

Cold Storage and Temperature Controlled Environments

Insulated Panels / Insulation Board / Insulated Doors



Kingspan, a global leader in high-performance building envelopes, has ideal solutions for thermally controlled environments such as cold storage freezers and coolers, food processing, and packaging facilities. In addition, Kingspan's controlled atmosphere solutions offer high value product protection and hygienic control.



Consistent Temperature Control

Kingspan's diverse controlled environment product line has the highest insulation reliability for temperature extremes - from blast freezers as cold as -40°F (-40°C) to pharmaceutical stability rooms up to 180°F (82°C).

Kingspan offers fully integrated solutions, for a complete energy efficient thermal envelope, including walls, ceilings, under floor insulation, lighting and energy. From processing to warehousing to any application where thermal performance is critical, Kingspan is your ideal partner.

Kingspan CLEANsafe

In 2011, the U.S. Food & Drug Administration (FDA) implemented the U.S. Food Safety Modernization Act (FSMA) ensuring U.S. food supply safety by shifting from response of contamination to prevention. Kingspan initiated CLEANsafe, an industry first, engineered to comply with the FSMA – approved by the U.S. Department of Agriculture (USDA), FDA, the Food Safety and Inspection Service (FSIS), and the Canadian Food Inspection Agency (CFIA).

CLEANsafe insulated panels provide a sealed monolithic structure for maintaining hygiene safe requirements when exposed to secondary food contact and corrosive cleaning agents. The tight fitting panel joints offer superior airtightness, preventing thermal bridging and condensation.

Contact your Kingspan Sales Representative or our Technical Services Department with your specific building envelope requirements.

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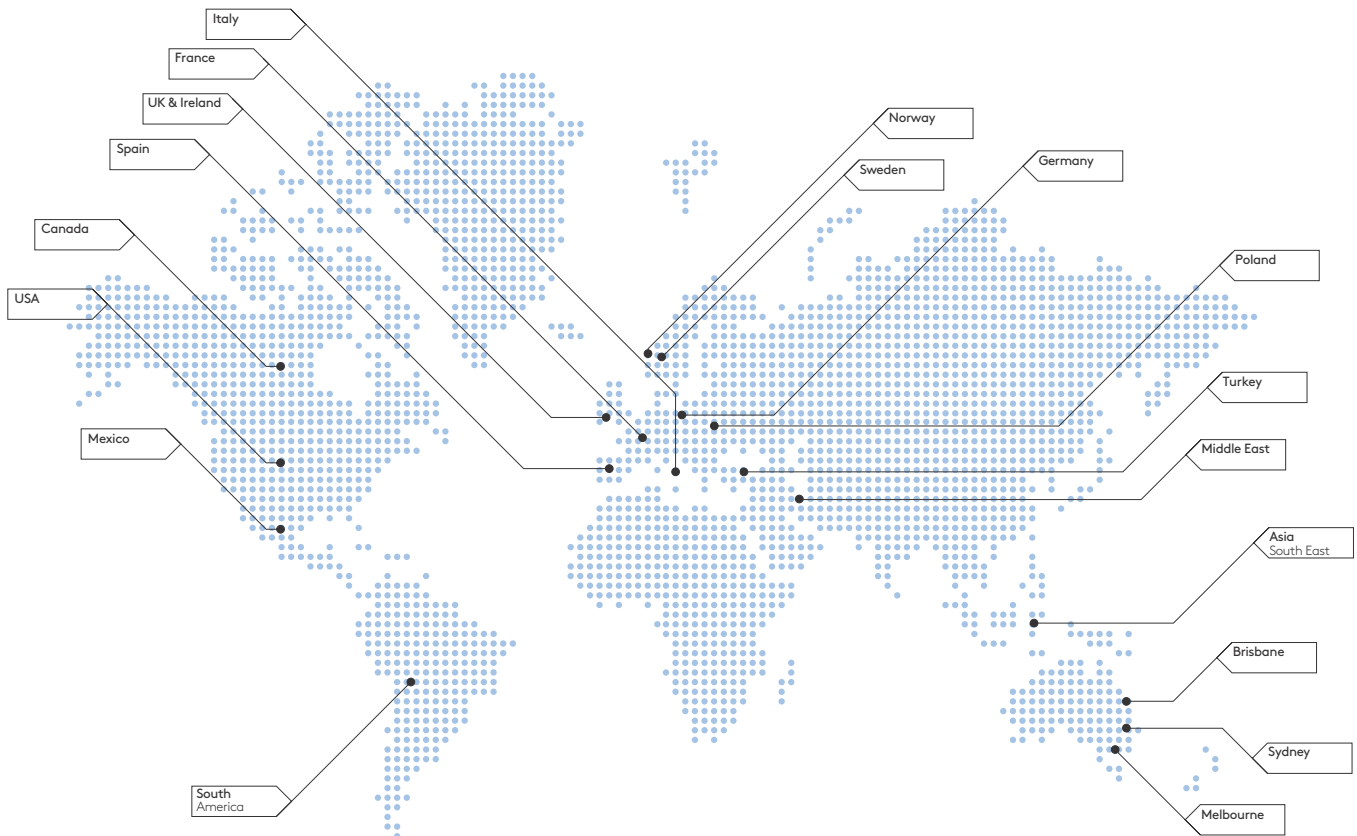
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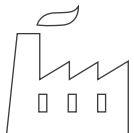
Your Global Partner

Kingspan is a global leader in the design, development and delivery of advanced building envelope products and solutions.

80+
countries



212+
manufacturing
sites worldwide



22,000+
employees
worldwide



At Kingspan Insulated Panels, we are pioneering better technologies and methods of building for a low carbon world. Improving building performance, construction methods and ultimately people's lives – that's what drives our people across the world. Energy efficiency is at the heart of our innovation, from making the industry's most thermally efficient core for our insulated panels, to producing the most airtight interfaces, to providing technical and field-service support on how to build optimally.

As the world demands more from buildings in terms of energy efficiency, fire safety, weather resilience, health and aesthetics, we have expanded beyond insulated panels in recent years to encompass high-end facades, smart LED lighting, integrated PV and structural steel solutions.

Together with the learnings from our ongoing research into better building design, these enhanced Kingspan envelopes will take our built environment to the next era of efficiency and wellbeing.



Higher Building Performance
with Kingspan

It's all in the gray cells

QuadCore® Technology is Kingspan's next generation of self-blended hybrid insulation core. Across the world of insulated panels, this innovation with its distinctive gray microcells powers the industry's highest combined performance:

- Exceptional thermal efficiency
- Superior fire protection
- Unmatched health & wellness certification
- 30-year thermal warranty

QuadCore® Technology, together with our end-to-end services and whole building design know-how, takes Kingspan buildings to a higher level of lifetime performance, and delivers the ultimate protection for our partners, their buildings, and the environment for future generations.



POWERED BY
QuadCore®
TECHNOLOGY

1

Exceptional thermal efficiency

QuadCore® Technology is certified as one of the most thermally efficient closed-cell insulation cores on the market.

Lifetime performance and value benefits

- The highly efficient R-value of R-8.0 per inch has the potential to reduce HVAC size, and lower both energy consumption and carbon emissions.
- QuadCore® Technology is a more streamlined solution relative to other insulation materials with associated benefits in interior space optimization, for specific transport, and ease of handling during construction.

2

Superior fire protection

The hybrid nature of QuadCore® Technology delivers a range of improvements in fire performance which surpass all other insulated panel systems incorporating closed-cell insulation materials.

Lifetime performance and value benefits

- For any building owner that wants the best protection against the impact of fire, the unique low smoke characteristics of QuadCore® Technology provide the optimum solution.
- QuadCore® Technology also delivers improved fire resistance ratings leading to more cost-effective installations due to economies in steelwork and fixing, in certain applications.

3

Unmatched health & wellness certification

The improved thermal performance of QuadCore® Technology helps to optimize resource efficiency. It is also CFC, HCFC, HFC free and has a very low Global Warming potential.

Lifetime performance and value benefits

- GREENGUARD Gold certified
- Environmental Product Declaration (EPD)



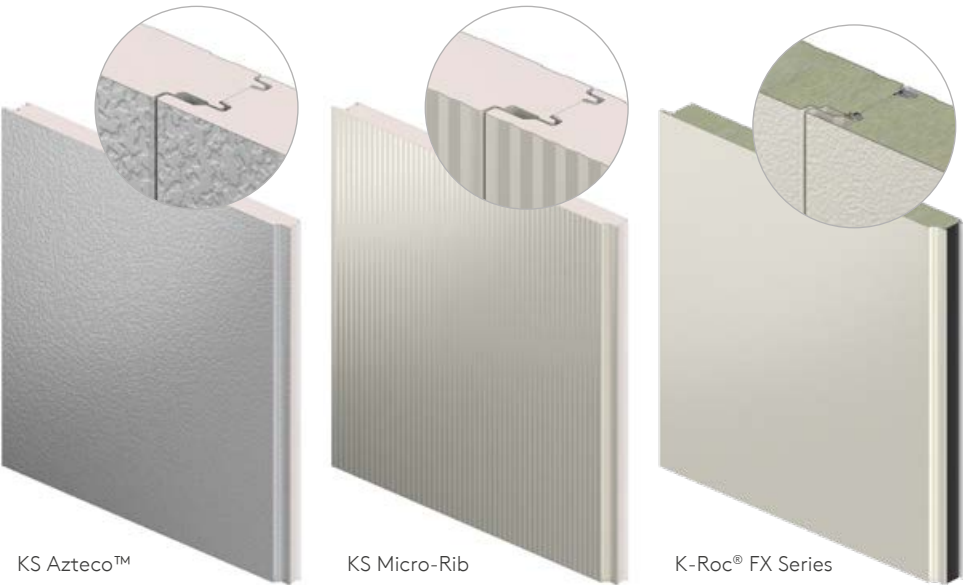
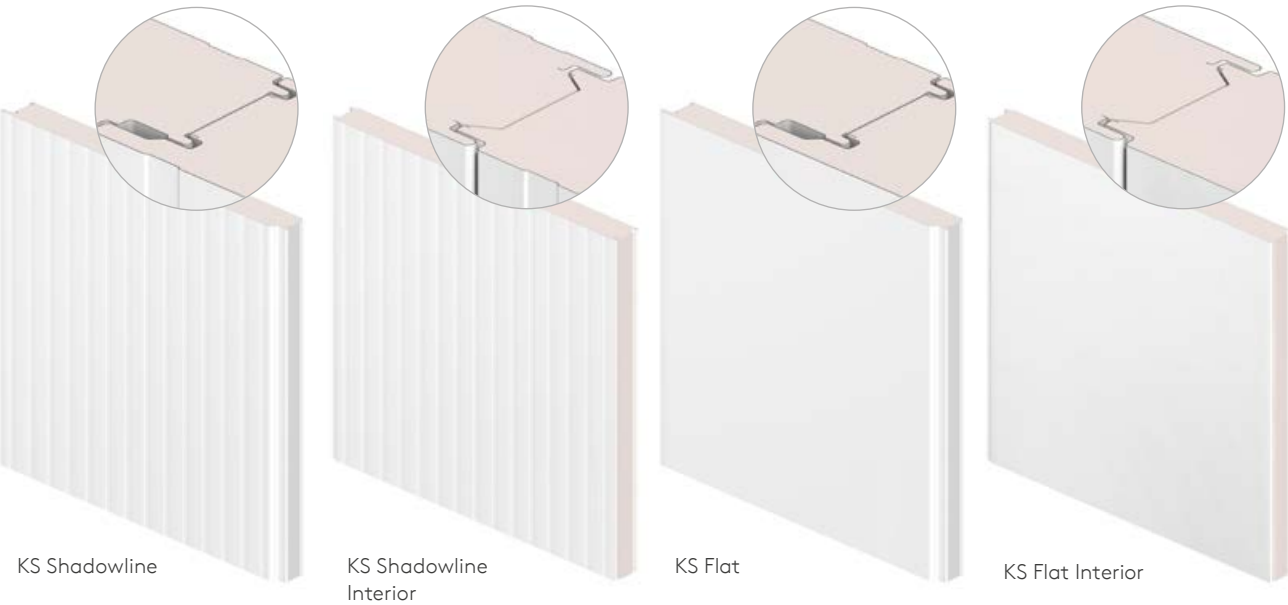
4

