

**Strong Energy Efficiency**

- Reduce conductive, convective and radiant heat transfer
- Best-in-class long term R-value performance
- Continuous insulation to reduce heat loss for framed construction
- ISO RED MAX provides thermal, air and vapor control layers to help create a high performance building envelope

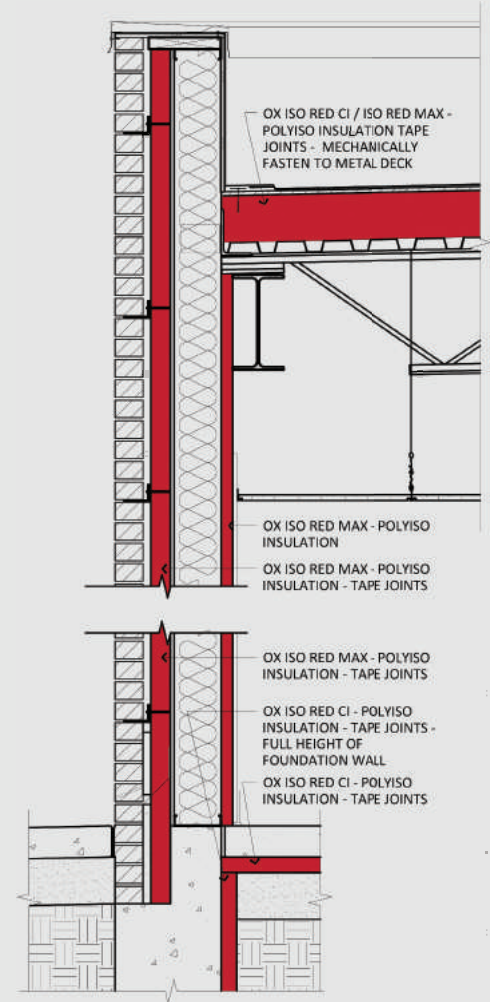
**Strong Water Resistance**

- Closed cell foams not only provide higher R-values, but superior moisture resistance.
- Water-resistant facers provide first-line moisture protection
- Resilient facer technology with closed cell foam core allows for a code compliant, weather-resistant barrier
- Closed cell polyiso foam provides superior fastener seal-ability that building wraps do not
- 25 psi compressive strength

**Strong Sustainability**

- Manufacture of ISO RED results in significantly lower Global Warming Potential (GWP) than other Polystyrene insulation.
- Can lower the consumption of fossil fuels

**Typical Application**



**FASTENER METHODS**

Application	Stud Spacing	Attachment Method	Fastener Spacing <sup>(1)</sup>
Wood Framing	16" or 24"	Capped nails, staples or roofing nails (-1" framing embedment)	12" perimeter 12" field Fastener heads flush with surface
Metal framing	16" or 24"	Corrosion-resistant self-tapping screws with 1" diameter cap or washer. (1/4" framing embedment)	12" perimeter 12" field Fastener heads flush with surface
Interior Masonry or concrete	N/A	Suitable construction adhesive or masonry fasteners with 1" diameter cap or washer or combination of adhesive & mechanical fasteners. (-1" embedment into substrate)	Adhesive beads spaced 16" horizontally or full perimeter. Mechanical fasteners 12" perimeter and 12" field spaced 16" horizontally or combination of adhesive and minimum fasteners to hold until adhesive sets
Exterior Masonry or concrete below grade	N/A	Granular water-draining fill	Only as required to ensure intimate contact to masonry surface or water proofed surface

<sup>1)</sup> Refer to project engineer for potential fastener spacing variation



Physical Properties of ISO RED MAX Polyiso Sheathings								
ASTM Method	D1621	C209	E96 <sup>(1)</sup>	D2126	D2126		E84 <sup>(3)</sup>	
	Minimum Comprehensive Strength, psi	Water Absorption	Water Vapor Transmission, perms	Dimensional Stability % Change	Nominal Density, pcf	Service Temperature Range, F	Flame Spread	Smoke Developed <sup>(2)</sup>
ISO RED MAX Type 1 class 2	25	<0.06	<0.3	<0.2	2.0	-50 to +250	≤25	≤450

(1) -40 and 200 degrees F, ambient RH, length & width (2) Fire Performance/Surface Burn Characteristics (3) Proprietary polyiso rigid board facers on both sides

Thermal R-Values <sup>(1)</sup>									
"R" means resistance to heat flow. The higher the R-value, the greater the insulating value.									
Thickness	0.50	0.75	1.00	1.55	2.00	2.5	3.0	3.5	4.0
Thermal R-Value	3.3	5.0	6.5	10.0	13.0	16.0	19.0	22.1	25.2
System R-Value <sup>(2)</sup>	6.1	7.8	9.3	13.6	15.8	18.8	21.8	25.3	28.0

(1) Thermal values are determined by using ASTM C518 test method at 75 degrees mean temperature.

(2) System R-value refers to additional effective R-value possible due to emissivity performance of reflective surface. According ASHRAE, the reflective foil facing of ISO RED MAX and ISO RED CI qualifies to add R-value to a properly detailed assembly, which includes an adjacent, 3/4" dead air space.

Poly ISO Grades & Available Facers			
Grade	Front Facer	Back Facer	Seam Finish Options
ISO RED MAX	0.9 mil foil	0.9 mil foil	Venture (1520 CW) aluminum foil sheathing tape
ISO RED MAX WF	1.25 mil white embossed	0.9 mil silver	Venture (1558 HT) White Vinyl trim enclosures
ISO RED MAX LD	1.25 mil white embossed	1.25 mil silver embossed	Venture (1558 HT) White Vinyl trim enclosures
ISO RED MAX HD	3.4 mil white embossed	1.25 mil silver embossed	Venture (1558 HT) White Vinyl trim enclosures
ISO RED MAX STRONG-R	0.9 mil foil	1/8" laminated fibrous board	Venture (1520 CW) aluminum foil sheathing tape

For water-resistive barrier installations, tape all seams with minimum 2 1/2" wide construction tape Venture (1585-P2) or equivalent. 4" wide self-adhered flashing tape meeting AAMA 711 (FortiFlash Butyl or equivalent) with release liner may be required for effectively taping of inside and outside corners.

Flash all openings and penetrations with self-adhered flashing tape meeting AAMA 711 (FortiFlash Butyl or equivalent). For installation instructions see: <http://www.drjbestpractices.org/installation-guide/2015/jun/installation-instructions-windows-over-fpis>

### Storage

Normal care should be taken to avoid excessive moisture exposure (soaking) to unpackaged product. Maintain packaging protection until installation. Once removed from the protective bundle covering and installed on the wall frame, ISO RED can remain installed exposed to elements.

### Availability

Standard width 48". Standard lengths 96", 108", 120", custom lengths available.

Contact your local OX rep or building supply partner for availability and pricing.

Visit [www.oxindustries.com](http://www.oxindustries.com) or call 800-345-8881.

NOTICE: Because use conditions and applicable laws may differ from one location to another and may change over time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. OX assumes no obligation or liability for the information in this document. The product shown in this literature may not be available for sale and/or available in all geographies where OX is represented. The claims made may not have been approved for use in all countries or regions. NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN WARRANTIES SPECIFICALLY PROVIDED BY OX. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

Warning: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.

CAUTION: This product is combustible and shall only be used as specified by the local building code with respect to flame spread classification and to the use of a suitable thermal barrier.