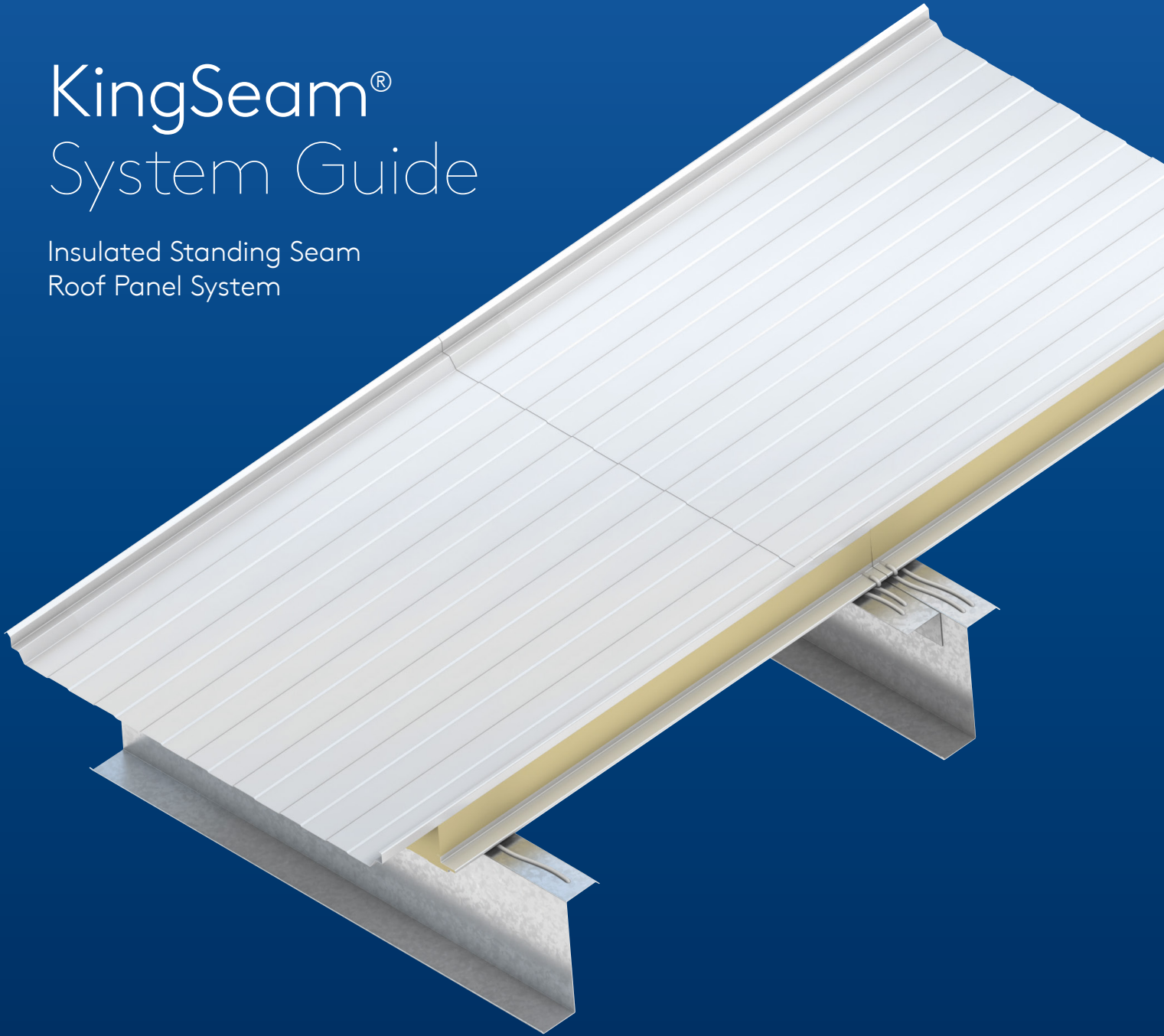


Insulated Panel Systems
North America

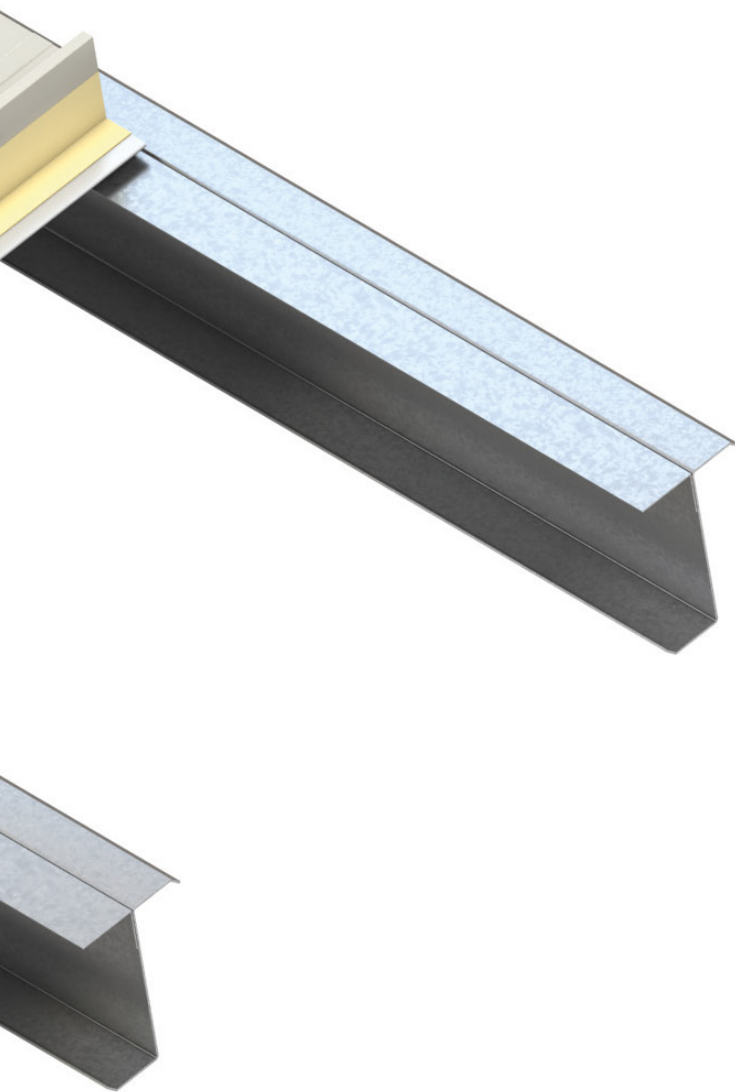


KingSeam® System Guide

Insulated Standing Seam
Roof Panel System







About Kingspan KingSeam

Kingspan is a global leader in the innovative design and manufacturing of sustainable high performance insulated metal roof and wall panel systems. Kingspan's fast track building envelope systems are key to achieving affordable, low energy, low carbon, and net-zero energy buildings.