30-year thermal warranty

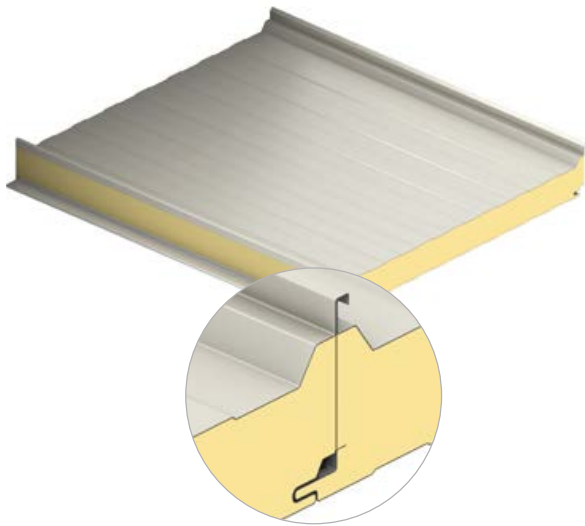
The inimitable science behind QuadCore® Technology and comprehensive independent third-party testing has delivered the industry an unparalleled 30-year thermal performance warranty.

Products at a Glance

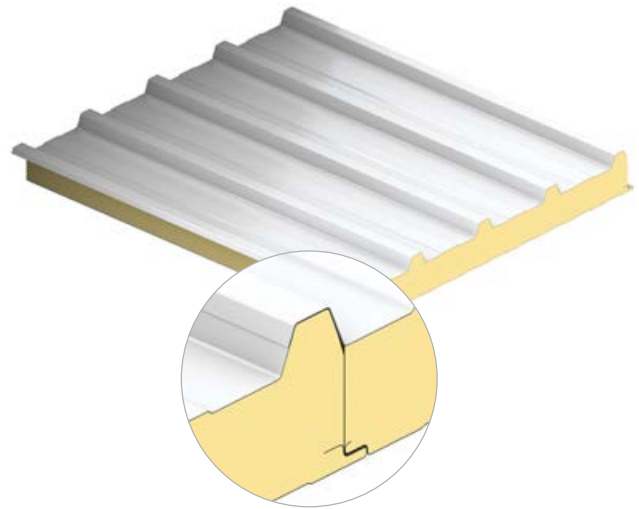
Wall – Vertical and Horizontal Application



Roof



KingSeam®



KingRib®

Performance Benefits

Kingspan insulated panels are suitable for use within temperature controlled hygienic environments – where performance is critical.



Precise Thermal Control

Ideally suited for environments where precise temperatures must be maintained. Panels are available in 2" through 8" thicknesses, for use in operating temperatures ranging from -40°F (-40°C) to 180°F (82°C).



Superior Hygiene and High Performance Coatings and Liners

Kingspan's range of panels and coating systems (accepted by CFIA and USDA) resist moisture ingress and minimize potential for toxic mold or bacterial growth. Our tight-fitting tongue and groove interlocking joints allow for a completely washable surface, allowing strict hygienic control.



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.' Kingspan insulated panels are rigorously tested to ensure that they remain both air and weathertight over the life of the building.



High R-Value

Kingspan insulated panels' insulating cores provide superior thermal performance with tested R-values of up to 9 per inch at 35°F. Most importantly, the insulation is exterior of the building structure providing 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.



Faster Build

Kingspan insulated wall and roof panels provide the exterior weather barrier, high efficiency insulation core and an integral vapor barrier. This reduces multiple labor steps required with other envelope systems down to a single operation.

Kingspan insulated panels are available in a variety of cover widths with lengths of up to 52', making on-site handling and positioning easier while increasing installation productivity.



Warranties

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

Contact Kingspan for more information regarding our optional warranty programs.



Kingspan's single component systems can increase speed of build by up to **50%** compared to traditional multi-part systems.



Making Strides Towards Our Sustainability Targets

At Kingspan, our mission is to accelerate a net-zero emissions future-built environment with people and planet at its heart. Planet Passionate is our ambitious Group-wide environmental sustainability program that sets several aggressive targets across four focus areas: **carbon**, **energy**, **circularity** and **water**.

Planet Passionate touches every aspect of Kingspan's business, from our material suppliers and employees to our customers and the communities in which we work. We're committed to working together to address the material impacts we have on our environment and community by setting robust, specific targets like those outlined below and pursuing an accelerated pace for progress.

Our 2030 Targets



CARBON

Reduce Our Carbon
Footprint

- 65% reduction in scope 1 & 2 GHG emissions^{1,2} from 2020
- 15% reduction in carbon intensity of key raw materials from 2020
- ≥90% zero emissions company cars³ (annual replacement %)



ENERGY

Increase the Use of
Renewable Energy

- 60% renewable energy consumption
- ISO 50001 certification for large sites⁴
- Solar PV systems on all wholly owned sites

¹ Excluding biogenic emissions. Scope 2 GHG emissions calculated using market-based methodology.

² GHG emissions were recalculated due to acquisitions that occurred in 2021 through to 30th September 2025.

³ Kingspan defines a "zero emissions car" as a vehicle with zero tailpipe emissions. The boundary does not include the energy used to power the vehicle or the embodied emissions from manufacturing.

⁴ Large sites: Sites with ≥5GWh annual energy use during the prior year 2024.

⁵ 90% reduction of waste to landfill in Kingspan manufacturing, R&D and assembly facilities from 2020 base year.

Learn More at
Kingspan's Sustainability
Resource Center



planetpassionate.kingspan.com



CIRCULARITY

Increase Recycling and
Lower Waste

- Zero waste to landfill₅
- 1.5 million tons recycled and renewable raw materials used annually
- Facilitate 20 product takeback and recycling schemes

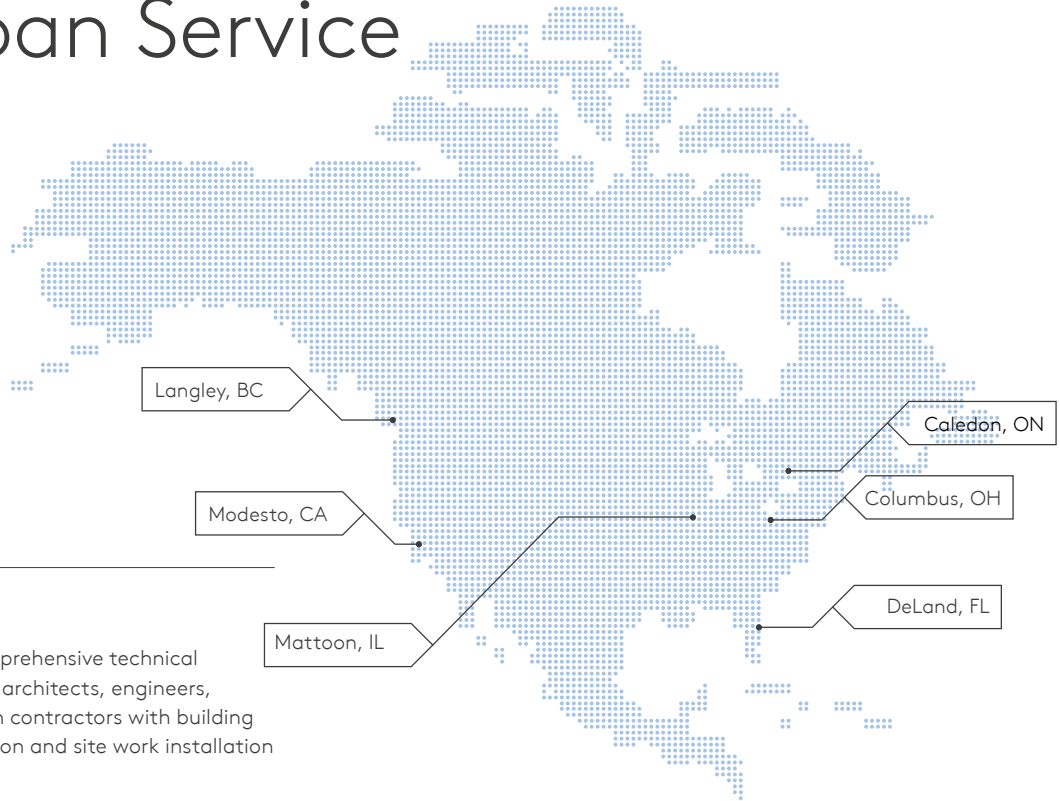


WATER

Harvest Rainwater and
Support Ocean Clean-up

- Harvest 100 million liters of rainwater annually

Testing and Services – Kingspan Service



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.

Energy Service

Kingspan offers a performance energy modelling service on select projects to help design teams understand scenarios contributing to optimizing the energy efficiency of insulated metal panel assemblies based on meeting or exceeding ASHRAE 90.1 requirements.

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
Product samples:	samples.NA@kingspan.com

Follow Kingspan on:



CLEANSafe

Controlled environments take many different forms. Their performance and functionality depend on their specific project requirements and can be affected by the conditions the materials' systems are subjected to.

Kingspan CLEANsafe

The corrosive factors of an internal environment are determined by the presence of corrosive chemicals and / or microorganisms in the internal atmosphere and relative humidity, as well as by the frequency of cleaning, aggressiveness of the cleaners, degreasers, sanitizers, and method of cleaning.

Kingspan CLEANsafe coatings, each designed specifically for temperature controlled environments, have particular properties suited to different environments. We offer and aid in choosing the right coatings to meet the appropriate classification of corrosive environment and type of activities.



