

Eco–Niwas Samhita (ENS)

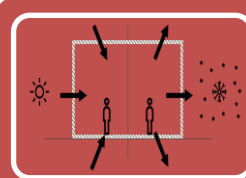
Energy Conservation Building Code for Residential Buildings (ECBC-R)

Part 1: Building Envelope

Webinar Date: - 18th September 2020 (Friday)
Timing: - 11:00 am – 01:00 pm
Venue: - MBS School of Planning and Architecture
 Through Webinar via Cisco Webex
<https://pwc-emeaec.webex.com/pwc-emeaec/onstage/g.php?MTID=e9bef7c55fb798c421eaab5cef77fcc09>

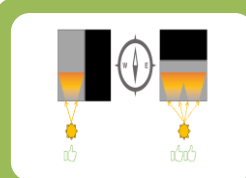
Introduction & Scope of ENS /ECBC - R

- Out of the total electricity consumed in the building sector, about 75% is used in residential buildings. It has increased by more than 4 times in 20 years.
- This code will be applicable to all residential buildings of Punjab built on a plot area of ≥ 500 sqm.
- ENS /ECBC – R (Part I: Building Envelope) has been prepared to set minimum building envelope performance standards to limit heat gains for the state of Punjab. Introduction to baseline calculations for ENS compliance.
- Introduction to BEE Star Labelling of Residential Buildings and how to achieve it.



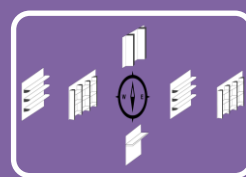
Building Envelope

Building envelope is the outer skin of the building which includes the outside walls, windows, doors, roof, skylights, etc.



Orientation

Orienting the buildings & windows help you achieve naturally lit, ventilated and comfortable spaces



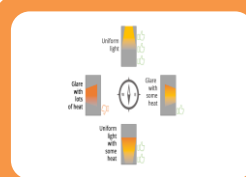
Shading

Shades protect our buildings from direct sunlight and rain. Shades are temporary or permanent structures such as horizontal or vertical projections around the window



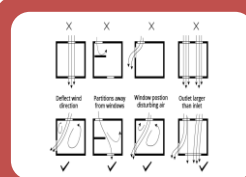
Insulation

Insulation is a bad conductor of heat, i.e. it is difficult for heat to travel through it. It is applied in buildings to regulate temperature inside



Day Lighting

Daylight is essentially sunlight. Daylight has the potential of naturally lighting our spaces during the daytime



Natural Ventilation

The process of replacing air inside building with fresh air from the environment outside through windows and door



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For more information please contact:

Ar. Shiva Prasad Rath, Email: shiva.rath@pwc.com, in_ensdelhi@pwc.com, Phone: +91 9861869538