

Product	Core Thickness (mm)	R Value (m ² K/W)	0.5/0.5 Steel Weight (Kg/m ²)	Wall Max. Height* (m)	Ceiling Span** (m)
KS1100 CS	50	2.65	10.00	5.2	3.7
KS1100 CS	75	3.90	11.00	7.0	4.6
KS1100 CS	100	5.15	12.10	9.1	6.0
KS1100 CS	125	6.40	13.01	10.5	7.5
KS1100 CS	150	7.65	14.2	11.8	9.1
KS1100 CS	200	10.15	16.3	11.8	11.0

* Walls – Load of 0.3kPa applied and a maximum deflection of L/150.
 ** Ceiling – Dead Load applies plus a UDL of 0.25kN/m² and a point load of 0.9kN. Maximum deflection L/200.

Deflection Ratio

Pressure = Span/150 Suction = Span/150
 Unfactored Load/Span Table (Use calculated design windload values unfactored)

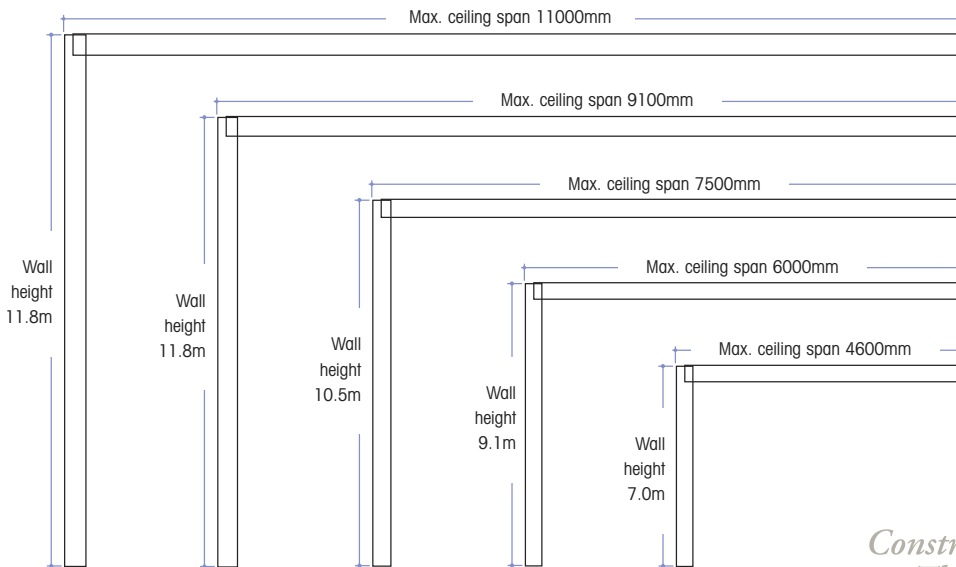
Internal operating temperatures & KS1100 CS panel thicknesses (indicative only)

External Ambient Temperature 20 °C	Internal Operating Temperature (°C)															
	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	-50
KS1100 CS - 75mm	[Bar chart showing internal temperature range for 75mm panel]															
KS1100 CS - 100mm	[Bar chart showing internal temperature range for 100mm panel]															
KS1100 CS - 125mm	[Bar chart showing internal temperature range for 125mm panel]															
KS1100 CS - 150mm	[Bar chart showing internal temperature range for 150mm panel]															
KS1100 CS - 200mm	[Bar chart showing internal temperature range for 200mm panel]															

The recommended minimum insulation value for coldstores is 10W/m² heat gain

KS1100 CS product application & selection

Recommended self supporting internal wall & ceiling spans, for external span information or further technical queries please contact Kingspan Technical Services on (03) 358 7536.



- Notes:
- Structural loading parameters are based on the following:-
 - Wall**
 - Panel thickness x 80
 - Temperature and gradient over panel 0°C
 - Maximum deflection L/150
 - Internal loading 0.3kN/m²
 - Ceiling**
 - Temperature and gradient over panel 0°C
 - Maximum deflection L/200
 - Panel dead weight, a point load of 0.9kN and a UDL of 0.25kN/m²
 - Maximum wall panel length = 11800 with intermediate restraint
 - Panel spans shown are for buildings with a positive internal temperature, for sub-zero internal temperature applications additional height restrictions apply. Contact Kingspan Technical Services for details.