KingSeam insulated metal roof systems provide high levels of thermal (R-value) and airtightness performance throughout the service life of the building, contributing towards achieving net-zero energy building targets and LEED® project certification.

KingSeam's one step installation method is suitable for new and retrofit applications across commercial, industrial and cold storage market sectors.

Performance Benefits

The easiest and most cost-effective route to reducing building energy demand and costs is to utilize the high thermal performance and superior airtightness benefits of KingSeam standing seam roof systems.

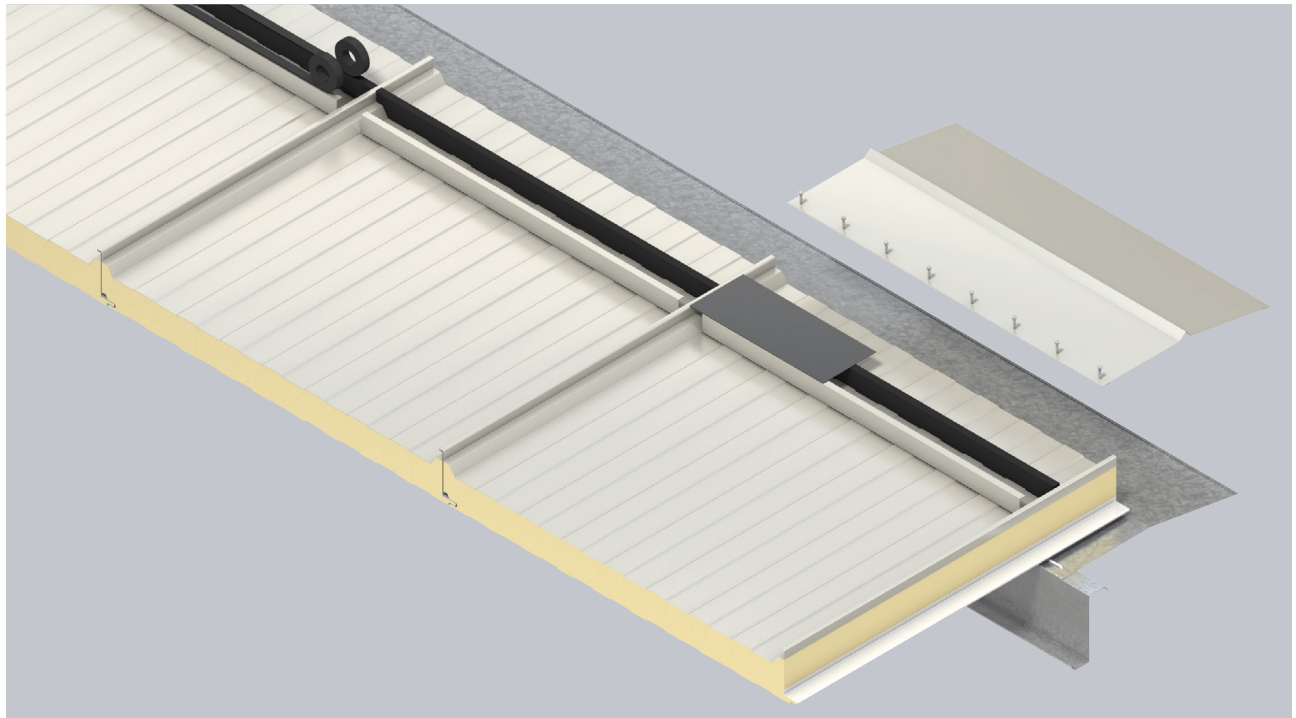
Energy Cost Savings

KingSeam's thermal performance of high R-values, superior airtightness and low thermal bridging can result in energy savings over standard insulation systems.

High R-Value

KingSeam's insulating core provides superior thermal performance with tested R-values of up to 48.6.

Most importantly, the insulation is exterior of the building structure. This feature provides the best possible thermal envelope by reducing thermal bridging typical of cavity insulation systems. In addition, the panels feature excellent foam-to-foam contact, which provides an unbroken thermal shield against heat transfer.



Superior Airtightness and Weathertightness

One of the biggest sources of building heat loss (or heat gain) is due to air leakage i.e. – ‘leaky buildings’. KingSeam panels are rigorously tested to ensure that they remain both air and weathertight over the life of the building.

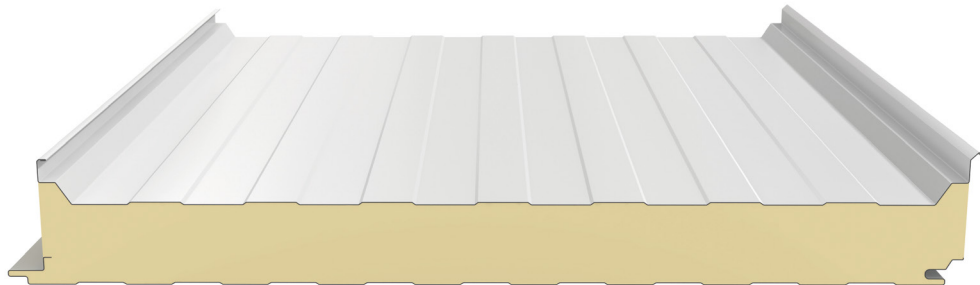
The standing seam design along with the hidden fastener clip assembly means KingSeam is ideal for low slope applications (>0.25" in 12" for single panel runs, >0.5" in 12" where endlaps are required).

The standing seam joint is mechanically seamed using a power seamer for the KingSeam roof panel.

Kingspan offers an optional Manufacturers Weathertight Warranty program for KingSeam.
Contact Kingspan for more details.

Carbon Emission Reduction

KingSeam is a superior thermal and airtight system that reduces a building's operational energy demands (primarily heating and cooling), and as a result, it's carbon footprint.



