

Undertaking Letter for Insulation

We the (consultant/contractor) responsible for the design and supervision of the project undertake to use approved thermal insulation materials and glass specifications as indicated in the sections and schedules including approved systems and installation methods.

And we commit that the attached thermal insulation sections are matching the architectural and structural details.

The minimum EER of the HVAC equipments must be in accordance with the AL SA'FAT

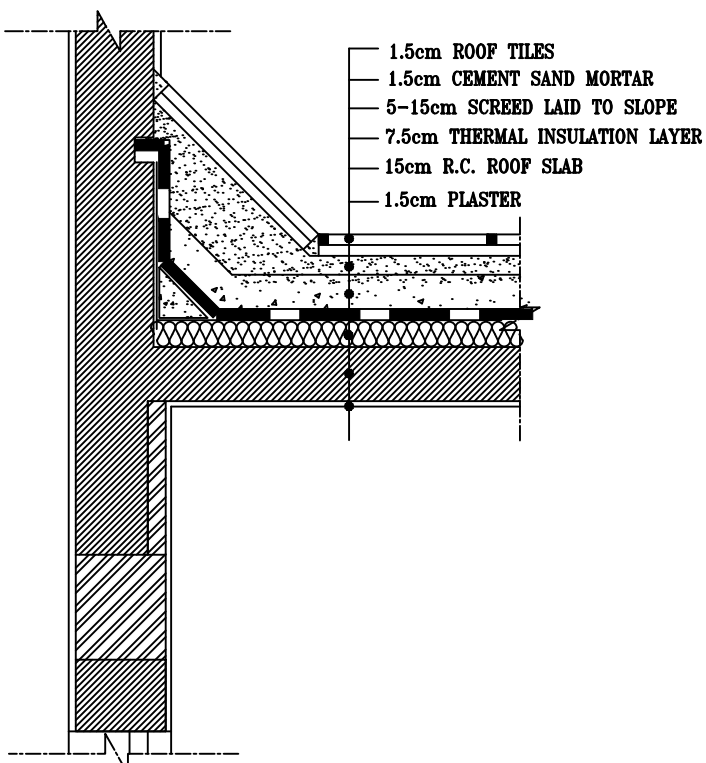
AC Thermal Load	=	Total Area (m ²)	x	0.160
	=	<input type="text"/>	m ² x	0.160
	=	<input type="text"/>	kW	
kW				

AC Electric Power Demand	=	Total Area (m ²)	x	0.077
	=	<input type="text"/>	m ² x	0.077
	=	<input type="text"/>	kW	
kW				

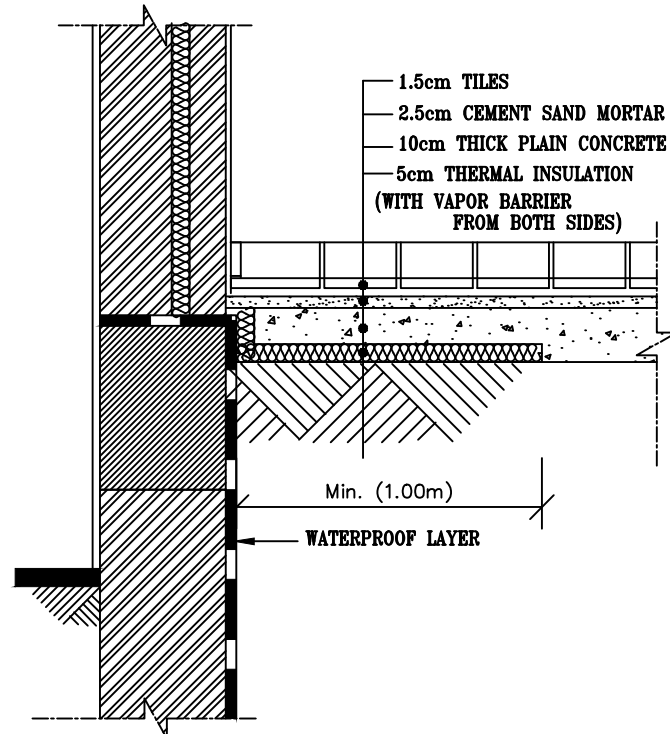
Where the total area is the total built up area excluding non AC car park or external swimming pool

Notes and Conditions:

