

HPT Control 30 - Freezer

100mm, 125mm and 150mm – Deflection Temperature Difference = 50°C
30 minute fire rated composite panels for use as internal walls and ceilings.



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PANEL DATA

Cover width:
1155mm

Panel Thickness (mm)	Min. Panel Length (m)	Max. Single Span Wall Height * (m)	Max. Single Span Ceiling * (m)	Thermal Transmittance U W/M ² K ***	Deflection Temp. Difference *	Weight Kg/m ² (0.5/0.5)
100	2.0	7.61	5.32	0.20	50°C	11.60
125	2.0	9.09	6.44	0.16	50°C	12.50
150	2.0	10.50	7.49	0.13	50°C	13.40

* Max. Single wall spans (horizontal and vertical) are based on a combination of stress and deflection of 0.3kN/m² with both walls and ceilings on a temperature difference (between internal and external environments) of 50°C, typically encompassing chill and ambient production zones. For structural loadings beyond the above stated, consult HPT.

For specific Fire Rated spans, please refer to the **HPT 'Fire Rating Matrix' document**.

The stated temperature difference may decrease when used within higher temperature zones such as chill and ambient production areas, this will allow the stated spans above to increase, refer to 'HPT Control 30 – Chill and Ambient' datasheet for further guidance.

Max. Single ceiling spans are based on 0.9kN point load at mid-span and 0.25kN/m² UDL (**HPT strongly recommend referring to our 'Ceiling Care' document for greater detail**). Minimum bearing/support of 50mm at panel ends. Consult HPT for further information on permitted bearing loads and edge supports.

Panels are manufactured to bespoke lengths starting at the stated minimums above; maximum lengths stated may be increased upon referral to HPT up to a manufacturing capability limit of 15m**

** HPT should be consulted on any panel lengths greater than the maximum stated in the above table due to the difficulties faced when handling and on installation. Spans greater than 10.50m(Walls) / 7.49m(Ceilings) typically captured within the Control 60 product range.

*** Calculated using the method required by the Building Regulations Part L2 (England & Wales) and Building Standards Part J (Scotland). Thermal transmittance based on λ mean = 0.02038 W/Mk.

MATERIALS - STEEL

Panel Finishes *	Internal Steel Face	External Steel Face	Steel Substrate **	Paint Thickness μ m (nominal)	Laminate Thickness μ m (nominal)
Foodsafe Laminate	✓	✓	0.5mm Z225 HDG	-	120
Foodsafe Polyester	✓	✓	0.5mm Z225 HDG	25	-
Primer/Liner	✓	✓	0.5mm Z225 HDG	7-10	-

* Other finishes available on request.

** 0.7mm steel available on request (will increase weight).

Facing Profile Options:

- 100 Rib
- Smooth
- Microrib (one face only)

INSULATION CORE

PIR Polyisocyanurate closed cell insulation HCFC free zero ODP rated core.

Panel Thickness	100mm	125mm	150mm
Max. Thermal Temp. Difference *	50°C	62°C	75°C

* Temperature difference between internal and external environments.

PANEL JOINT

Tongue and groove joint achieves excellent vapour resistance, hygiene seal, thermal and fire performance.

AIR LEAKAGE

Panel joint air-tightness = 0.01 m³/m²/hr at 50 Pa when tested to EN 12114 in accordance with BS EN 14509: 2013.

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FIRE

Reaction to fire:

White Foodsafe Laminate (WFSL) faced panels have a reaction to fire according to EN13501-1 of: B, s2, d0. (50mm exclusion = B, s3, d0.)

For fire specification on other panel finishes please contact HPT.

Fire resistance:

FM4880:

Class 1 fire rating of building panels or interior finish materials.

For internal use only up to a maximum height of 9.1m and for panel thicknesses between 100 and 150mm.



LPCB LPS 1208 Cert:558a:

LPS Rating FR30 for 100-150mm thicknesses with maximum unsupported span 4m (walls) & 7.5m (ceilings).

BS EN 13501-2: 2016:

125-150mm thicknesses achieve EI30 under Extended field of Application BS EN 15254-5: 2009 with maximum unsupported span 12m (walls).

Please refer to the HPT 'Fire Rating Matrix' document for further detail, available to download from our website.

ACOUSTICS

All panels have a predicted figure weighted sound reduction $R_w = 26\text{dB}$.

QUALITY & DURABILITY

HPT metal faced panels are manufactured from high quality materials, using state of the art production equipment to rigorous quality control standards (complying with an approved BS EN ISO 9001:2015 QMS standard) ensuring long-term durability and service life.

GUARANTEES & WARRANTIES

Dependant upon application, please contact HPT.

PACKAGING

HPT metal faced composite insulated panels are stacked horizontally with protective jiffy foam laid between the ends of each panel; they are then wrapped in polythene and strapped on top of a 3mm hardboard sheet to prevent forklift damage and to protect against the weather. The pack is supported by a number of polystyrene bearers, (150mm x 100mm), regularly spaced under the hardboard to keep the panels elevated from the floor avoiding dirt and possible damage.

The number of panels in each pack depends on panel length and weight. Typical pack height is 1100mm.

Panel Thickness	100mm	125mm	150mm
No. panels/pack (max)	9	7	6

Maximum pack weight is 1000kg. Each pack is labeled with project information and customer panel references.

DELIVERY & SITE PROCEDURES

All deliveries are made by road transport to the project site, subsequent offloading and storage is the responsibility of the customer. Please refer to the HPT 'Panel Care Instructions' document for further detail, available to download from our website.

Indicative drawing details are available on request from HPT.