	Corrosiveness	Inspection Frequency	Type of Application	Kingspan CLEANsafe MP	Kingspan CLEANsafe PVDF	Kingspan CLEANsafe120	Kingspan CLEANsafe Stainless Steel
C1	Very Low	Annually	Dry packaged cold storage, docks, locker rooms, toilets, offices, shops.	Yes	Yes	Yes	Yes
C2	Low	Annually	Storage, sorting and packing of fruit and vegetables, storage of packaged meat and dairy products.	–	Yes	Yes	Yes
C3	Medium	Every 6 months	Food production and preparation areas, dry process, ice cream production, butter production, breweries, dairies, wine cellars, processing of precooked foods, baking facilities	–	Yes	Yes	Yes
C4	High	Every 3 months	Wet process industrial kitchens and cooking, storage of unpacked fish, cheese, meat cutting, scalding and evisceration	–	–	Yes	Yes
C5	Very High	Every 3 months	Primary live rooms, rendering, picking, cooking, preparation of marine products	–	–	–	Yes

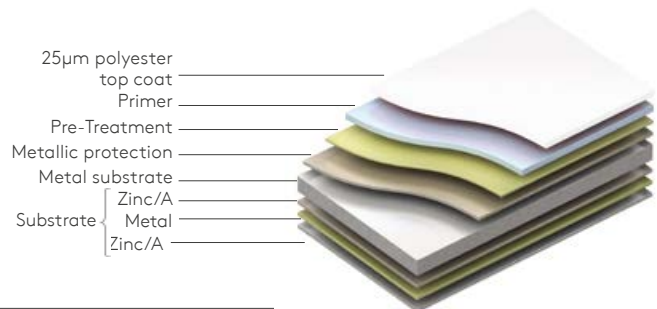
*Buildings may contain areas where different conditions apply and must be considered separately if they have different corrosive environments. This table is provided for general guidance only. For more information about the effects of various chemicals on the coatings please contact your Kingspan Sales Rep or Kingspan Technical Services.

CLEANsafe

CLEANsafe

Modified Polyester

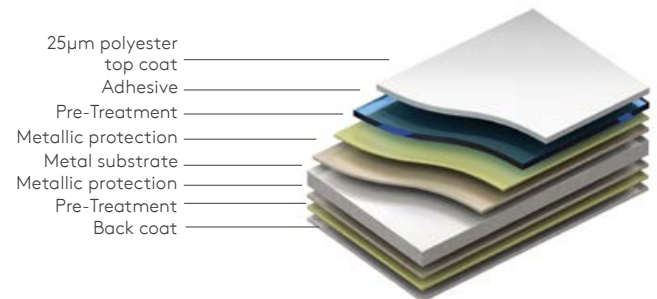
CLEANsafe is a chemically inert polyester paint applied to pre-treated metal specifically developed for controlled environments.



CLEANsafe

PVDF

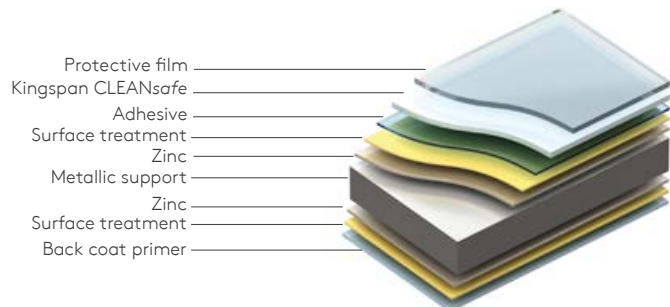
CLEANsafe is a chemically inert polyester (PE) coating, applied to pre-treated metal, suitable for moderately aggressive internal environments.



CLEANsafe 120

CLEANsafe 120 is a chemically inert polyvinyl chloride (PVC) film, laminated to pre-treated metal, suitable for internal for controlled environments.

Joints between panels can be either caulked or chemically cold-welded.



CLEANsafe 304

Stainless Steel

CLEANsafe Stainless steel 304 is a chemically inert, gap-free austenitic stainless steel, specifically designed for conditioned environments and environments with a high corrosion factor.

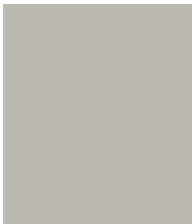


Wall Panel Interior Applications

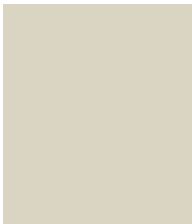
USDA/CFIA Compliant Systems

Select color options are available with high-performance coating systems designed to meet USDA Food Safety and Inspection Service (FSIS) and Canadian Food Inspection Agency (CFIA) guidelines for incidental, indirect food contact in food processing environments.

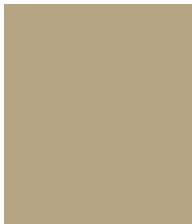
Sherwin-Williams® WeatherXL™ (SMP)



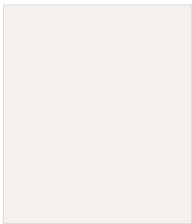
Driftwood
Code WXW0064L
SR:0.55 E:0.86 SRI:64



Sandstone
Code WXD0209L
SR:0.49 E:0.86 SRI:56

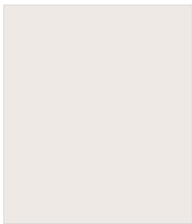


Surrey Beige
Code WXD0259L
SR:0.41 E:0.86 SRI:45



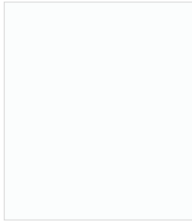
Imperial White
Code WXW1118L
SR:0.66 E:0.85 SRI:79

MP (Modified Polyester)

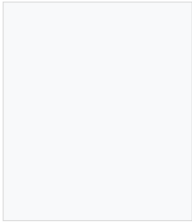


MP Imperial White
Code PMW33973
SR:0.65 E:0.86 SRI:78

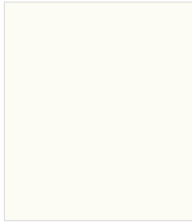
Sherwin-Williams® Fluropon® (PVDF)



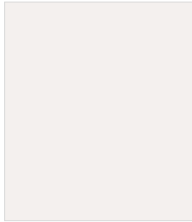
Regal White
Code 431R444
SR:0.70 E:0.86 SRI:85



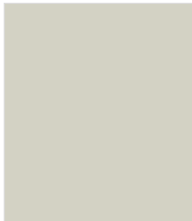
Ascot White
Code 431R453
SR:0.69 E:0.85 SRI:83



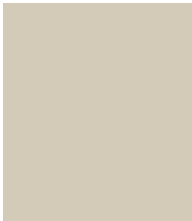
Bone White
Code 431R454
SR:0.69 E:0.84 SRI:83



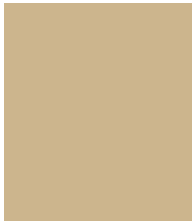
Imperial White
Code 431R3243
SR:0.70 E:0.88 SRI:85



Driftwood
Code 431B922
SR:0.45 E:0.86 SRI:50



Sandstone
Code 433R396
SR:0.61 E:0.85 SRI:72



Surrey Beige
Code 433R398
SR:0.48 E:0.86 SRI:54

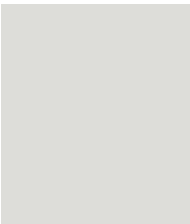
Paint finish warranties apply only to qualifying exterior applications and are not available for interior applications.

Roof Panel Interior Applications

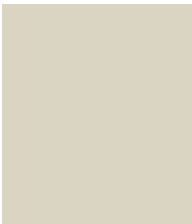
USDA/CFIA Compliant Systems

Select color options are available with high-performance coating systems designed to meet USDA Food Safety and Inspection Service (FSIS) and Canadian Food Inspection Agency (CFIA) guidelines for incidental, indirect food contact in food processing environments.

Sherwin-Williams® WeatherXL™ (SMP)

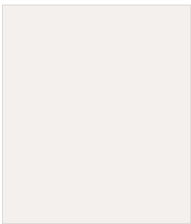


Polar White
Code WXW0915L
SR:0.60 E:0.87 SRI:71



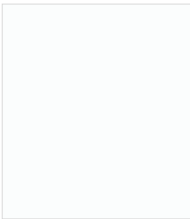
Sandstone
Code WXD0104L
SR:0.60 E:0.86 SRI:71

Sherwin-Williams® WeatherXL™ (SMP)

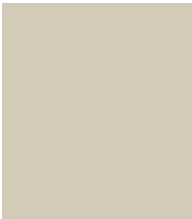


Imperial White
Code PMW4312
SR:0.66 E:0.85 SRI:79

Sherwin-Williams® Fluropon® (PVDF)



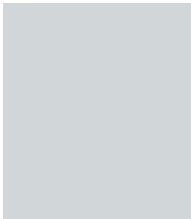
Regal White
Code 431R444
SR:0.70 E:0.86 SRI:85



Sandstone
Code 433R396
SR:0.61 E:0.85 SRI:72



Surrey Beige
Code 433R398
SR:0.48 E:0.86 SRI:54



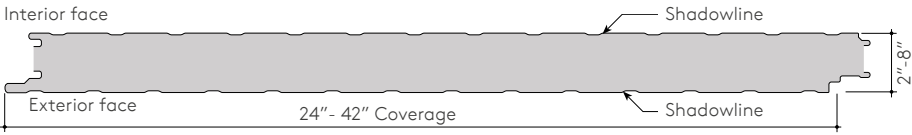
Snow White
Code 431R539
SR:0.67 E:0.87 SRI:81

Paint finish warranties apply only to qualifying exterior applications and are not available for interior applications.

KS Shadowline

KS Shadowline panels are the trusted choice for controlled environment solutions. Engineered for performance and durability, KS Shadowline Exterior Panels are perfectly suited for food distribution centers and cold storage warehouse facilities.

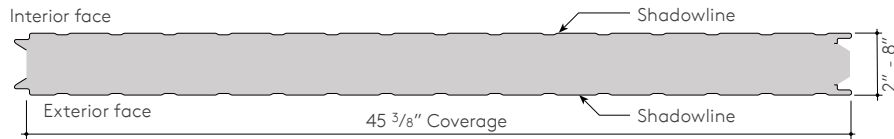
Insulation Core:	QuadCore® Technology
Profile:	Exterior: Shadowline Interior: Shadowline
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 26, 24, 22 ga Interior: 26, 24, 22 ga
Width:	24", 30", 36", 42"
Thickness:	2", 2.5", 3", 4", 5", 6", 8"
Length:	8' - 53'
Standard reveal options:	Vertical: 1/8" or 3/8" Horizontal: 3/8"
Orientation:	Vertical or Horizontal
Post fabrication:	Trimless ends, folded corners (Manufacturing Limitations apply. Please contact us for detailed information)
R-value:	QuadCore® Technology: ≈ 8 per inch per ASTM C518 @ 75°F mean temperature ≈ 9 per inch per ASTM C518 @ 35°F mean temperature



KS Shadowline Interior

KS Shadowline Interior panels are applicable for both wall and ceiling conditions in cold storage buildings, food and meat processing plants, critical temperature and controlled environment areas as well as in medical and pharmaceutical facilities. The superior engineered joint assures a tight, well designed vapor barrier in enclosures of any size.