Performance Benefits

Single-component System

KingSeam insulated standing seam roof system offers design flexibility and aesthetics combined with high R-values and unparalleled service life thermal performance – all 'built-in' to a single off-site, factory assembled insulated panel.

Hand Crimper

This tool incorporates an over-bend feature to roll the top standing seam to a perpendicular orientation. The hand tool is also used to seam the panels at the end of the run for a distance of approximately 12" in order to be able to start the electric seaming tool.

D.I. Electric Seamer

The D.I. Electric Seamer is a precision manufactured machine designed to provide uniform single locked seams for the KingSeam Standing Seam Roof Panels.

Please contact D.I. Roof Seamers directly for rental information.

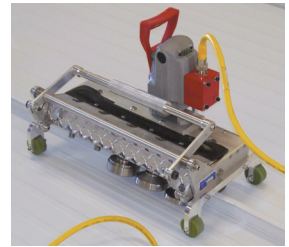
D.I. Roof Seamers

915 Highway 45 Corinth, MS 38834

1-888-343-0456

Office: (662) 287-6626

www.kingspan.diroofseamers.com



Design Flexibility, Aesthetic Appeal

KingSeam's joint profile and integral batten provide an attractive linear accent to any roofing application. In addition, the KingSeam roof panel does not require the use of underlayments, and may be applied directly over open purlins or decking.

The standing seam concept allows the system to be utilized on low roof slopes with cover widths of 40".

A wide range of color and finish options are available to enhance the aesthetic appeal of the roof.



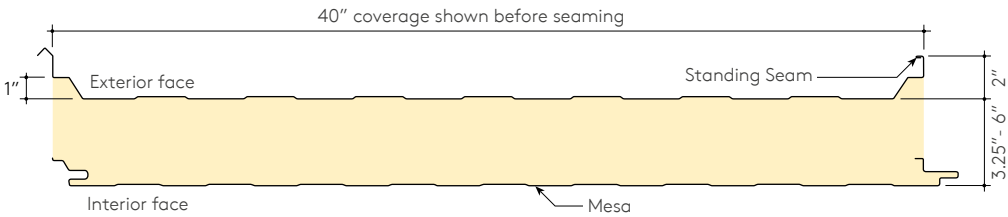
Product Data

Product Specifications

Profile	Exterior: Mesa with Trapezoidal Ribs Interior: Mesa
Embossing	Exterior: Non-embossed Interior: Stucco or non-embossed
Gauge	Exterior: 26, 24, 22 ga Interior: 26, 24, 22 ga
Width	40"
Thickness	3.25", 4", 5", 6"
Length	8' - 50' (please contact your Kingspan Regional Sales Manager or Kingspan Technical Services for detailed limitations on specific lengths)
Post fabrication	Cutbacks
R-value	≈ 7.1 per inch per ASTM C518 @ 75°F mean temperature ≈ 8.1 per inch per ASTM C518 @ 35°F mean temperature



Kingspan's
single component
systems
are available in
a wide range
of finish
options



Performance Testing and Approvals

Kingspan insulated panels meet specific building envelope performance criteria and requirements stipulated by US and Canadian building codes. For complete testing and approvals information, please visit www.kingspanpanels.com.

Product Data

Insulation Core

Foamed-in-place Polyisocyanurate (PIR): with an Ozone Depletion Potential of zero (Zero ODP).

Quality & Durability

Kingspan insulated panels are manufactured from the highest quality materials, using state of the art production equipment to rigorous quality control standards, ensuring long-term reliability and service life.

Warranties

Kingspan insulated metal roof and wall panels have been used on every continent in the world under extreme climatic conditions.

Contact Kingspan for more information regarding our optional extended warranty programs of up to 20 years.

Delivery

All deliveries (unless indicated otherwise) are by road transport to project site. Off loading is the responsibility of the client.

Site Installation Procedure

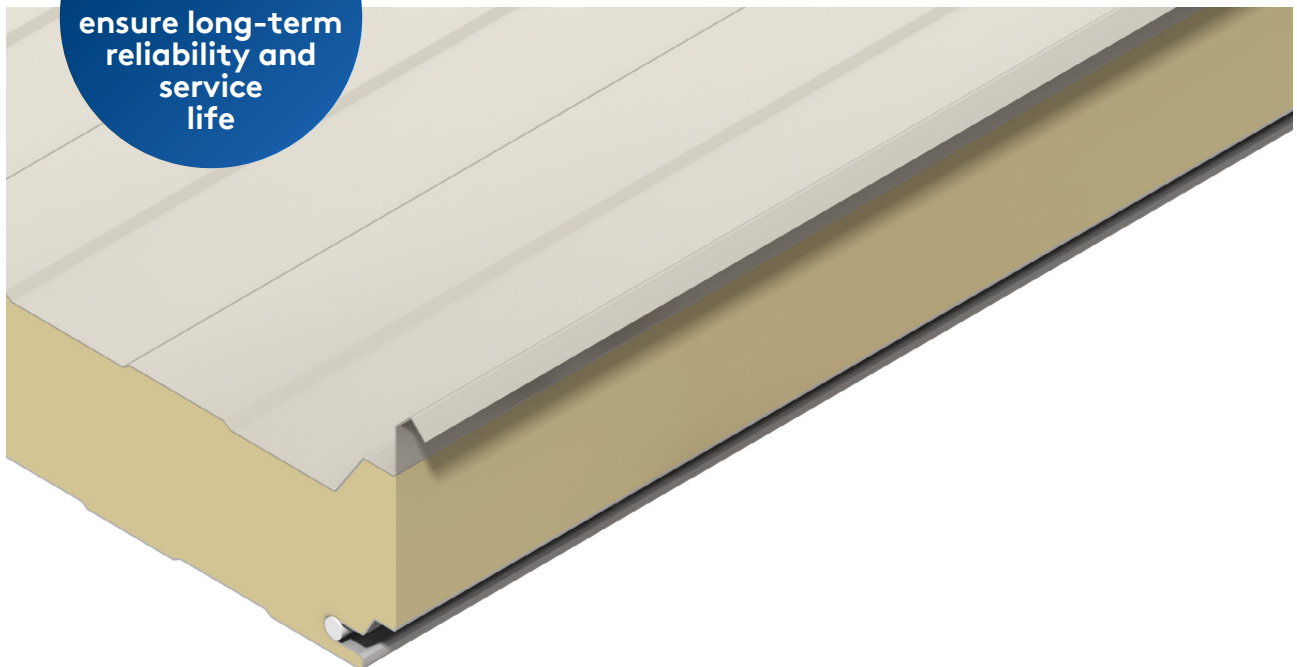
Site assembly instructions are available from **Kingspan Technical Services**. Kingspan KingSeam Installation Guides are available for download at:

