



INNOVATIONS FOR LIVING®

Architectural Metal Insulated Roof Systems

Section Overview

Architectural Metal Roofing Systems

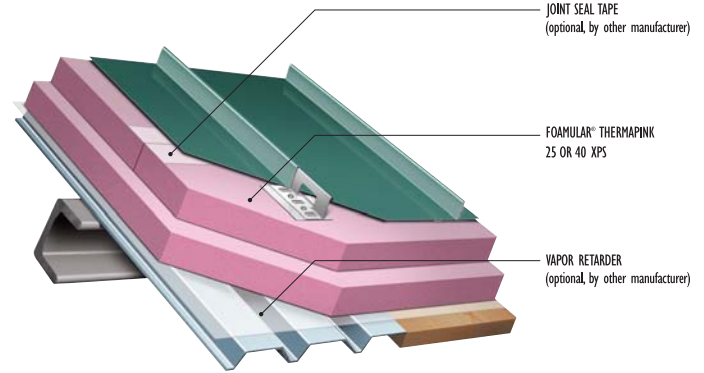
The exceptional performance of architectural metal roofing makes it one of the most specified products in commercial roofing. Architectural metal roofing systems are energy efficient with various levels of solar reflectance and emittance depending on the heating or cooling needs of a given climate. Metal roofs are recyclable, lightweight and easy to install. They provide protection against extreme weather conditions. With strong corrosion resistance they offer long lasting durability, all of which equals sustainability. Metal roofs are aesthetically pleasing, versatile and cost efficient throughout their life cycle. They come in many colors and seam profiles including standing seam, curved, exposed fastener, concealed fastener, suitable for many applications including new and retrofit projects, and any type of commercial or residential projects

FOAMULAR® THERMAPINK® Extruded Polystyrene (XPS) Rigid Insulation

FOAMULAR® THERMAPINK® XPS insulation is strong, lightweight and easily cut making it a perfect insulation choice for architectural metal roofing systems. THERMAPINK® 25 insulation has a 25 psi compressive strength that is strong enough to hold the retention clips used to secure the metal roofing system. Bearing plates under the clips seat into the surface of the insulation as they are tightened, and no adhered facer means no extra labor needed to trim the surface to achieve proper seating.

THERMAPINK® XPS insulation has high resistance to water absorption, and a stable long-term R value of 5 per inch. Since FOAMULAR® THERMAPINK® XPS insulation is highly water resistant it is easier to stage on job sites than products like polyisocyanurate and EPS that are more moisture sensitive and subject to restrictive storage and warranty rules. Also, with moderate perm ratings, and high, long-lasting R-value, THERMAPINK® insulation layers with sealed joints help limit the formation of condensation under metal roofing and help drain it away when it does form. Sealed joints and high water resistance also makes THERMAPINK® XPS insulation a temporary water shed while the job is awaiting final installation of the metal roof covering.

Architectural Metal Roofing System



XPS Direct-to-Deck Installation

FOAMULAR® THERMAPINK® XPS insulation in architectural metal roofing systems is approved for direct to deck installation, meaning no gypsum board thermal barrier layer is required between the structural steel roof deck and the insulation. See UL Roof Deck Construction No. 457, tested in accordance with ANSI/UL Standard 1256. (Not applicable when hourly ratings, ASTM E 119, are needed for the roof assembly) Also, in architectural metal roofing THERMAPINK® XPS insulation is Class A fire rated, tested in accordance with ASTM E 108.

Sustainability

Owens Corning is committed to driving sustainability through greening our operations, greening our products and accelerating energy efficiency in the built environment. Owens Corning Foamular® XPS products, are GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children and Schools CertifiedSM. FOAMULAR® XPS is also third party certified, to contain a minimum 20 percent recycled polystyrene content and is produced with a zero ozone depletion blowing agent formulation. FOAMULAR® XPS insulation products contribute to achieving credits in multiple LEED® categories including energy efficiency and recycled material content and carry a lifetime limited warranty¹ on all ASTM C578 physical properties for true long lasting value.

Notes

1. See actual warranty for complete details, limitations and requirements.



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