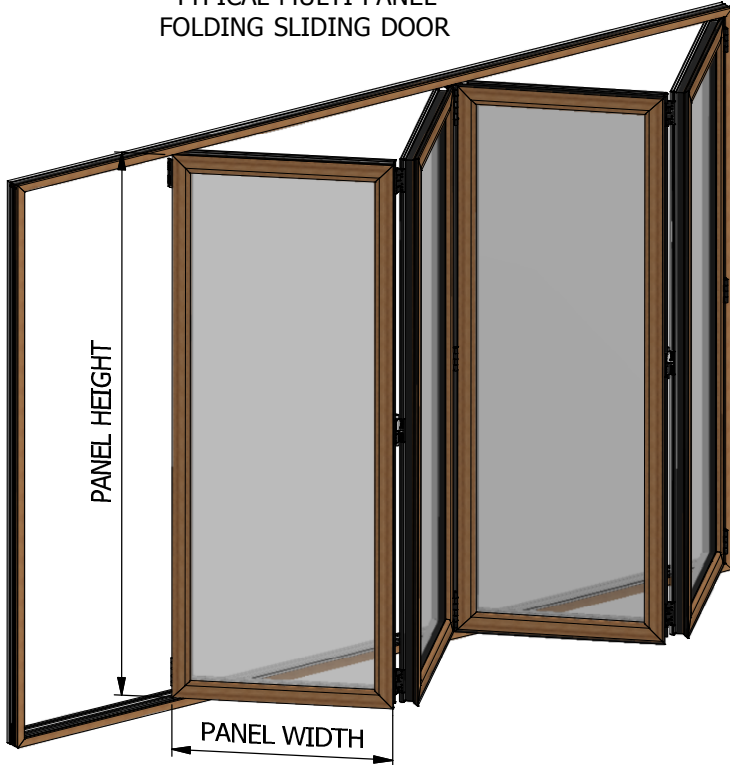


## FOLD AND SLIDE HARDWARE WIDTH TO HEIGHT RATIO vs SWL

TYPICAL MULTI PANEL  
FOLDING SLIDING DOOR



The Caldwell Hardware range of fold and slide door hardware is rated to a SWL (Safe Working Load) of 100Kg per panel.

The maximum rated panel size is 1000mm wide x 2400mm high. If using standard 4mm and 6mm double glazing thicknesses then all panel sizes can be accommodated up to the maximum size.

If using some heavy speciality glasses such as acoustic glass, it can be possible to have a small but very heavy panel. This can lead to lateral overloading on the top guides and rollers. A "width to height" rule is used to prevent this over load from occurring. See table below.

The wider the panel width is in comparison to the height, then the higher the lateral loading is applied to the hardware. This is because the width is a higher proportion of the height and this results in a higher leverage between the panels centre of gravity and the top guide.

**WIDTH TO HEIGHT RATIO TABLE  
PANEL HEIGHT**

	1800 MM	1900 MM	2000 MM	2100 MM	2200 MM	2300 MM	2400 MM
700 MM	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG
725 MM	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG
750 MM	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG
775 MM	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG
800 MM	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG
825 MM	98.2 KG	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG
850 MM	95.3 KG	100 KG	100 KG	100 KG	100 KG	100 KG	100 KG
875 MM	92.6 KG	97.7 KG	100 KG	100 KG	100 KG	100 KG	100 KG
900 MM	90.0 KG	95.0 KG	100 KG	100 KG	100 KG	100 KG	100 KG
925 MM	87.6 KG	92.4 KG	97.3 KG	100 KG	100 KG	100 KG	100 KG
950 MM	85.3 KG	90.0 KG *	94.7 KG	99.5 KG	100 KG	100 KG	100 KG
975 MM	83.1 KG	87.7 KG	92.3 KG	96.9 KG	100 KG	100 KG	100 KG
1000 MM	81.0 KG	85.5 KG	90.0 KG	94.5 KG	99.0 KG	100 KG	100 KG

This table is not required for 4mm and 6mm double glazing.

When compared to the maximum weight sample panels stated in BS EN 1527:2013 then the above weights exceed these by 20%.

\* Example SWL calculation as follows :

$$950w \times 1900h \text{ panel size} = (0.45/(950/1900)) \times 100 = 90Kg$$

Test sizes = 750w x 2000h = 750/2000 = 0.375. Therefore 0.375 x 20% = 0.45 Caldwell maximum ratio.

All of the information shown on this data sheet was correct at the time of issue. All information however is subject to change and therefore it is advisable to check with Caldwell Hardware to ensure that you have the latest issue level.