



TECHNICAL DATA SHEET

PI PRE-INSULATED PANEL (Normal)

S.R. NO.	DESCRIPTION							
1	Pre insulated aluminium ductwork made of aluminium/ polyisocyanurate sandwich panel,comprising an expanded Polyisocyanurate rigid foam board faced on both sides by aluminium foil.							
2	Physical characteristic of the panel s shall be as follows:							
	Thickness of Panels	Air –conditioned Areas		Plant Rooms		Exposed to Weather		
		20	mm	20	mm	20	mm	
	Density of the foam	45±3	Kg/m3	45±3	Kg/m3	45±3	Kg/m3	
	Finishing of Aluminium	Em-bossed	Em-bossed	Em-bossed	Em-bossed	Em-bossed	Em-bossed	
3	Both sides of the aluminium foils shall be lacquered with a 2g/m2 weatherproof and ultraviolet rays protection polyester lacquer.							
4	Insulating Material : Close cell rigid polyisocyanurate foam,CFC free density 44 to 48 Kg/m3,material physilologically and chemically inert and insoluble vermin proof, fungus proof,non metabolisable.							
5	Thermal Conductivity:0.021W/MK or better.							
6	water absorption shall be less than 0.5% by 24 hours immersion test .							
7	The aluminium foil covering the panel to be maintained intact after installation to ensure vapour barrier continuity.							
8	Class 0 according to BS 476 part 6 & 7							
9	No relevant reduction of insulation, chemical or physical characteristics of the panel to be measurable ,when conveying air in the temperature range of -35o-C to 110cC.							
10	No relevant modification of insulation, chemical or physical characteristics of the panel to be measurable, when conveying air up to the pressure of 1750 Pascal .							
11	Duct work plenums to be fabricated strictly in accordance manufacturer requirements and recommendations, using manufacturers materials and accessories as whole .							
12	Duct work and plenums shall be fabricated & joined in accordance with manufacturer’s instructions.							
13	The maximum length of individual duct shall not exceed 4000mm.							
14	Duct work shall be installed, using supports as described in DW 144& according to manufacturer’s requirements. Maximum distance between supports shall not exceed.(a(4000mm for ducts with section not exceeding 1200x1000m (b)2000mm for ducts with section exceeding 1200x1000mm.							