

# 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 <sup>2</sup> K ***	Deflection Temp. Difference *	Weight Kg/m <sup>2</sup> (0.5/0.5)
100	2.0	7.61	5.32	0.20	50°C	12.6
125	2.0	9.09	6.44	0.16	50°C	13.7
150	2.0	10.50	7.49	0.13	50°C	14.8

\* Max. Single wall spans (horizontal and vertical) are based on a combination of stress and deflection of 0.3kN/m<sup>2</sup> 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/m<sup>2</sup> 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  $\lambda$  mean = 0.02038 W/Mk.

## MATERIALS - STEEL

Panel Finishes *	Internal Steel Face	External Steel Face	Steel Substrate **	Paint Thickness $\mu$ m (nominal)	Laminate Thickness $\mu$ 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.

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## AIR LEAKAGE

Panel joint air-tightness = 0.01 m<sup>3</sup>/m<sup>2</sup>/hr at 50 Pa when tested to EN 12114 in accordance with BS EN 14509: 2013.

## 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 Approved.

LPCB LPS 1208 Cert:558a.

Please refer to the HPT 'Fire Rating Matrix' document.

## ACOUSTICS

All panels have a predicted figure weighted sound reduction  $R_w = 27dB$ .

## QUALITY & DURABILITY

HPT 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 QMS standard) ensuring long-term durability and service life.

## GUARANTEES & WARRANTIES

Please refer to HPT, typically up to 20 years product warranty available (dependant on application).



PANEL WARRANTY

## PACKING

### Standard Packing

HPT panels are stacked horizontally. Protective jiffy foam is laid between the ends of each panel. The entire pack is wrapped in protective polythene.

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

All deliveries are by road transport to project site. Off loading & storage is the responsibility of the customer.

## SITE PROCEDURE

Panel care information and indicative drawings are available from HPT.