

## HVAC verification checklist For Villas & Townhouses buildings

Project Information			
<b>Community Name (as per TKS Site Plan)</b>			
<b>Plot No. (as per TKS Site Plan)</b>		<b>Project ID</b>	<b>P-</b>

Checklist for HVAC verification	Yes	No	Remarks
<b>General Documents</b>			
1			MEP Consultant License *
2			Project Brief Report

Technical Reviewing Checklist, as per Dubai Building Code Guidelines			
3	HVAC layout and schematic included the design parameters /calculations as per ASHRAE Standard and DBC.		
4	Summary of thermal load calculations as per the latest version by DM, in line with DBC and Thermal load Calculations by HAP program or equal approval (Input / output data in pdf)		
5	Glazed Elements – Fenestration performance Requirements, (according to the latest version of the DM, in line with the DBC by complying with the parameters listed in the element method, if not, in this case, the consultant shall achieve energy savings of the proposed building equal to or less of the annual energy consumption of the reference building using the performance method. (DBC - Part K, Section K.7)		
6	Thermal Transmittance (U-Value) calculations according to the latest DM version, in line with DBC and related circulars issued by DM.		
7	Fresh air parameters/ Ventilation calculations in line with DCB and ASHRAE. (DBC - Part K, Section K.10.)		



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8	Thermal Insulation system details to determine the electric load limitation according to the latest DM version, in line with DBC. (Stamped and signed by the main Consultant).			

### Abbreviations:

DBC: Dubai Building Code

D.M.: Dubai Municipality

ASHRAE: American Society of Heating, Refrigeration & Air Conditioning Engineers

### Note:

- All Drawings and required documents in PDF format should be provided within title block and to be stamped and signed by the main consultant.
- (\* ) Business license of the Main Consultant sufficient if it has MEP staff, otherwise MEP trade license is mandatory required.

### Declaration

- We hereby confirm that all above technical aspects have been properly checked in compliance Dubai Building Code as well as all related local & International standards. Complete coordination has been insured between all submitted displays and we are fully responsible for incompliance.
- If any delay occurs due to incorrect information provided by us in the submitted checklist, we hold ourselves solely responsible for the delay.
- We are liable for any legal obligations which may occur due to invalid / tampered documents being submitted along with this application.
- We, the (Consultant) office/firm, responsible for the design and supervision of the project specified above, undertake to follow and comply with International Standards (ASHRAE) and Dubai Building Code.
- We the (Consultant) office/firm hereby commit to meeting the full requirements of the DBC regulations for insulation, glazing and thermal components and all insulation used in the wall sections should be certified by DCL (Dubai Central Lab) and full compliance with the latest relevant circular by D.M., and we accept that a Building Completion will not be issued until full evidence of compliance is demonstrated to TRAKHEES.

Date

Authorized Engineer Name & Signature