



IGBC Green Homes Ver 2.0

Addendum 3

November 2019

- ❖ **Applicable to all registered projects under IGBC Green Homes Rating System – Ver 2.0**
- ❖ **Precertified/ Provisionally certified projects can show compliance as per the Third Addendum as and when they come for Certification.**



IGBC Green Homes Rating System - Version 2.0
Third Addendum – November 2019



| Credit Name | Addendum | | | | | | |
|--|--|---|---|-------|-----|-------|---|
| SSP Credit 2 – Natural Topography or Vegetation Compliance Option: | <p><u>Existing Criteria</u></p> <p>Avoid disturbance to the site by retaining natural topography or vegetation and/ or design vegetated spaces for atleast 15% of the site area. Points are awarded as below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Percentage of Site Area with Natural Topography and/or Vegetated Area</th> <th>Points for Multi-dwelling Residential Units</th> </tr> </thead> <tbody> <tr> <td align="center">≥ 15%</td> <td align="center">2</td> </tr> <tr> <td align="center">≥ 25%</td> <td align="center">4</td> </tr> </tbody> </table> | Percentage of Site Area with Natural Topography and/or Vegetated Area | Points for Multi-dwelling Residential Units | ≥ 15% | 2 | ≥ 25% | 4 |
| | Percentage of Site Area with Natural Topography and/or Vegetated Area | Points for Multi-dwelling Residential Units | | | | | |
| | ≥ 15% | 2 | | | | | |
| | ≥ 25% | 4 | | | | | |
| <p><u>New Criteria</u></p> <p>Case A: Vegetation on Ground surface</p> <p>Retain Natural topography* or Vegetation or Develop Vegetated green spaces only on ground for atleast 15% of the site area. Points are awarded as below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #d9ead3;">Percentage of Site Area with Natural Topography and/or Vegetated Area</th> <th style="background-color: #d9ead3;">Points for Multi-dwelling Residential Units</th> </tr> </thead> <tbody> <tr> <td align="center">15%</td> <td align="center">2</td> </tr> <tr> <td align="center">25%</td> <td align="center">4</td> </tr> </tbody> </table> <p align="center">Or</p> | Percentage of Site Area with Natural Topography and/or Vegetated Area | Points for Multi-dwelling Residential Units | 15% | 2 | 25% | 4 | |
| Percentage of Site Area with Natural Topography and/or Vegetated Area | Points for Multi-dwelling Residential Units | | | | | | |
| 15% | 2 | | | | | | |
| 25% | 4 | | | | | | |



IGBC Green Homes Rating System - Version 2.0
Third Addendum – November 2019



| | <p>Case B: Vegetation on Ground & Built structures</p> <p>Projects have option to include vegetation / greenery on ground and built-structures such as podium, roof surfaces, vertical greenery to meet atleast 30% of the site area as compliance. Points are awarded as below:</p> <table border="1" data-bbox="526 456 1883 689"> <thead> <tr> <th>Percentage of Natural Topography and/or Vegetated Area on Ground + Built-Structures</th> <th>Points for Multi-dwelling Residential Units</th> </tr> </thead> <tbody> <tr> <td align="center">30%</td> <td align="center">2</td> </tr> <tr> <td align="center">40%</td> <td align="center">4</td> </tr> </tbody> </table> | Percentage of Natural Topography and/or Vegetated Area on Ground + Built-Structures | Points for Multi-dwelling Residential Units | 30% | 2 | 40% | 4 |
|---|---|---|---|-------|---|-------|---|
| Percentage of Natural Topography and/or Vegetated Area on Ground + Built-Structures | Points for Multi-dwelling Residential Units | | | | | | |
| 30% | 2 | | | | | | |
| 40% | 4 | | | | | | |
| <p>EE Credit 3 - Solar Water Heating System</p> <p>Compliance Option:</p> | <p><u>Existing Criteria</u></p> <p>Provide solar water heating system to meet hot water requirement for domestic purposes. The minimum hot water requirement for domestic purposes should be considered as 20 liters per person per day. Points are awarded as below:</p> <table border="1" data-bbox="526 1046 1883 1315"> <thead> <tr> <th>Hot Water through Solar Water Heating System as a Percentage of Total Hot Water Requirements of the Building(s)</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td align="center">≥ 25%</td> <td align="center">2</td> </tr> <tr> <td align="center">≥ 50%</td> <td align="center">4</td> </tr> </tbody> </table> | Hot Water through Solar Water Heating System as a Percentage of Total Hot Water Requirements of the Building(s) | Points | ≥ 25% | 2 | ≥ 50% | 4 |
| Hot Water through Solar Water Heating System as a Percentage of Total Hot Water Requirements of the Building(s) | Points | | | | | | |
| ≥ 25% | 2 | | | | | | |
| ≥ 50% | 4 | | | | | | |