Insulation Core:	QuadCore® Technology
Profile:	Exterior: Shadowline Interior: Shadowline
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 26, 24, 22 ga Interior: 26, 24, 22 ga
Width:	45 3/8"
Thickness:	2", 2 3/4", 3", 4", 5", 6", 8"
Length:	8' - 53'
Orientation:	Vertical
R-value:	≈ 8 per inch per ASTM C518 @ 75°F mean temperature ≈ 9 per inch per ASTM C518 @ 35°F mean temperature



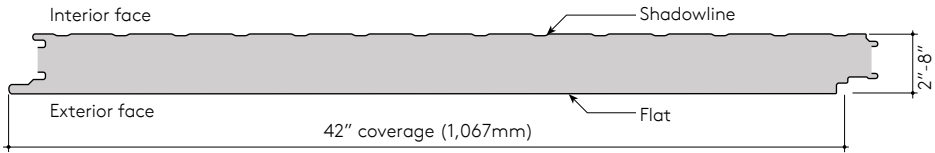
KS Flat

KS Flat panels with QuadCore® are the ideal solution for interior walls and ceilings for a range of applications including food and life science, pharmaceutical, bio-technology laboratories, research and advanced technology facilities. KS Flat panels with QuadCore® offer the highest level of hygienic and contamination control.

KS Flat panels with QuadCore® feature a flat non-porous surface which aids cleaning and offers high levels of resistance to bacterial growth, ensuring a controlled, sterile environment.



Insulation Core:	QuadCore® Technology
Profile:	Exterior: Flat Interior: Shadowline
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 26, 24, 22 ga Interior: 26, 24, 22 ga
Width:	42"
Thickness:	2", 2.5", 3", 4", 5", 6", 8"
Length:	8' - 53'
Reveal option	1/8" or 3/8"
Orientation:	Vertical or horizontal
R-value:	QuadCore® Technology: ≈ 8 per inch per ASTM C518 @ 75°F mean temperature ≈ 9 per inch per ASTM C518 @ 35°F mean temperature



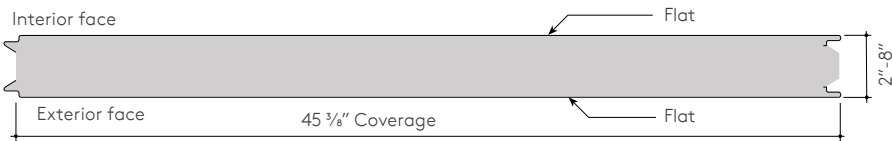
KS Flat Interior

KS Flat Interior panels with QuadCore® are the ideal solution for interior walls and ceilings for a range of applications including food and life science, pharmaceutical, bio-technology laboratories, research and advanced technology facilities. KS Flat Interior panels with QuadCore® offer the highest level of hygienic and contamination control.

KS Flat Interior panels with QuadCore® feature a flat non-porous surface to both sides which aids cleaning and offers high levels of resistance to bacterial growth, ensuring a controlled, sterile environment.



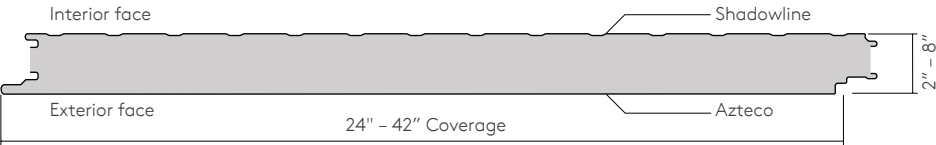
Insulation Core:	QuadCore® Technology
Profile:	Exterior: Flat Interior: Shadowline or Flat
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 24, 22 ga Interior: 24, 22 ga
Width:	45 3⁄8"
Thickness:	2", 2 3⁄4", 3", 4", 5", 6", 8"
Length:	8' - 53'
Reveal option:	N/A
Orientation:	Vertical
R-value:	QuadCore® Technology: ≈ 8 per inch per ASTM C518 @ 75°F mean temperature ≈ 9 per inch per ASTM C518 @ 35°F mean temperature



KS Azteco™

KS Azteco™ panels have a flat exterior profile with a heavy embossed texture. Ideal for improving curb appeal and addressing community or municipal design restrictions.

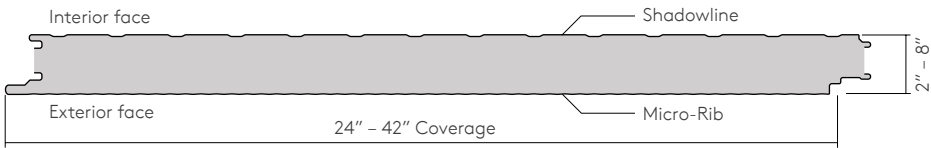
Insulation Core:	QuadCore® Technology
Profile:	Exterior: Flat Interior: Shadowline
Embossing:	Exterior: Azteco Interior: Stucco or non-embossed
Gauge:	Exterior: 26, 24, 22 ga Interior: 26, 24, 22 ga
Width:	24", 30", 36", 42"
Thickness:	2", 2.5", 3", 4", 5", 6", 8"
Length:	8' – 53'
Standard reveal options:	Vertical: 1/8" or 3/8" Horizontal: 3/8"
Orientation:	Vertical or horizontal
Post fabrication:	Trimless ends, folded corners (Manufacturing Limitations apply. Please contact us for detailed information)
R-value:	QuadCore® Technology: ≈ 8 per inch per ASTM C518 @ 75°F mean temperature ≈ 9 per inch per ASTM C518 @ 35°F mean temperature



KS Micro-Rib

Micro-Rib wall systems create a highly attractive linear appearance with subtle shadows, providing design flexibility and architectural improvement to the traditional warehouse design.

Insulation Core:	QuadCore® Technology
Profile:	Exterior: Micro-Rib Interior: Shadowline
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 24, 22 ga Interior: 26, 24, 22 ga
Width:	24", 30", 36", 42"
Thickness:	2", 2.5", 3", 4", 5", 6", 8"
Length:	8' – 53'
Standard reveal options:	Vertical: 1/8" or 3/8" Horizontal: 3/8"
Orientation:	Vertical or horizontal
Post fabrication:	Trimless ends, folded corners (Manufacturing Limitations apply. Please contact us for detailed information)
R-value:	QuadCore® Technology: ≈ 8 per inch per ASTM C518 @ 75°F mean temperature ≈ 9 per inch per ASTM C518 @ 35°F mean temperature



K-Roc® FX Series

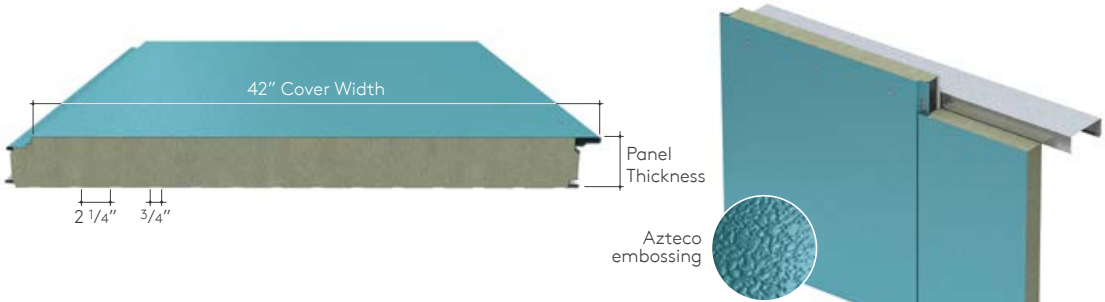
For superior fire protection K-Roc FX Series panels are an excellent choice. The 42" cover width of K-Roc FX allows for fast, easy installation.

Insulation Core:	Mineral fiber
Profile:	Exterior: Azteco™, Flat, Micro-Rib, Mini Micro-Rib, Shadowline Interior: Shadowline
Embossing:	Exterior: Stucco or non-embossed (Azteco™ profile only available with Azteco™ embossing) Interior: Stucco or non-embossed
Gauge:	See individual panels
Width:	42"
Thickness:	4", 6", 8"
Length:	8' - 48'
Standard reveal options:	1/8"
Orientation:	Vertical or horizontal
Post fabrication:	N/A
R-value:	3.7 per inch per ASTM C518 @ 75°F or 35°F mean temperature



