

OX-IS structural insulation vs OSB

CONSTRUCTION CRITERIA

Exceeds 2018 IRC Building Codes for Shear Strength (including hurricane zones)
Utilizes Existing Home Plans & Subcontractors
Requires House Wrap (OX-IS has vapor/moisture barrier on both sides)
Requires Extra Trip Around Structure to Apply House Wrap
Reduced Material Weight (OX-IS is roughly 1/3 the weight of OSB)
Reduced Construction Labor Needed (OX-IS typically reduces 1-2 days)
Superior for Off-Site Wall Panel Framing (OX-IS has multiple benefits)

OSB	1" OX-IS	1/2" OX-IS
YES	YES	YES
YES	YES	YES
YES	NO	NO
YES	NO	NO
NO	YES	YES
NO	YES	YES
NO	YES	YES

ENERGY CRITERIA

Added Estimated R-Value of Wall Sheathing Material
Percentage Increase of Sheathing R-Value vs OSB
Reduces ACH50 Blower Door Tests by 15-20% (Some homes greatly exceed this number.)
Lowers the HERS® Scores
Sheathing Material Reduces Energy Use
Qualifies for Department of Energy (DOE) Passive Home Energy Building
Reduces Thermal Bridging (OSB actually acts as conduit for thermal loss)
Reduces Wall Cavity Temperature Differences (reduced moisture in walls)
Reduces Heating/Cooling Costs (OX-IS typically reduces by 20% - 40%)
Requires Downsized HVAC Systems (OX-IS typically saves \$200-\$350)
Meets 2018 Prescriptive Energy Codes (check zone for required R Value)*
Contributes Energy Savings to Meet 2018 Performance Path Energy Codes
Substantially Reduces Number of Solar Panels Needed to Power Home
Product is "Green" and Uses over 70% Post Consumer Recycled Materials
100% of the Product is Made In The USA (some OSB is imported)

R-0.5	R-6	R-3
0%	1,100%	500%
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES

HOMEOWNER BENEFITS (Sources: U.S. DOE, EPA, HUD & HERS® Ratings)

Provides A Healthier Home (DOE & EPA)
Provides A More Comfortable Home (DOE)
Provides A More Durable Home (DOE) (ISO protects frame from elements)
Provides A Quieter Home (DOE) (continuous ISO is a sound barrier)
Documented Homeowner Money Saved Every Month/Year (HERS® report)
Requires Higher Appraised Value (HUD) (usually 2% to 5%)
Higher Re-Sale Values (DOE)
Shorter Sales Time (DOE)

NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES
NO	YES	YES

* Some states, counties or municipalities may require more continuous insulation now or in the future.

DOE is US Department of Energy www.doe.gov

EPA is US Environmental Protection Agency www.epa.gov

HUD is US Housing and Urban Development www.hud.gov

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A Few Facts About Uninsulated Sheathing Like OSB:

- OSB does nothing to reduce home energy use. (RESNET HERS® reports)
- OSB actually promotes and accelerates home energy loss due to thermal bridging. (DOE)
- OSB homes cost more to own than homes with OX-IS/continuous insulation. (DOE)
- OSB homes are worth less than homes built with OX-IS/continuous insulation. (HUD Green Appraisal Requirements)
- OSB/uninsulated sheathing is a primary culprit for wall cavity moisture production. (DOE)
- OSB homes require larger, more expensive heating and cooling (HVAC) systems. (DOE)