US - www.kingspanpanels.us

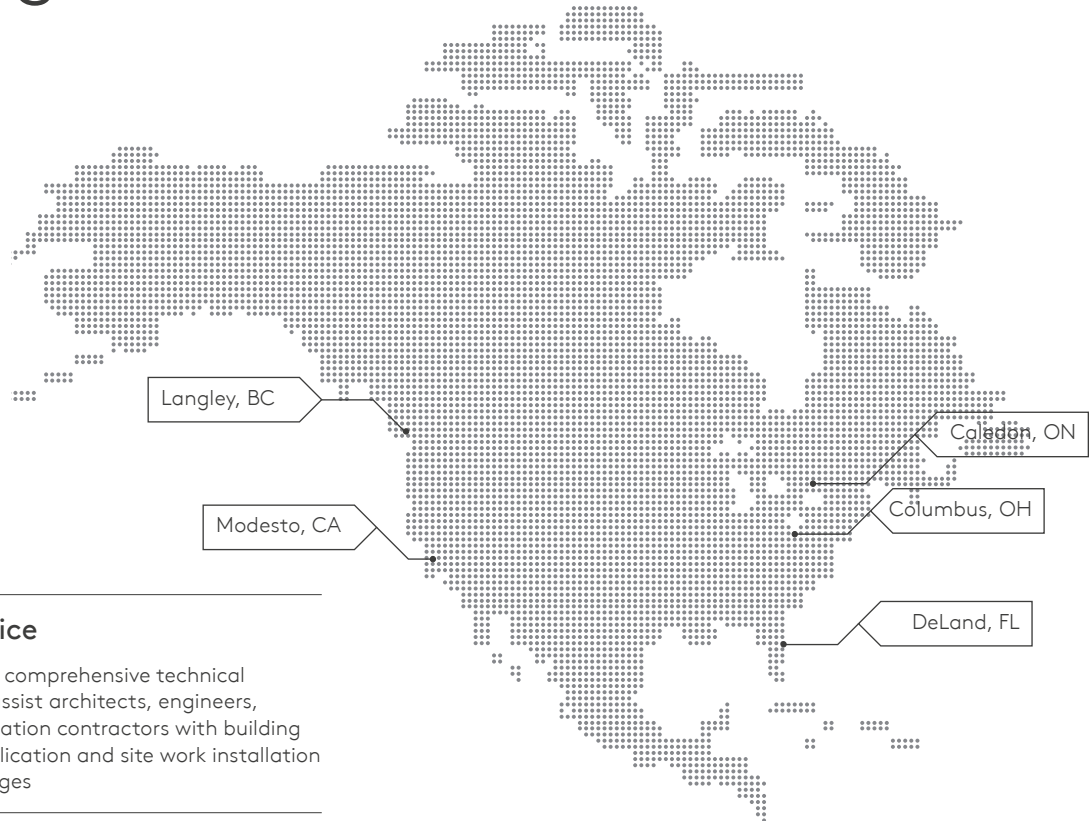
Canada - www.kingspanpanels.ca



Kingspan's
single component
systems
ensure long-term
reliability and
service
life



Testing and Services



Technical Service

Kingspan provides a comprehensive technical advisory service to assist architects, engineers, specifiers and installation contractors with building design, product application and site work installation training and challenges

Customer Service

Our dedicated team provides focused customer service for all pre and post-order administration, delivery scheduling, and installer support, ensuring a seamless coordinated customer experience.

Marketing Support

Our marketing team aims to provide a fast turnaround on standard sample and literature requests, eliminating delays with planning and client approval of material, so that your project begins on time.

Additional marketing support is provided through the use of project case studies.

Field Service Support

Kingspan's Field Service Engineering Team offer customers free contractor training on the installation of new and existing products, site inspection services as well as advice on mechanical handling solutions.

Sales Team

Our regionally based sales team can provide assistance on any project from the design stage through to site installation.