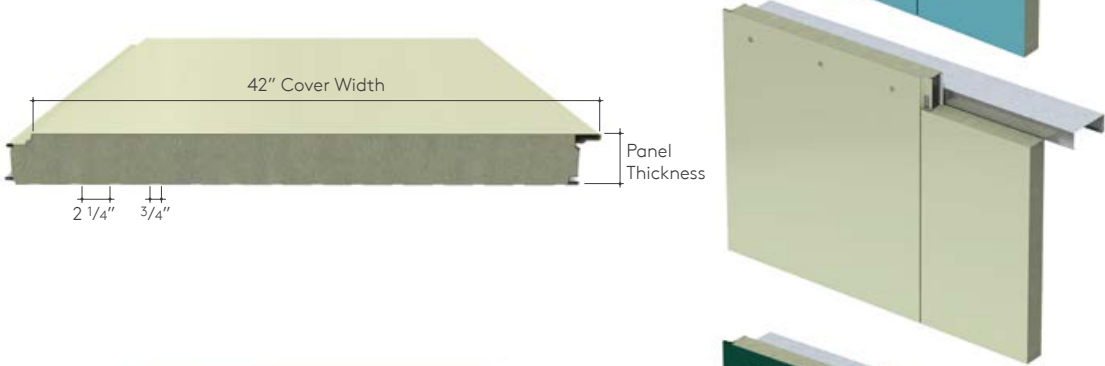
K-Roc FX Azteco™

Gauge: Exterior: 24, 22 ga
Interior: 26, 24, 22 ga



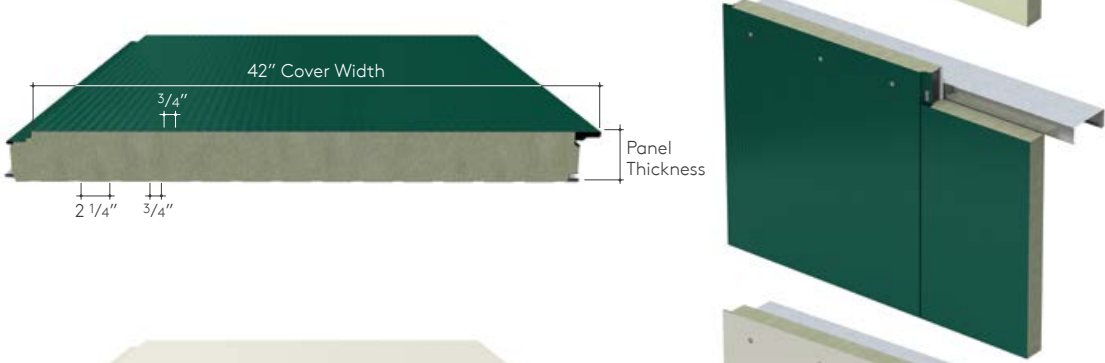
K-Roc FX Flat

Gauge: Exterior: 24, 22 ga
Interior: 26, 24, 22 ga



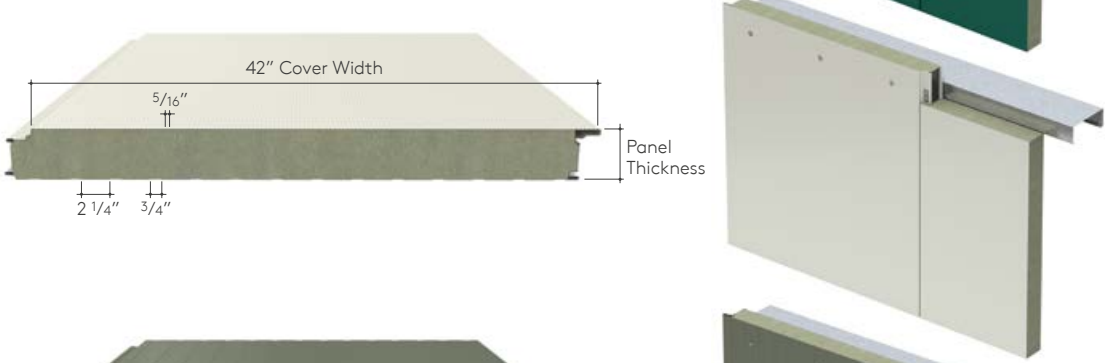
K-Roc FX Micro-Rib

Gauge: Exterior: 24, 22 ga
Interior: 26, 24, 22 ga



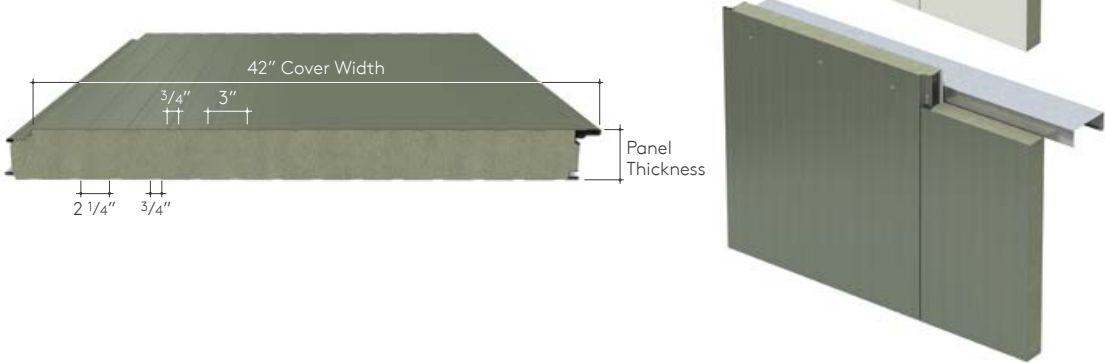
K-Roc FX Mini Micro-Rib

Gauge: Exterior: 24 ga
Interior: 26, 24, 22 ga



K-Roc FX Shadowline

Gauge: Exterior: 26, 24, 22 ga
Interior: 26, 24, 22 ga



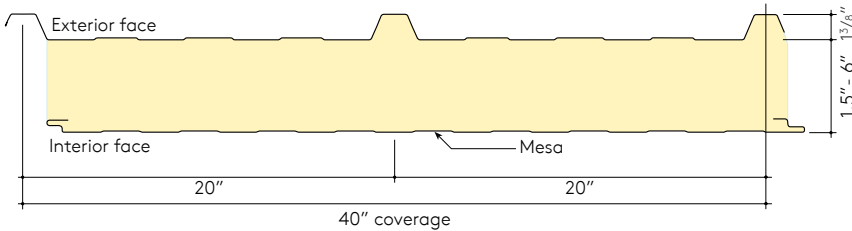
KingRib® 3 / KingRib® 5

The KingRib® insulated roof panel is the perfect option for a modern design combined with high energy-efficiency, durability, and high R-value. KingRib® will not only enhance your building's aesthetic appeal, but will also dramatically improve the efficiency of your building's thermal envelope.

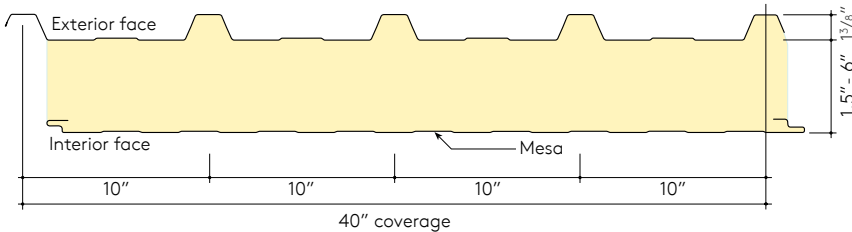
Profile:	Exterior: Mesa with Trapezoidal Ribs Interior: Mesa
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 26, 24, 22 ga Interior: 26, 24, 22 ga
Width:	40"
Thickness:	1.5", 2.5", 4", 5", 6"
Length:	8' - 50' (please contact your Kingspan Regional Sales Manager 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



KingRib 3



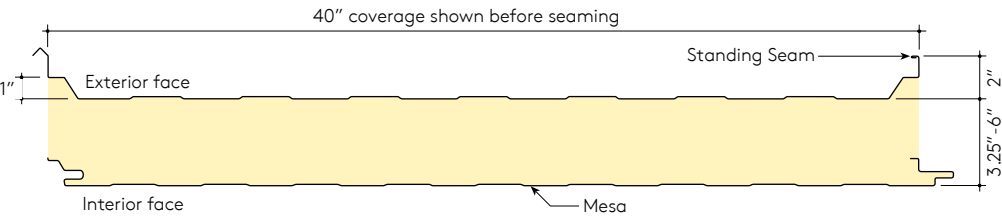
KingRib 5



KingSeam® Standing Seam

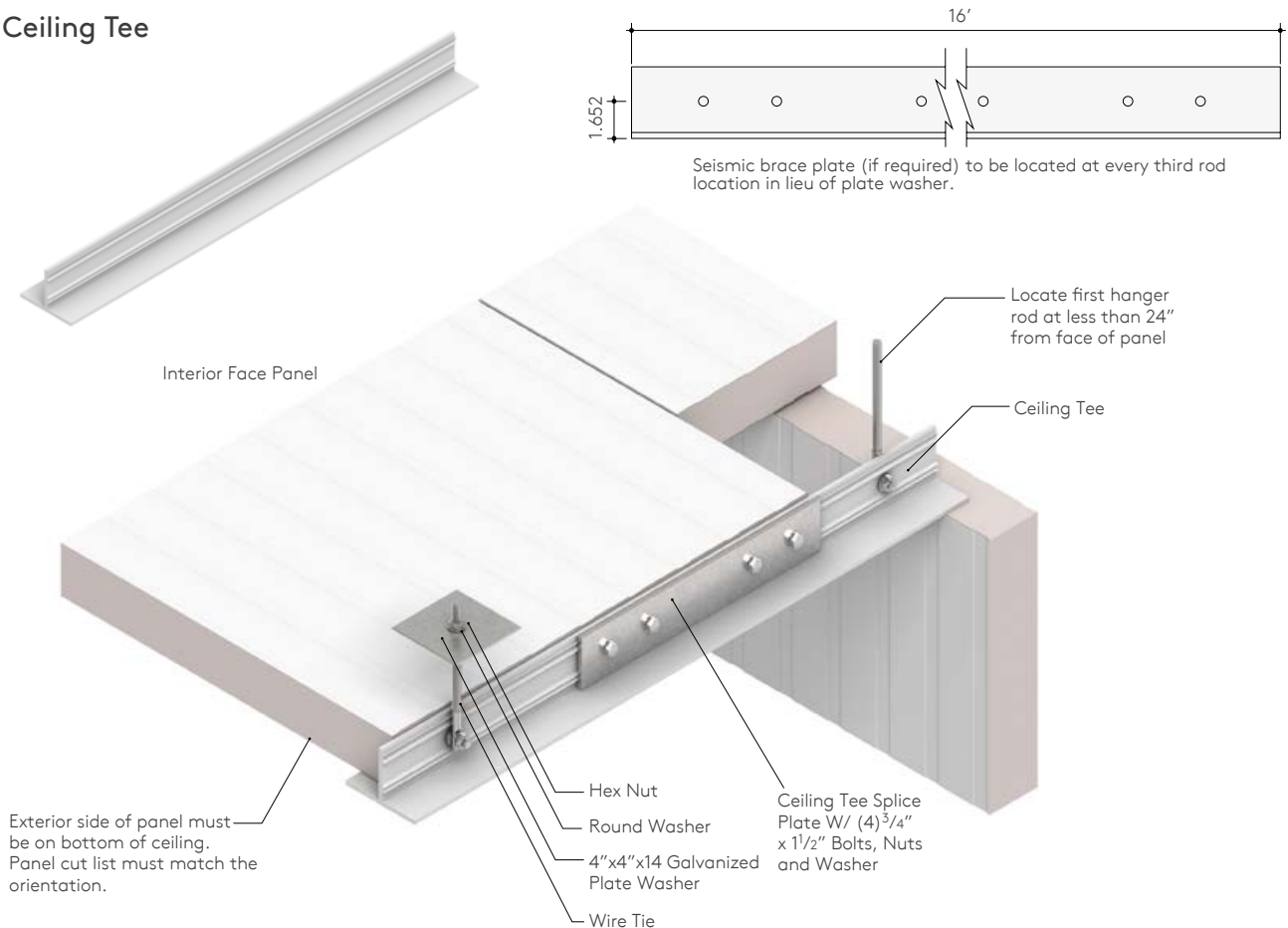
KingSeam® insulated standing seam roof panels are designed to offer design flexibility and aesthetics combined with high R-values and unparalleled service life performance. KingSeam® is suitable for new and retrofit applications across commercial, industrial and institutional market sectors.