IGBC Green Homes Rating System - Version 2.0
Third Addendum – November 2019



Credit
Rename:
Alternate
Hotwater
Systems

New Criteria

Provide any one or combination of the below technologies for atleast 25% of hot water requirement:

- ❖ Natural Gas (or) LPG based systems
- ❖ Heat pump with minimum of COP 3.2
- ❖ Solar water heating systems

Points are awarded as below:

| Alternate Hotwater System as a Percentage of Total Hot Water Requirements of the Building(s) | Points |
|---|---------------|
| ≥ 25% | 1 |
| ≥ 50% | 2 |
| ≥ 75% | 3 |
| ≥ 95% | 4 |



IGBC Green Homes Rating System - Version 2.0
Third Addendum – November 2019



Mandatory Requirement 3

Fresh Air Ventilation

Compliance Option:

Existing Criteria

For Naturally Ventilated Spaces:

Provide openable windows or doors to the exteriors in all regularly occupied spaces of each dwelling unit such that the openable area is designed to meet the criteria as outlined in the table below:

Table 6 - Design Criteria for Openable Windows and Doors to the Exteriors

| Space Type | Openable Area as a Percentage of Total Carpet Area |
|---------------|--|
| Living Spaces | 10% |
| Kitchen | 8% |
| Bathrooms* | 4% |

For Air Conditioned Spaces:

Design a ventilation system for air-conditioned spaces, as 5 cfm per person for each air-conditioned space in base case.



New Criteria – Only to meet Mandatory Requirements;

Naturally Ventilated Spaces:

Provide openable windows or doors to the exteriors in all regularly occupied spaces of each dwelling unit such that the openable area is designed to meet the criteria as outlined in the table below:

Case 1: Less than 5 floors

Design Criteria for Openable Windows and Doors to the Exteriors

| Space Type | Openable Area as a Percentage of Total Carpet Area |
|---------------|--|
| Living Spaces | 10% |
| Kitchen | 8% |
| Bathrooms* | 4% |



IGBC Green Homes Rating System - Version 2.0
Third Addendum – November 2019



Case 2: More than 5 floors

Design Criteria for Openable Windows and Doors to the Exteriors

| Space Type | Openable Area as a Percentage of Total Carpet Area |
|---------------|--|
| Living Spaces | 8% |
| Kitchen | 6% |
| Bathrooms* | 4% |

For Air Conditioned Spaces:

Design a ventilation system for air-conditioned spaces, as 5 cfm per person for each air-conditioned space in base case.



IGBC Green Homes Rating System - Version 2.0
Third Addendum – November 2019



Alternative option :

Approach through CFD Analysis:

If a project intends to apply the mandatory or credit requirement through CFD analysis, the guidelines specified in NBC norms Part 8: Building Services (Section 1: Lighting & Ventilation) with 3-6 ACH* could be followed for Living spaces. Hence, 6 ACH can be demonstrated for mandatory requirement.

The submittals must however include modelling data wherein all buildings and contours within 200m radius are modelled, weather file specific to the region with wind data is made available and output files from the software be shared to authenticate the work done.

Note: The Enhanced Fresh Air Ventilation credit thresholds still hold good as per Ver 2.0