

DELTA PANELS INTERNAL WALL, CEILING & COLD STORAGE APPLICATIONS 0.6mm Delta Cool TPC																		
Application	Maximum Pressure	Single Span (m)									Continuous Span (m)							
		50mm	75mm	100mm	125mm	150mm	175mm	200mm	250mm	50mm	75mm	100mm	125mm	150mm	175mm	200mm	250mm	
Non Load Bearing Walls	0.25 kPa	5.43	6.72	7.99	9.25	9.17	9.51	10.00	10.53	6.11	6.92	7.99	9.25	9.17	9.51	10.00	10.53	
Load Bearing Walls		4.02	4.97	5.91	6.84	6.78	7.04	7.40	7.79	4.52	5.12	5.91	6.84	6.78	7.04	7.40	7.79	
Ceilings		3.64	4.50	5.35	6.20	6.14	6.37	6.70	7.05	4.09	4.63	5.35	6.20	6.14	6.37	6.70	7.05	
Non Load Bearing Walls	Chiller >0°C			5.59	6.47	7.33	7.61	8.00	8.42			5.59	6.47	7.33	7.61	8.00	8.42	
	Freezer <0°C					6.42	6.66	7.00	7.37					6.42	6.66	7.00	7.37	
	Blast Freezer <-25°C							6.40	6.74							6.40	6.74	
Load Bearing Walls	Chiller >0°C			5.11	6.38	6.42	6.66	7.00	7.37			5.42	6.51	6.55	6.79	7.14	7.52	
	Freezer <0°C					6.42	6.66	7.00	7.37					6.42	6.66	7.00	7.37	
	Blast Freezer <-25°C							6.40	7.37							6.47	6.78	
Ceilings	Chiller >0°C			4.96	6.20	6.14	6.37	6.70	7.05			4.71	5.89	5.84	6.05	6.37	6.84	
	Freezer <0°C					6.14	6.37	6.70	7.05					5.60	5.81	6.11	6.57	
	Blast Freezer <-25°C							6.30	7.05							5.80	6.21	

NOTES:

Wall Panels

Internal wall pressures must be determined for every application.

Tables are only for cold room buildings built within a larger enclosed building without large openings.

Ceiling Panels

SDL of 0.1 kPa is allowed

Maintenance Access Load of 1.1kN allowed

0.25kPa DLL allowed

Mushroom head suspension is required (1 per panel per line of support)

Deflection limit = Span / 150

Wall panels must be fully supported at base

Load bearing walls maximum load = 3.0kN/m loaded centrally

Provide pressure relief ports for freezers

Free standing cold rooms shall have their bracing capability assessed.

Certifying engineer is to make panel selection