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 at eaves and end laps
R-value:	≈ 7.1 per inch per ASTM C518 @ 75°F mean temperature ≈ 8.1 per inch per ASTM C518 @ 35°F mean temperature



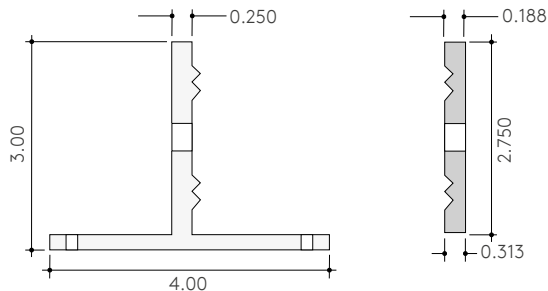
Suspended Ceiling Assembly

Ceiling Tee



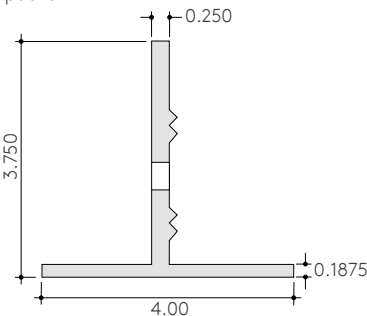
Standard Tee Support

Designed for 10psf Non-Accessible load.
6063-T6 Alloy
Pre-drilled
16'-0" White and Bare Options



Heavy Duty Tee Support

Designed for 25psf Accessible and Walkable.
6063-T6 Alloy
Pre-drilled
16'-0" White and Bare Options



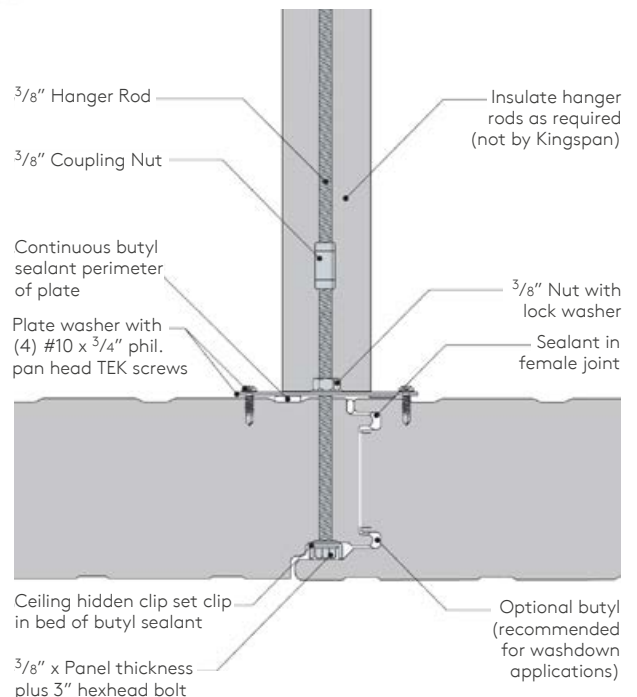
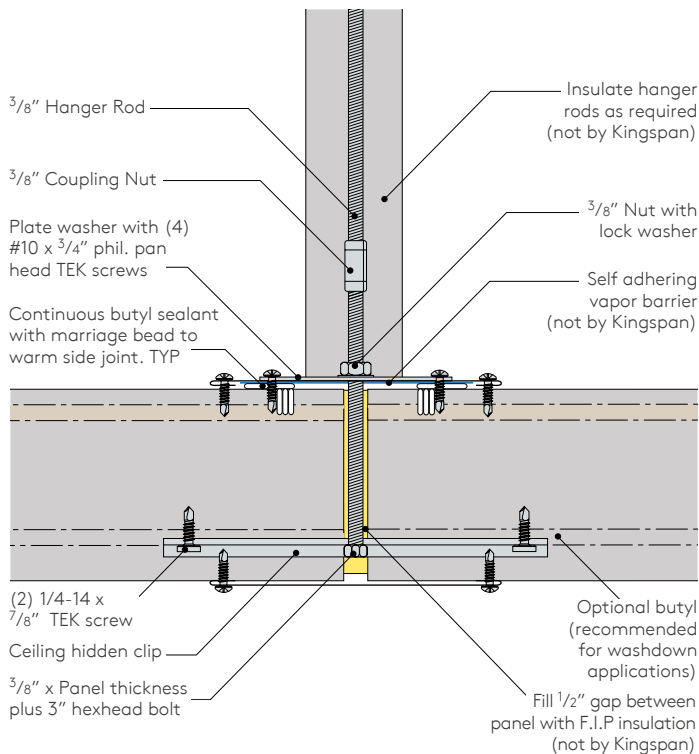
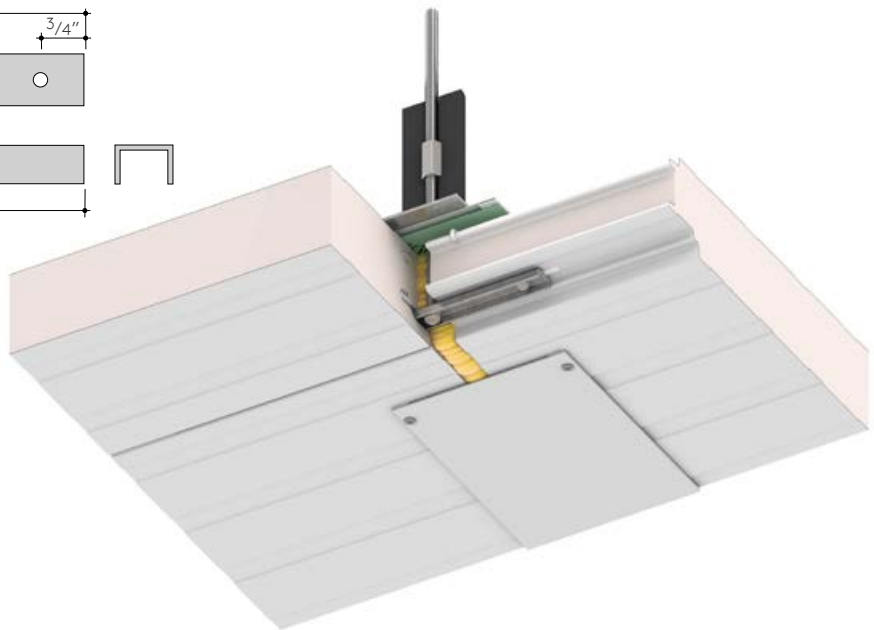
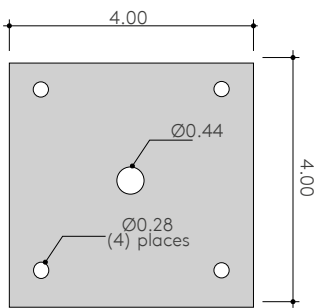
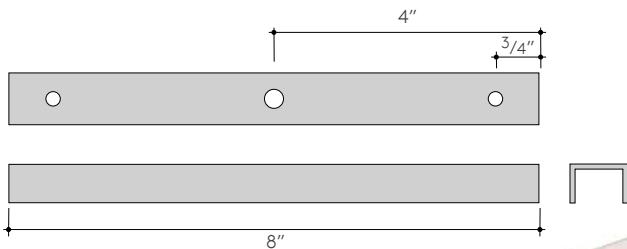
Suspended Ceiling Assembly

Concealed Ceiling Clip Assembly

Tested 25psf Walk on design @ 6'-0" Rod Spacing

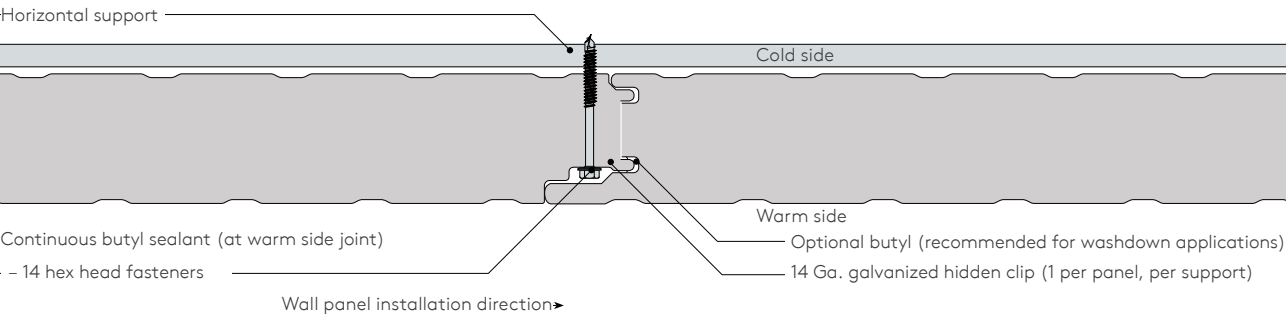
Standard 10psf non-accessible at 12'-0" Rod Spacing

Supplemental to any Tee Support system for flexibility and project restraints.



