	90	90	90	2100	
	2350	100	100	100	100	100	100	100	90	90	90	80	2050	
	2300	100	100	100	100	100	100	100	90	90	90	80	2000	
	2250	100	100	100	100	100	100	100	90	90	80	80	1950	
	2200	100	100	100	100	100	100	100	90	90	80	80	1900	
	2150	100	100	100	100	100	100	90	90	80	80	80	1850	
	2100	100	100	100	100	100	100	90	80	80	80	70	1800	
	2050	100	100	100	100	100	90	90	80	80	70	70	1750	
	2000	100	100	100	100	100	90	80	80	80	70	70	1700	
	1950	100	100	100	90	90	80	80	80	70	70	70	1650	
	1900	100	100	90	90	80	80	80	70	70	70	60	1600	
1850	100	100	90	90	80	80	80	70	70	70	60	1550		
1800	100	90	90	80	80	80	70	70	70	60	60	1500		
1750	100	90	80	80	80	70	70	70	60	60	60	1450		

Indicates standard tested values present in our catalogue (passed 300,000 cycles in private cycle test).

### Hinge position (for calculated load values):



The door's centre of gravity is assumed to be in the centre of the door. If a heavy handle is installed on the door, it will affect the calculation.

» The yellow section shows the HES3D-E190's standard specifications, as indicated in the Sugatsune catalogue.

» Values outside of the yellow section are for reference only, based on hinge resistance calculation. This does not guarantee optimal performance and Sugatsune recommends testing before final installation.

» Figures outside the standard specifications do not take durability or possible sagging of the door into account.

» In case of use outside the standard specifications, Sugatsune recommends leaving a larger gap between door and floor to allow for possible door sagging.

» Ensure that the door weight accounts for both the hinge and door closer specifications.

» The use of a door closer may significantly reduce the operational lifespan of the hinges and/or may cause them damage.