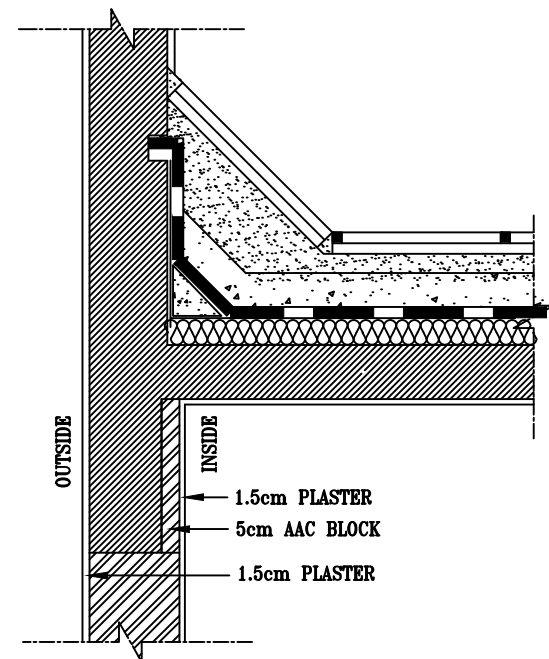
- The above two equations are applicable for DX air conditioning system only. If another system is being used (like chilled water, or variable refrigerant flow VRF), then all VAC drawings, glazing element schedule, AC load schedule, AC load calculation program should be attached as per AI SA'FAT
- Consultant must confirm prior to approving or installing AC units in the site that the electric demand load for AC units doesn't exceed the allowed and approved load. If extra load is required, then all VAC drawings, glazing element schedule, AC load schedule, AC load calculation program should be attached as per AI SA'FAT
- An approved insulated aluminium sandwich panel (applied for roof) is used and illustrated on the architectural sections and details (if being used).
- The U-value, SC, and LT must comply with AI SA'FAT
- Mechanical ventilation, air quality and noise level must comply with AI SA'FAT
- All indoor AC units to be located in wet areas to ease the maintenance and avoid damages due to AC drain leakage otherwise client written approval is required.



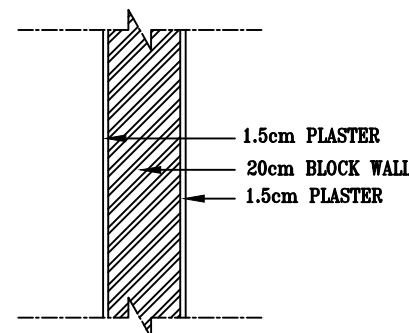
DETAIL (1C) OF ROOF



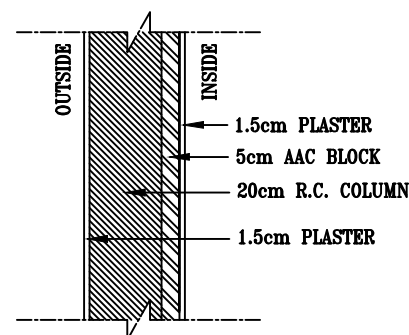
DETAIL (5A) OF GROUND FLOOR



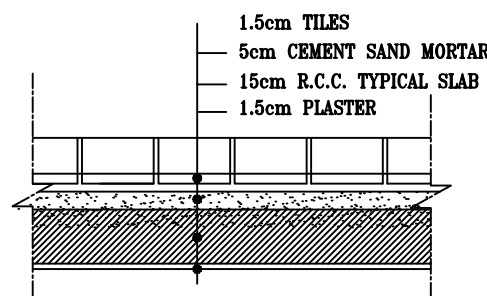
DETAIL (2C) OF DROP BEAMS



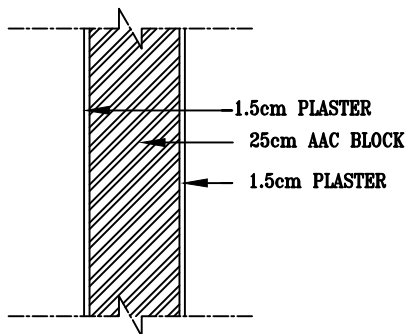
DETAIL (6A) OF PARTITION



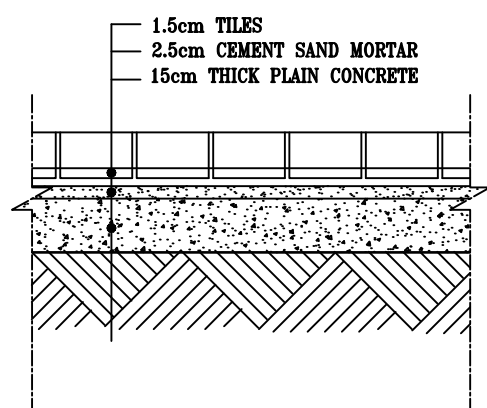
DETAIL (3C) OF EXTERNAL COLUMN



DETAIL (7A) OF TYPICAL FLOOR



DETAIL (4C) OF EXTERNAL WALL



DETAIL (8A) OF NON INSULATED GROUND FLOOR

No.	Date:	Name:	Description:		
4	13/10/2020	AAC BLOCK WORK SYSTEM	Type 4		

THERMAL INSULATION
SYSTEM DETAILS