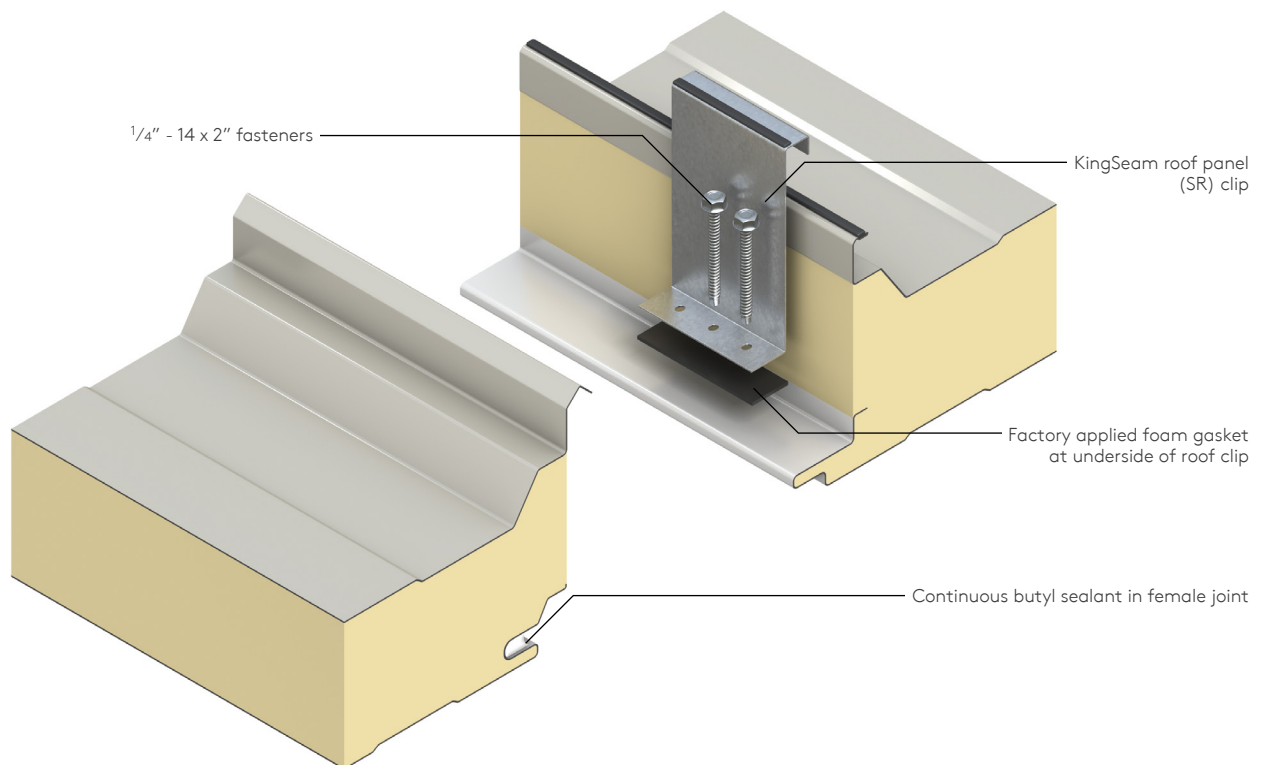
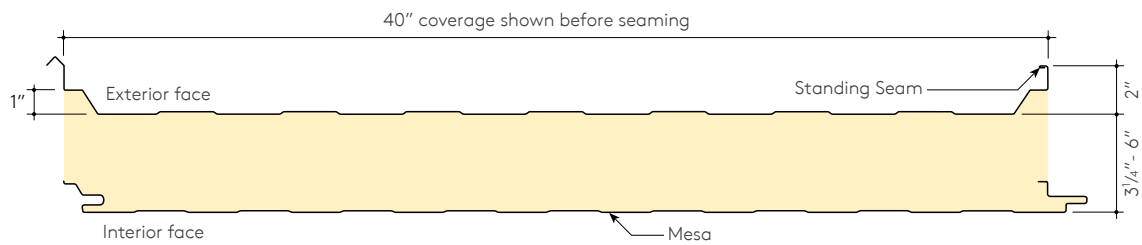
Find your local sales rep on our website www.kingspanpanels.com

Email Us

Technical services:	technical.NA@kingspanpanels.com
Installation seminars:	installation@kingspanpanels.com
Marketing:	marketingdept@kingspanpanels.com
Product samples:	samples.NA@kingspan.com

