

Part 4 Indoor Environmental Quality

NDC 4-3 Thermal Comfort & Noise Level

Actual Assessment Submission ☐Site Verification Submission ☐

Criteria	Credit Available	Credit Claimed
To comply with the supply air temperature and Relative Humidity	1	
All area designed to achieve ambient internal noised as specified		
<ul style="list-style-type: none"> 55db (6am -10pm) L_{Aeq} 45db (6am -10pm) L_{Aeq} 	1	

Strategies:

Documentary Evidences:

Order of documents to be submitted accordingly and clearly labeled.

Actual Assessment		Submitter	Assessor								
(a) To ensure consistent indoor conditions for thermal comfort											
1.	Extracts of the tender specification showing the requirement to design the air-conditioning systems which would provide consistent indoor conditions for thermal comfort.	<input type="checkbox"/>	<input type="checkbox"/>								
2.	Design brief of the air-conditioning system highlighted room temperature and humidity requirement	<input type="checkbox"/>	<input type="checkbox"/>								
(b) Noise level											
1.	Extracts of the tender specification showing the requirement to design the occupied space with partitions meeting the required STC ratings as per table below:	<input type="checkbox"/>	<input type="checkbox"/>								
<table><tr><th>Location</th><th>STC rating of partitions</th></tr><tr><td>Between General Office Space</td><td>40 - 50</td></tr><tr><td>Hotel Rooms, Classrooms, Lecture Theaters, Meeting Rooms, Conference Rooms and spaces where confidential speech is required</td><td>50 - 60</td></tr><tr><td>Between Mechanical / Equipment spaces and occupied spaces</td><td>50 - 60</td></tr></table>		Location	STC rating of partitions	Between General Office Space	40 - 50	Hotel Rooms, Classrooms, Lecture Theaters, Meeting Rooms, Conference Rooms and spaces where confidential speech is required	50 - 60	Between Mechanical / Equipment spaces and occupied spaces	50 - 60		
Location	STC rating of partitions										
Between General Office Space	40 - 50										
Hotel Rooms, Classrooms, Lecture Theaters, Meeting Rooms, Conference Rooms and spaces where confidential speech is required	50 - 60										
Between Mechanical / Equipment spaces and occupied spaces	50 - 60										
2.	Architectural & structural plan layout, elevation and sectional plans showing types of wall system used, dimensions and size of all building and structural elements with STC ratings.	<input type="checkbox"/>	<input type="checkbox"/>								
OR											
3.	A report of detail analysis and recommendations from acoustic consultant (if applicable).	<input type="checkbox"/>	<input type="checkbox"/>								

Site Verification	Submitter	Assessor
<i>(a) To ensure consistent indoor conditions for thermal comfort</i>		
1. Commissioning report of indoor dry-bulb temperature and relative humidity achieved consistent indoor thermal comfort for at least 48 hours complied with the committed design specifications.	<input type="checkbox"/>	<input type="checkbox"/>
3. Photographic evidence during testing or commissioning.	<input type="checkbox"/>	<input type="checkbox"/>
<i>(b) Noise level</i>		
1. As-built architectural & structural plan layout, elevation and sectional plans showing types of wall system used, dimensions and size of all building and structural elements.	<input type="checkbox"/>	<input type="checkbox"/>
2. As-built layout with walls and floors noise attenuation properties and STC values to be clearly marked.	<input type="checkbox"/>	<input type="checkbox"/>
3. Commissioning report of noise level (if applicable).	<input type="checkbox"/>	<input type="checkbox"/>
4. Photographic evidences.	<input type="checkbox"/>	<input type="checkbox"/>
5. Describe any deviations or changes to the AA submission.	<input type="checkbox"/>	<input type="checkbox"/>