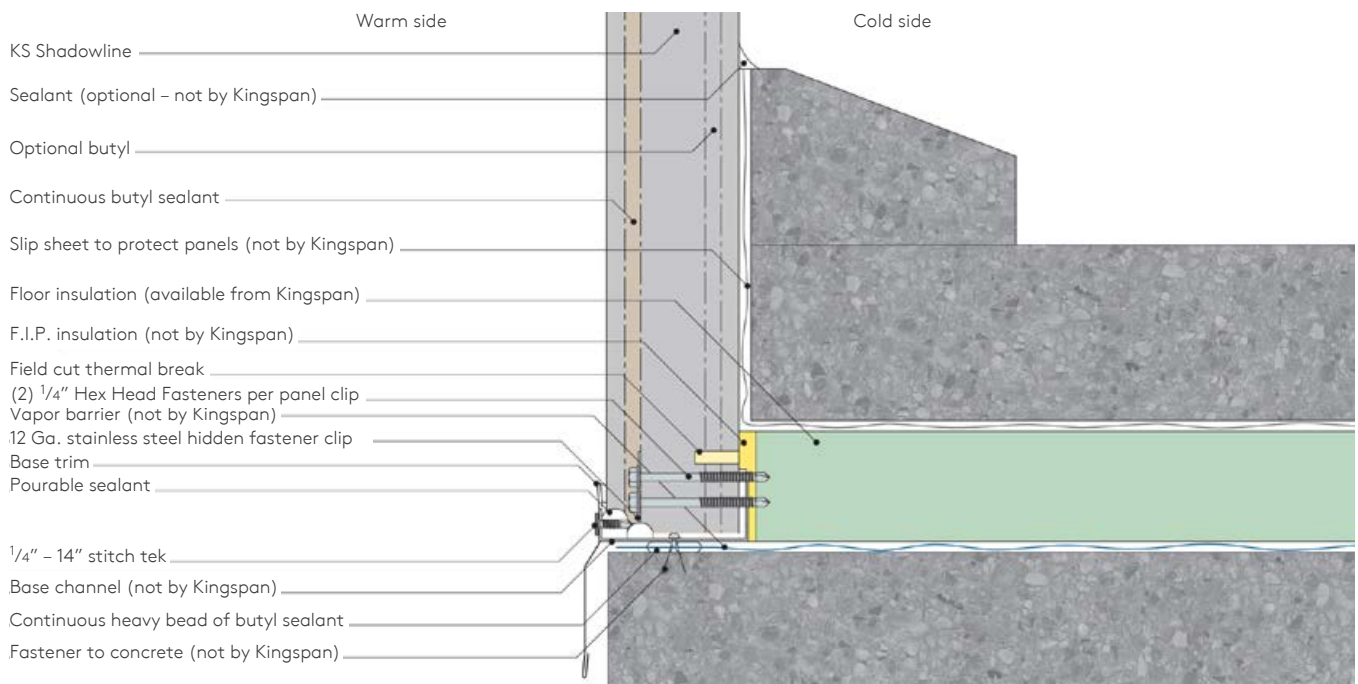
Construction Details

KS Shadowline Engaged Panel Joint



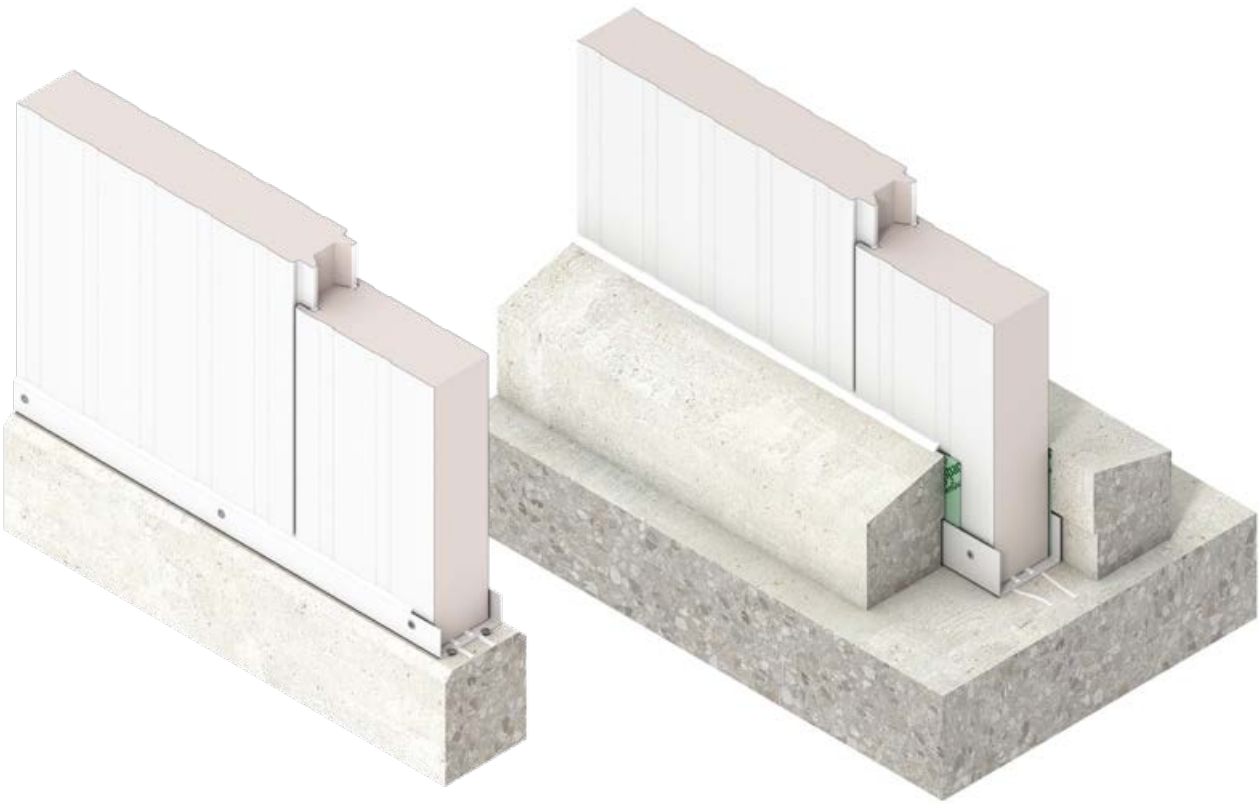
Construction Details

KS Shadowline Base with Insulated Slab

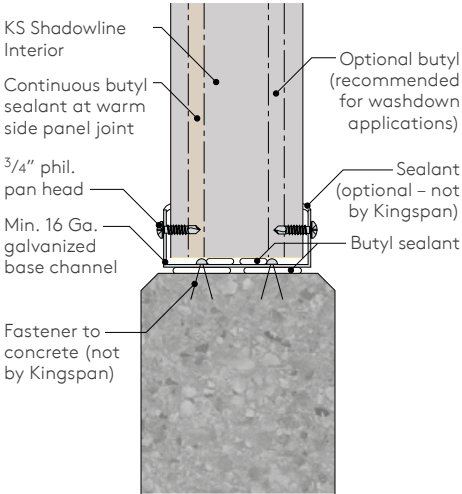


Construction Details

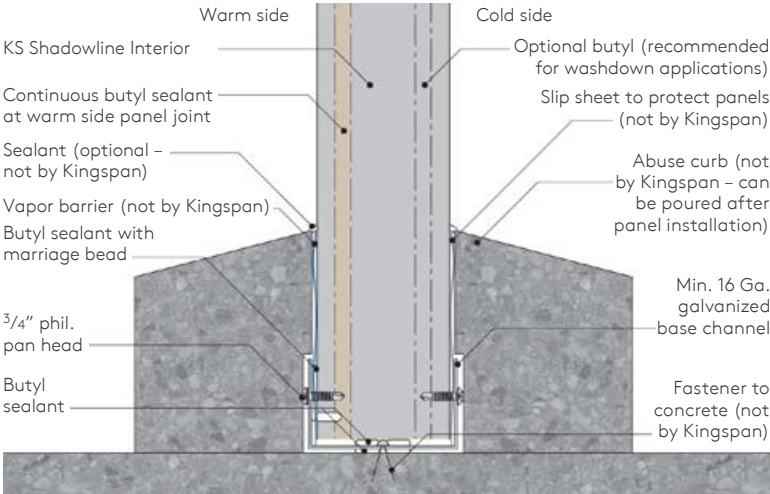
KS Shadowline Partition Base



On top of curbs

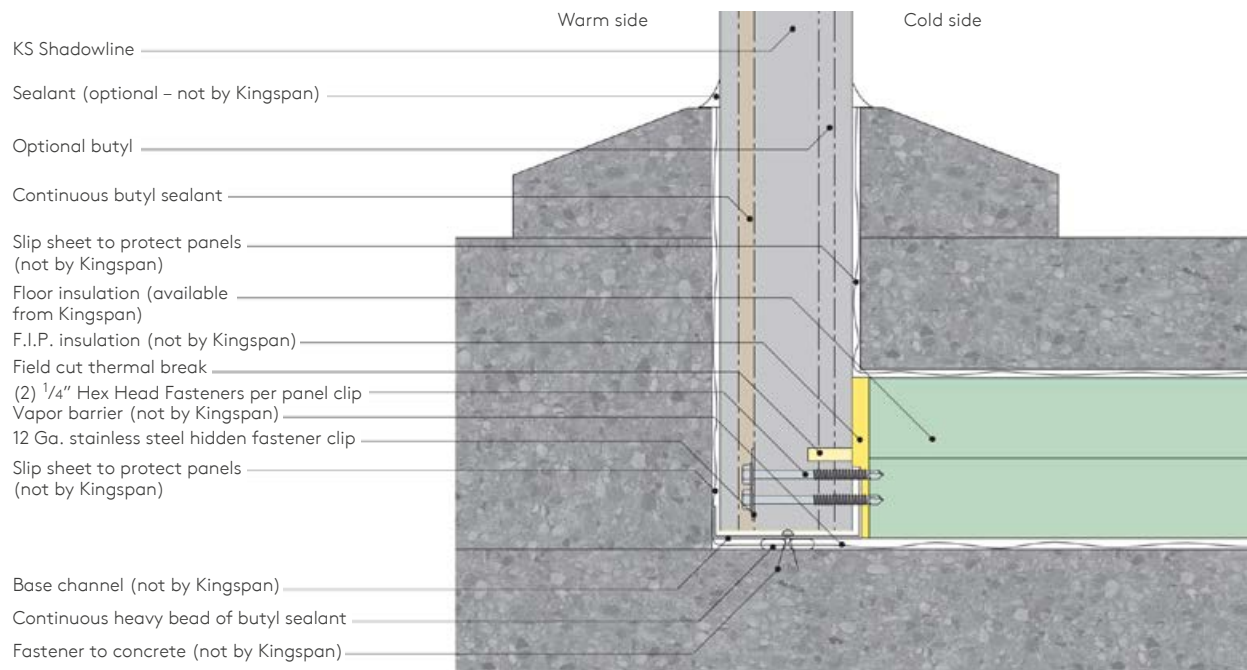


With curbs



