Alpha Consulting Engineers Pte Ltd

Inspection Check List for Insulation for Air Duct/Water Pipe Installation

Project : _____ Contractor : _____

Inspection Refer No. : _____ Date : _____

Unit No. / Location : _____

S/n	Items	Complied		Remarks
		Yes	No	
1	Surface of air duct / chiller water pipe / condensate water pipe etc. to receive insulation is clean from dust, grease and water			
2	Approval type, brand and make of insulation is applied			
3	Thickness and density of insulation materials are complied with specification and approval			
4	Adhesive agent is properly and thoroughly applied			
5	Vapour barrier is installed with approval materials and complied with specification			
6	Jacketing is installed with approval materials and complied with specification			
7	In prior to installation of insulation and vapour barriers, all pipes and air duct (if applicable) are hydraulic satisfactorily tested			
8	Installation details of insulation for chilled water pipe is complied with the following typical details, where applicable and unless otherwise approval - **SM(P1)-2** – Details of vapor seal barrier for chilled water pipe and chilled water pipe supports - **SM(P1)-5** – Typical pipe guide for bare and insulated pipes - **SM(P1)-8** – Details of typical pipe support for insulated pipe of 150mm dia. and below - **SM(P1)-9** – Details of typical pipe support for insulted pipe of size above 150mm dia.			
9	Pipe works and air duct finished with insulation and cladding are painted with specified and approval colour code, unless otherwise specified by Architect			
10	Painted water pipes and air ducts is labelled with directional size and type of water or air serve, i.e. chilled water supply pipe or return air duct, etc.			
11	Insulation of all ducts where exposed to weather is unless otherwise specified, supercoated with 15 mm hard setting mineral fibre cement, similar to B.I. No 450 Insulation Cement, applied in two coats and reinforced using 15 mm wire mesh trowelled to a clean smooth finish and painted to approval			

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Remarks / comments

Conduct by	:		Company	:	Date :
Signature	:				
Inspect by	:		Company	:	Date :
Signature	:				
Witness by	:		Company	:	Date :
Signature	:				
Approve by	:		Company	:	Date :
Signature	:				

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