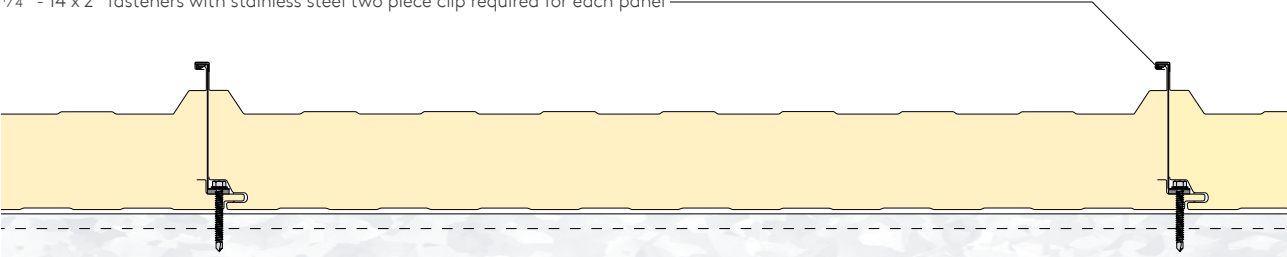
Construction Details

Side Lap Detail

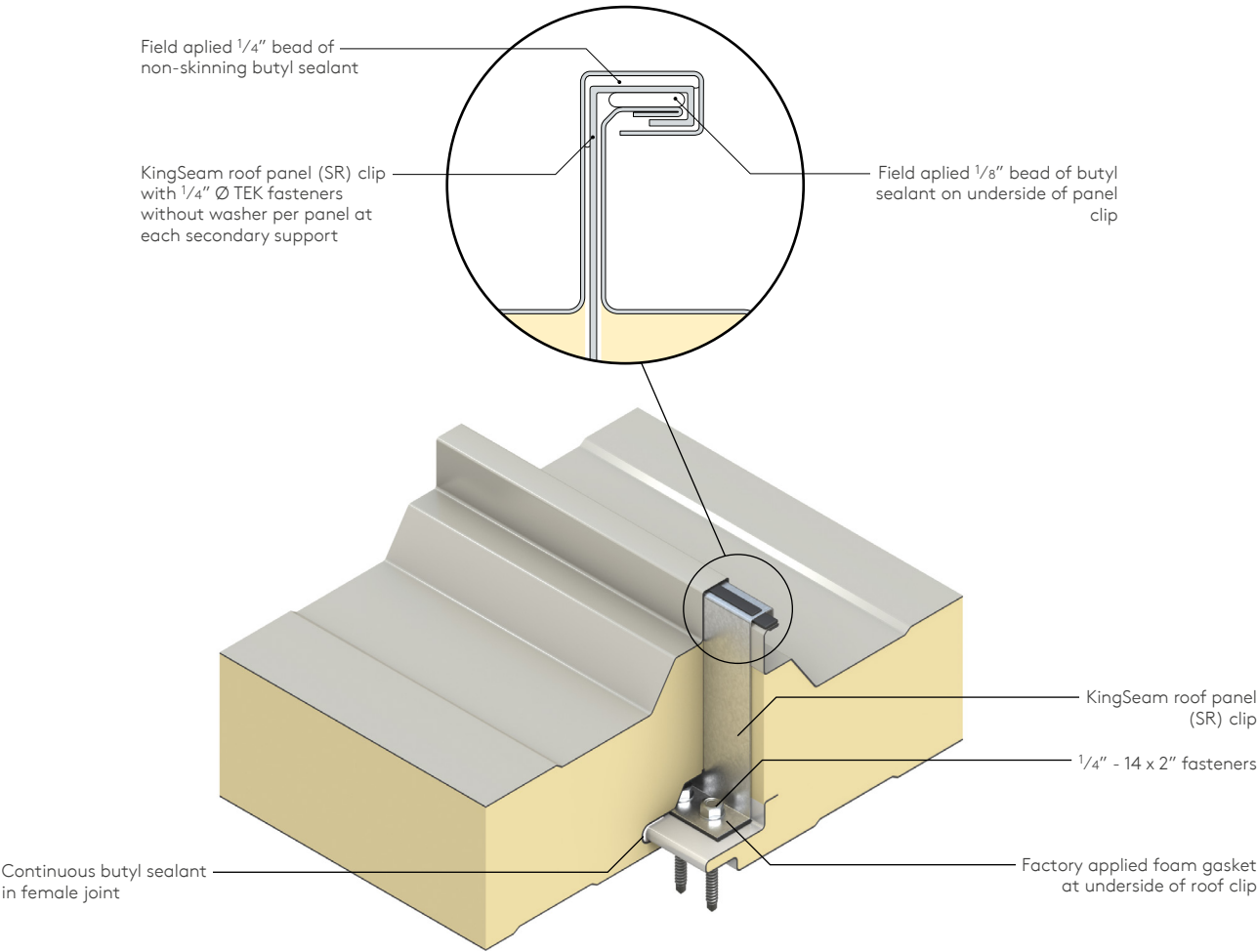


Side Lap Detail

1/4" - 14 x 2" fasteners with stainless steel two piece clip required for each panel

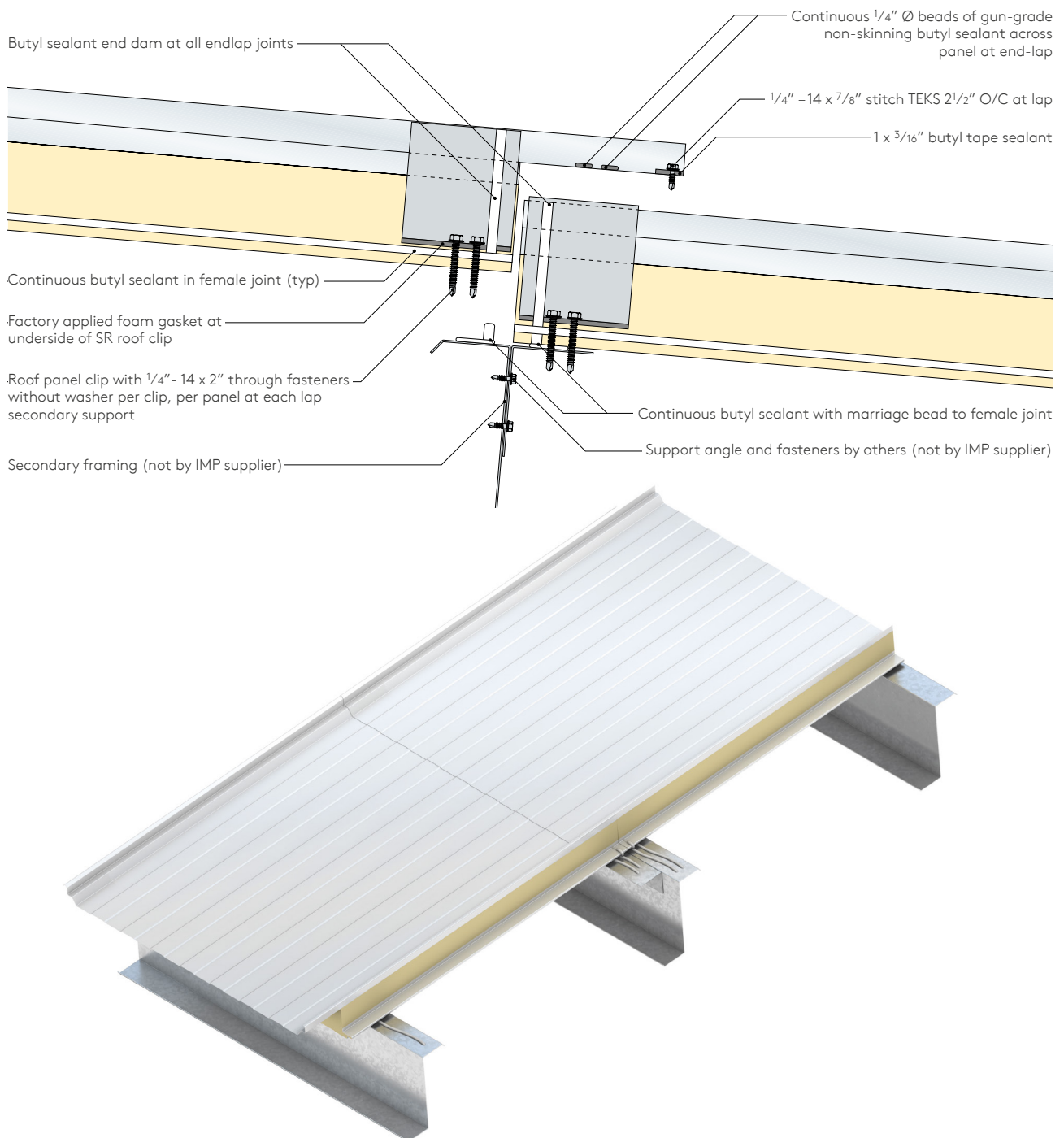


(shown after seaming)



