

# 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)

	<b>OSB</b>	<b>1" OX-IS</b>	<b>1/2" OX-IS</b>
Exceeds 2018 IRC Building Codes for Shear Strength (including hurricane zones)	<b>YES</b>	<b>YES</b>	<b>YES</b>
Utilizes Existing Home Plans & Subcontractors	<b>YES</b>	<b>YES</b>	<b>YES</b>
Requires House Wrap (OX-IS has vapor/moisture barrier on both sides)	<b>YES</b>	<b>NO</b>	<b>NO</b>
Requires Extra Trip Around Structure to Apply House Wrap	<b>YES</b>	<b>NO</b>	<b>NO</b>
Reduced Material Weight (OX-IS is roughly 1/3 the weight of OSB)	<b>NO</b>	<b>YES</b>	<b>YES</b>
Reduced Construction Labor Needed (OX-IS typically reduces 1-2 days)	<b>NO</b>	<b>YES</b>	<b>YES</b>
Superior for Off-Site Wall Panel Framing (OX-IS has multiple benefits)	<b>NO</b>	<b>YES</b>	<b>YES</b>

## 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)

<b>R-0.5</b>	<b>R-6</b>	<b>R-3</b>
<b>0%</b>	<b>1,100%</b>	<b>500%</b>
<b>NO</b>	<b>YES</b>	<b>YES</b>

## 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)

<b>NO</b>	<b>YES</b>	<b>YES</b>

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

DOE is US Department of Energy [www.doe.gov](http://www.doe.gov)

EPA is US Environmental Protection Agency [www.epa.gov](http://www.epa.gov)

HUD is US Housing and Urban Development [www.hud.gov](http://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)