

SUBMISSION TEMPLATE

IEQ – 2 THERMAL COMFORT

Project Name: _____

Project Number: GS- _____

Points available: **2**Points claimed: _____

Please indicate which Conformance route has been selected:-

Compliance Route		
	Compliance Path 1	Modelling
	Compliance Path 2	Deemed-to-Satisfy (DTS)

<See next page for Compliance Path 1>

Compliance Path 1: Modelling

Please select one of the following options below in order to satisfy this credit:-

1. Alternative 1 : Mechanically, mixed mode and naturally ventilated
2. Alternative 2 : Naturally ventilated

Alternative 1:

For mechanically, mixed mode and naturally ventilated spaces:-

I confirm that for 98% of occupied hours, the predicted mean vote (PMV) is within the following limits:-

- _____ and _____ [insert PMV levels]

I confirm that I have attached supporting documents that support these claims

Points available: 2

☐ I CONFIRM

Alternative 2:

*Alternative for **naturally ventilated** spaces:-*

I confirm that for 98% of occupied hours, the internal operative temperatures are within the ASHRAE Standard 55-2044 acceptability limits:-

- _____% acceptability limit

I confirm that I have attached supporting documents that support these claims

Points available: 2

☐ I CONFIRM

Compliance Path 2: Deemed-to-Satisfy (DTS)

Seating

I confirm that there is no seating provided within two meters of the external façade.

[I confirm that I have attached supporting documents that support these claims](#)

Points available: 1



I CONFIRM

Additional point is being claimed

Localised Control

I confirm that occupants have localised control of either air velocity or temperature.

[I confirm that I have attached supporting documents that support these claims](#)

Points available: 1



I CONFIRM

Supporting Attachments:

1. Attach a copy of the **Thermal Comfort Report** in accordance with the documentation requirements outlined in the credit (see checklist below)
2. Attach **As Built Drawings** which are marked up to demonstrate the criteria outlined in documentation requirements of this credit (see checklist below)

Thermal Comfort Report

Please confirm that all items below are covered in the Short Report

YES/NO

Describing the HVAC system (where applicable) and passive design strategies used to achieve thermal comfort;

Confirming which thermal comfort methodology has been used (i.e. ASHRAE 55-2004 Acceptability Limits or ISO7730 PMV values), with justification for the selection based on the Credit Criteria;

Describing the software package used for determining thermal comfort levels;

Describing the weather data used and its source, demonstrating that it complies with the weather data requirements of the Additional Guidance;

Providing marked-up plan drawings clearly showing the zones modeled for thermal

comfort and that no perimeter zone exceeds 4m in depth;	
Providing a tabulated summary of all zones modelled, indicating the area of each and confirming all of the UA has been included in the analysis	
Confirming the occupancy schedule and total number of hours assessed for thermal comfort;	
Confirming that all modelling inputs are in exact accordance with the modelling presented in Ene-1 Greenhouse Gas Emissions	
Additionally where ASHRAE 55-2004 Acceptability Limits methodology used:	YES/NO
Confirming all spaces assessed are provided with openable windows, and not provided with mechanical cooling systems;	
Providing a table of the mean monthly outdoor air temperatures and resulting acceptability range;	
Providing a summary table of all zones assessed for thermal comfort and the hours below, within and above the Acceptability Limits of operative temperatures, clearly demonstrating compliance with the Credit Criteria.	

Additionally where PMV ISO7730 methodology used:	YES/NO
Confirming that the CLO and MET values used are in accordance with the Additional Guidance;	
Demonstrating that the air velocity value selected is justified for the actual system design.	
Providing a summary table of all zones assessed for thermal comfort and the hours below, within and above the stipulated PMV levels, clearly demonstrating compliance with the Credit Criteria.	

Checklist – As Built Drawings	
Please confirm that all items below are clearly demonstrated in the As Built drawings attached:-	YES/NO
Plans marked up to indicate all zones assessed for thermal comfort;	
Façade, roof and, wherever relevant, section drawings showing the materials in the design; and	
For naturally ventilated spaces, indicating and dimensioning all ventilation openings, inlets and outlets.	

Discussion: Insert any issues you would like to highlight and clarify to the Assessment Panel.

Author Details:

[Name]

[Position]

[Contact Details]

[Date]