Construction Details

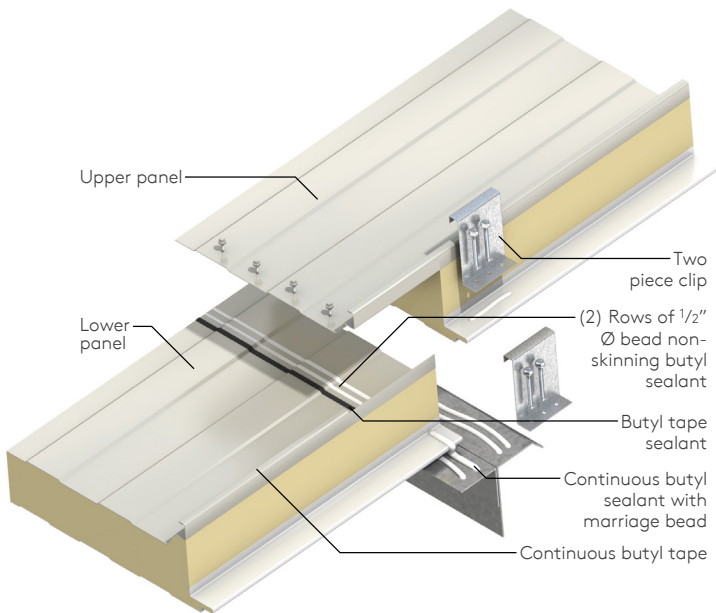
Endlap Detail



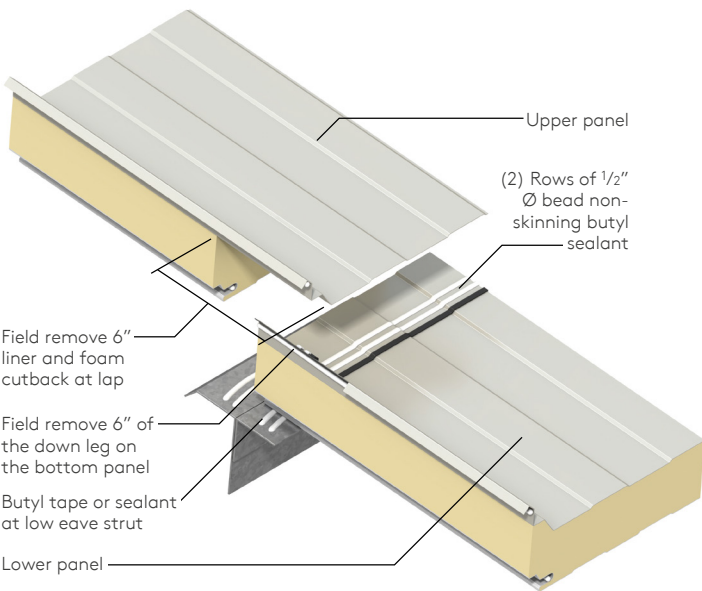
Staggered Endlap Assembly



Male Leg Endlap

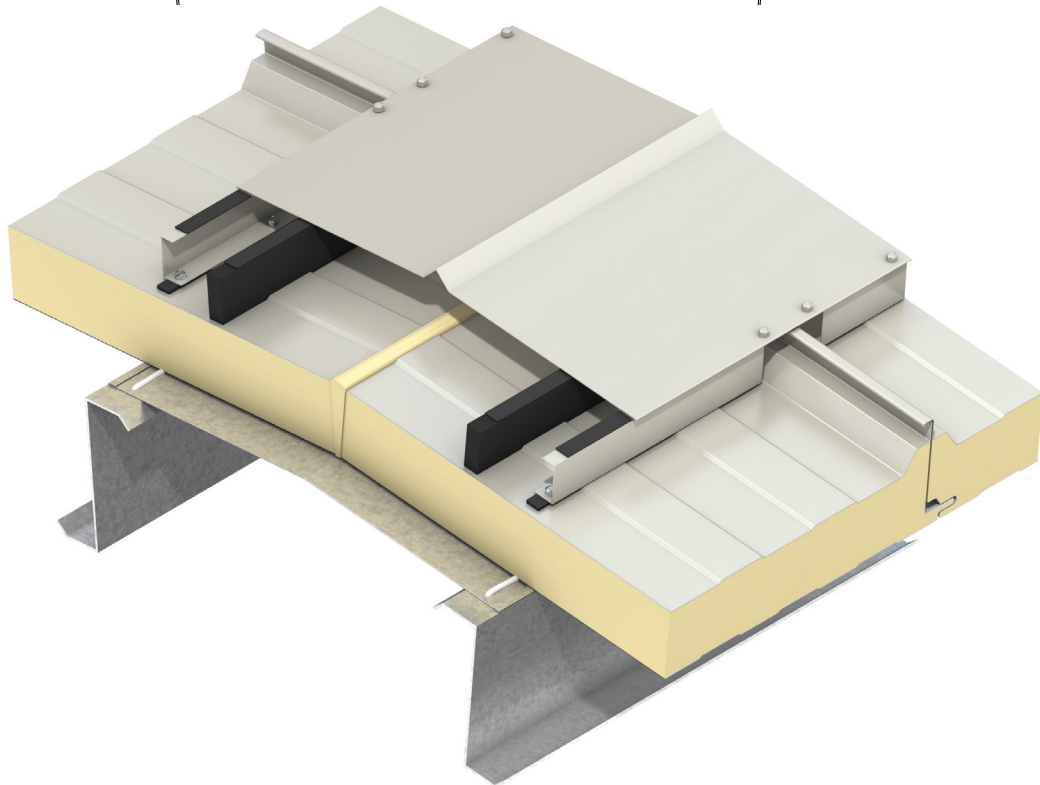
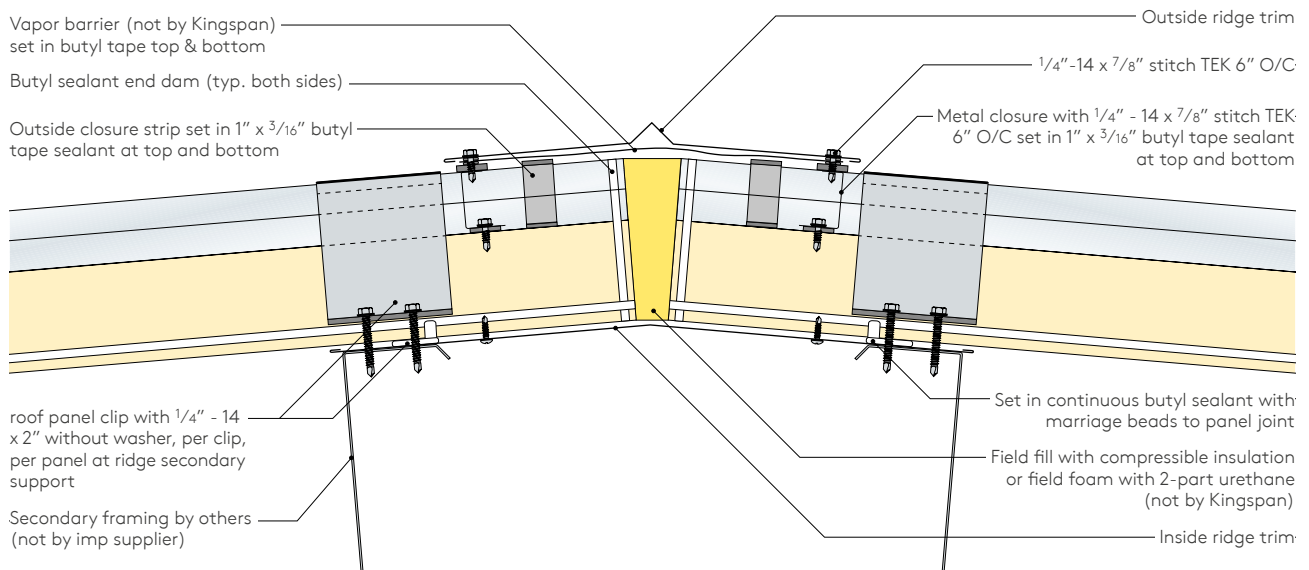


