



LCi™ Laminated Continuous Wall Insulation

The combination of polymeric film facers and graphite enhanced expanded polystyrene (GPS) makes LCI GX the perfect solution for insulated sheathing in new construction applications. LCI GX has an insulating value of R5 in a nominal 1" thick panel and is suitable for the following applications:

- Installed over wood sheathing on new construction projects
- Installation direct-to-stud, provided lateral loads are accommodated through other means
- Installed over gypsum in Types I-IV buildings for NFPA285 approved assemblies



EPSX® TECHNOLOGY ADVANTAGE



Moisture
Resistant



Stable
R-value



Environmentally
Friendly



Limited Lifetime
Warranty

Standard features include:

- Dual layer of protection, with a durable polymer film facer on both sides
- LCI GX is available in the following R-values: R3, 5, 7.5, 10 and 15

Typical Tested Properties of R5 LCI GX	ASTM Test Method	GX SERIES		
		LCi 10 GX	LCi 15 GX	LCi 25 GX
Compressive Strength (minimum psi) at 10% Deformation	D1621	10	15	25
Product R-value at 75°F mean temp ¹	C518	5.0	5.0	5.0
Product R-value at 45°F mean temp ¹	C518	5.1	5.1	5.1
Product R-value at 25°F mean temp ¹	C518	5.2	5.2	5.2
Compressive Strength (minimum psi) at 1% Deformation	D1621	4	6	11
Flexural Strength, foam core only (minimum psi) ² Facers add 10-15 psi flexural resistance	C203	25	35	55
Vapor Permeance at R5 thickness (perms)	E96 Desiccant Method	<0.3 perm (Class II) all thicknesses*		
Water Absorption % by volume, maximum after 24 hr immersion	C272	1.1	1.1	1.1
Surface Burning- Flame Spread and Smoke Developed	E84	Flame Spread 20, Smoke Developed 400 [meets code]		
Maximum Use Temperature	-	Short Term (10-15 minutes) 180°F, Long term 165°F		

¹ All R5 ThermalStar LCI GX grades (10, 15, 20, 25 psi) are manufactured at 1.06"

² 2015 IRC deems 15 psi and above EPS foam sheathing at 1" to meet wind pressure resistance min of 115 mph

* Refer to 2015 IBC Model Code, table 1403.5.2 climate zone and wall configuration, for recommended building practice in your area, when applicable.



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Advantages of LCi GX:

NO HOUSE WRAP NEEDED

Polymeric film facers are laminated to both sides of LCi GX which are approved for water resistant barrier (WRB) rated assemblies when taped, and eliminate the need for house wrap wrb.

STABLE R-VALUE

While XPS products degrade from initial R5 as gases escape, LCi GX's thermal performance is stable over time, assuring R-value meets design requirements over the life of the structure.

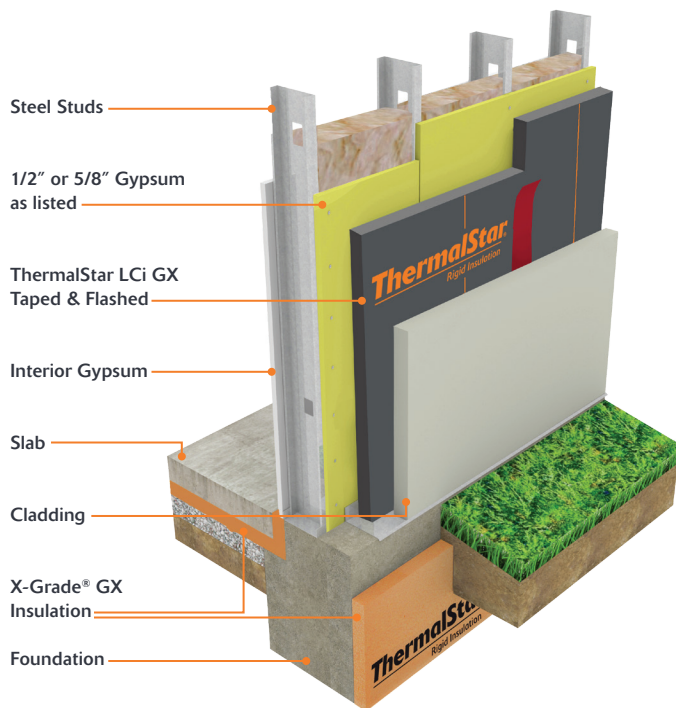
DURABILITY

The polymeric film facers make LCi GX more durable against typical job site abuse such as transport, storage and installation. The polymer facers increase the flexural resistance for wind pressure resistance when applied direct to stud.

ENVIRONMENTALLY FRIENDLY:

XPS has harmful HCFC gases in their insulating cells, and thus an extremely high global warming potential (GWP), whereas LCi GX cells simply contain air.*

Typical NFPA285 Approved Assembly



Specify ThermalStar LCi GX on Your Next Project!



INSTALLATION AND HANDLING

LCi GX can be handled much the same as any other foam or wood sheathing, using similar tools or a simple utility knife to customize panels to fit the application. This product must be protected from direct sunlight during storage with an opaque covering.

SAFETY

SDS for this product is available at AtlasEPS.com. Dust generated from sanding or cutting LCi GX should be avoided using a dust mask. LCi GX insulation is combustible and the product should be protected from ignition sources such as open flames or welder's torch. Applications not specifically listed in UL ER16529.1 require permanent separation of LCi GX insulation from the interior of the building by a thermal barrier such as drywall or concrete for fire safety.

WARRANTY

LCi GX insulation is backed by a limited lifetime warranty for physical and thermal performance.

CODE COMPLIANCE

ThermalStar LCi GX insulation complies with the model building codes when properly installed:

- Surface Burning – UL BRYX.R16529
- Physical Properties – UL QORW.R16529
- CAN/ULC S102.2, S701 – ULC BOZCC R16529
- International Residential Code (IRC) – UL16529-1
- International Building Code (IBC) – UL16529-1
- ASTM C578 – See product marketing for Type
- Crawl Space – per section R316.4.5 & R316.6 of 2015 IRC
- Cal Std Reg #CA472
- NFPA285 Approved – ULEX R16529-1
- HUD section 3280.504 - vapor permeance when perforated

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*US EPA has mandated in July 2015 that XPS cease using high GWP gasses by December 2020.