Female Leg Endlap

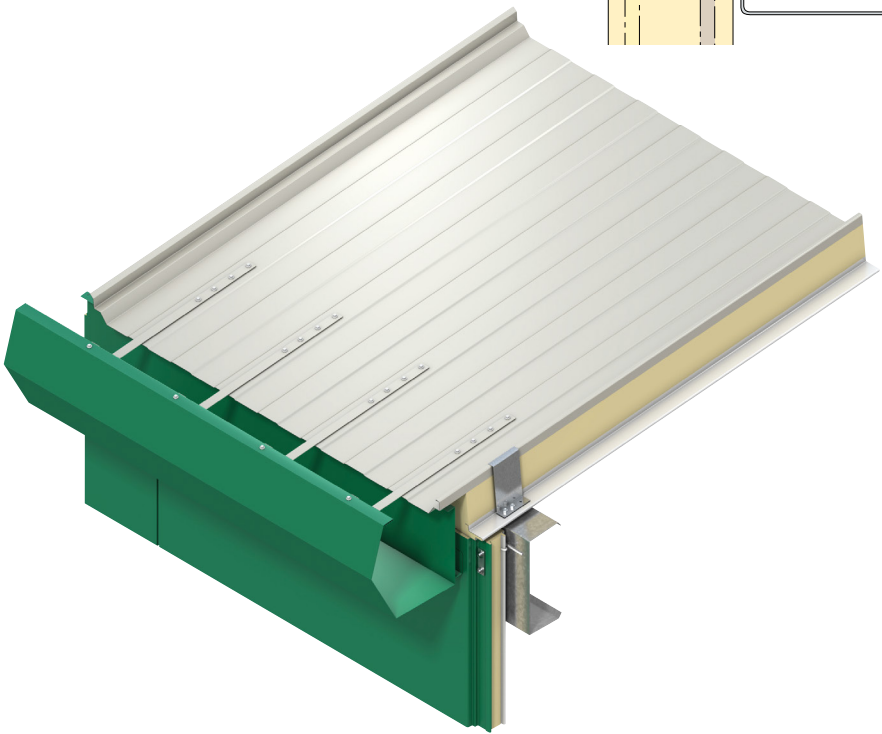
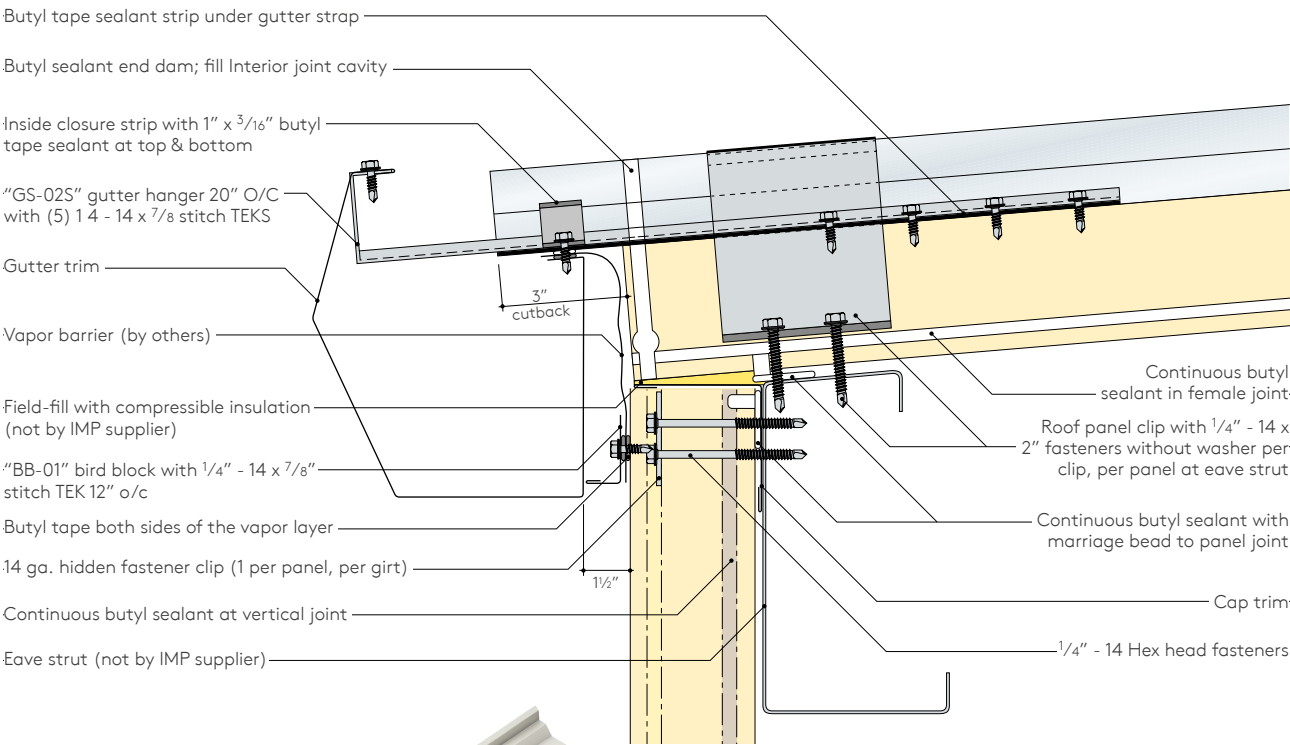


Construction Details

Ridge Detail



Low Eave with Gutter Detail



Contact Details

USA

DeLand, FL: 877-638-3266
Modesto, CA: 800-377-5110

info.NA@kingspanpanels.com
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For the product offering in other markets please contact your local sales representative or visit our website.

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