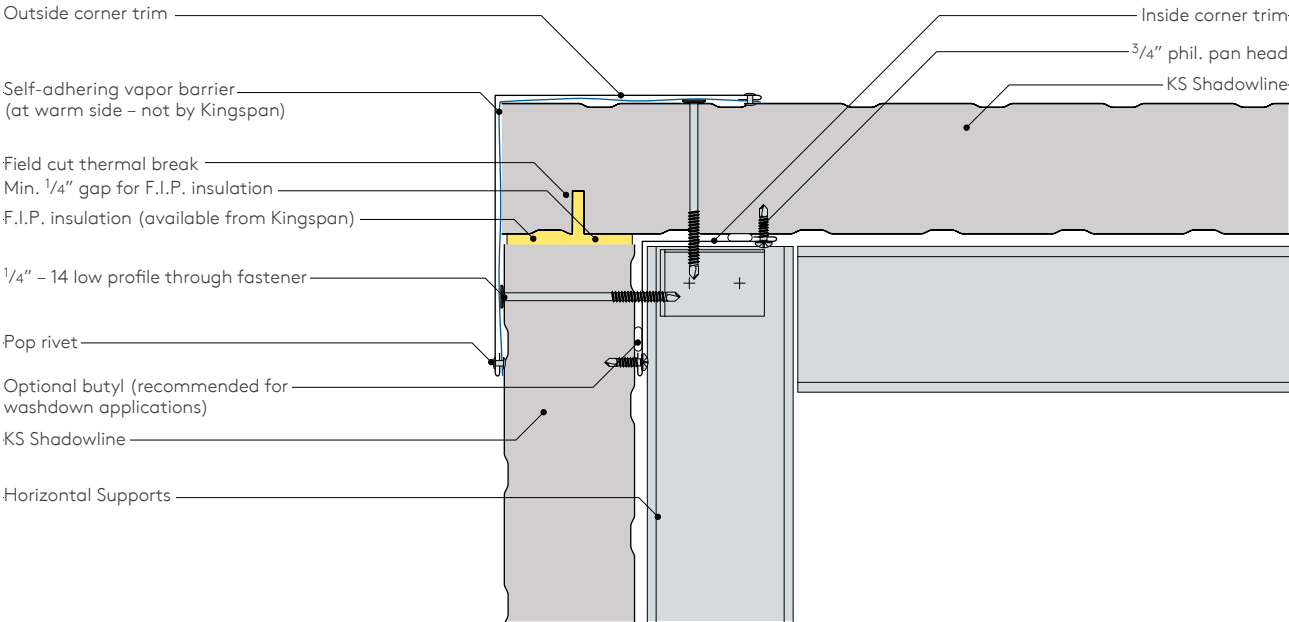
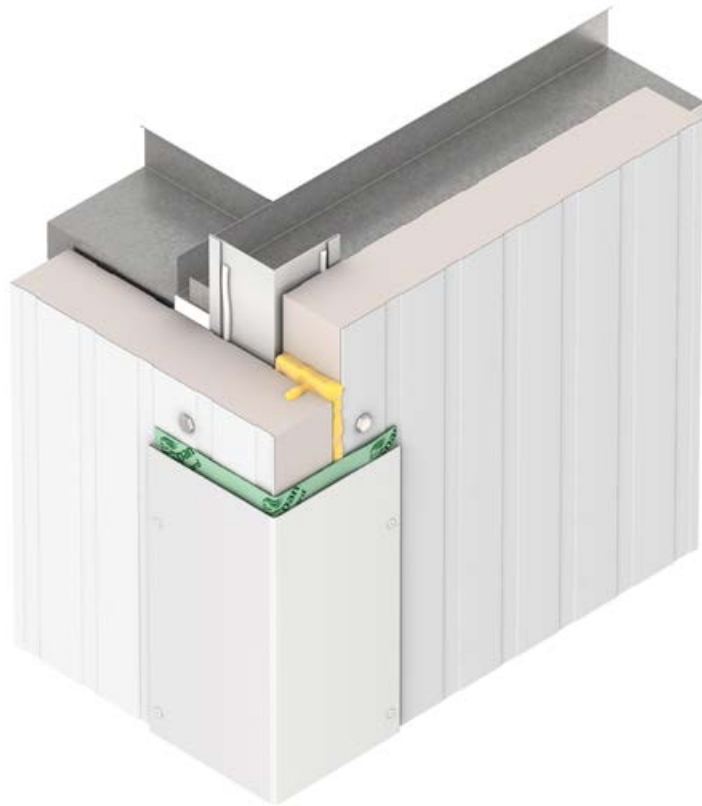
Construction Details

KS Shadowline Partition Base



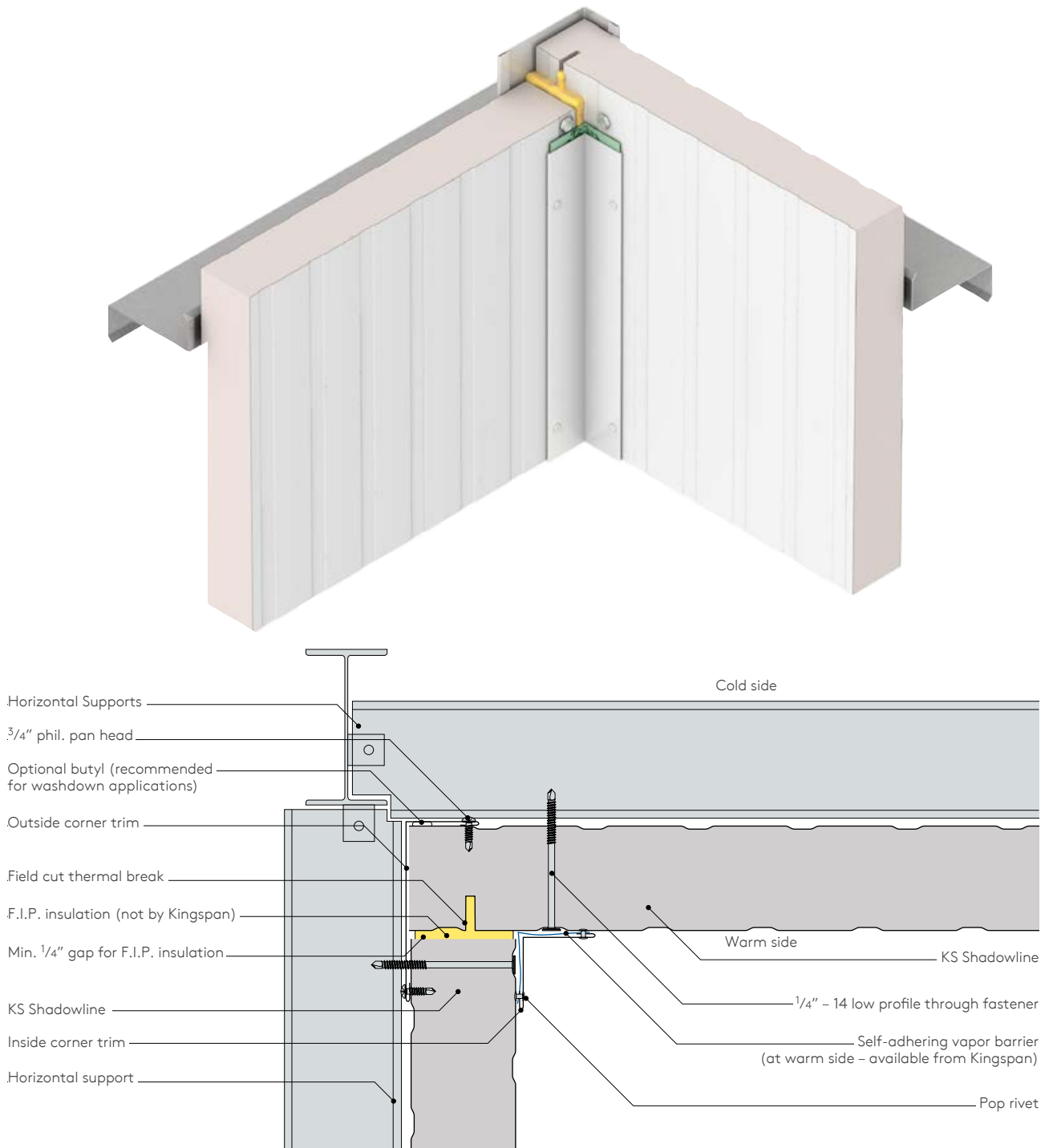
Construction Details

KS Shadowline Outside Corner Flush Trim



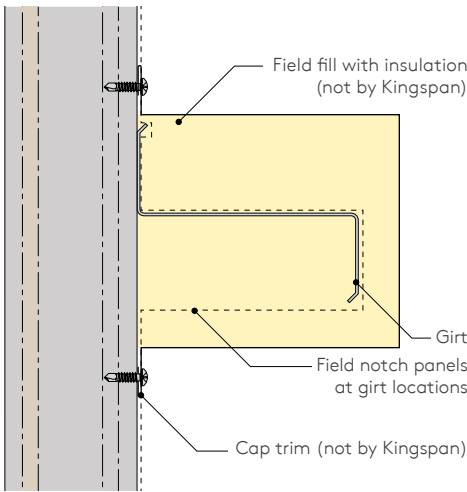
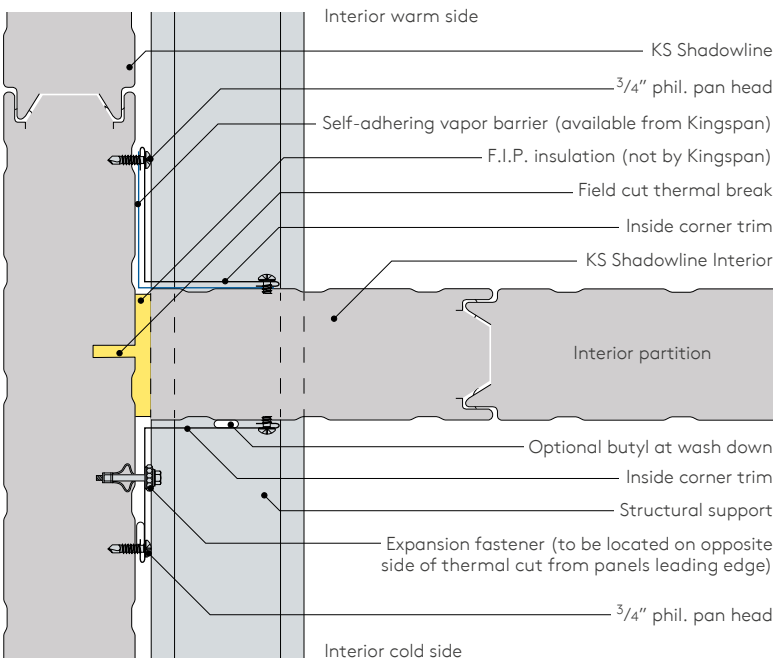
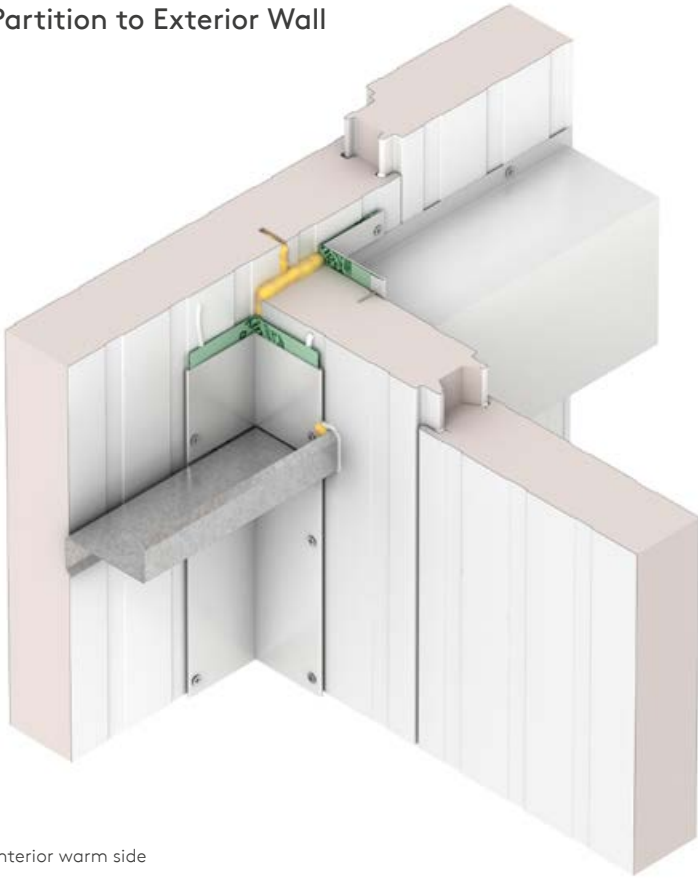
Construction Details

KS Shadowline Inside Corner Flush Trim



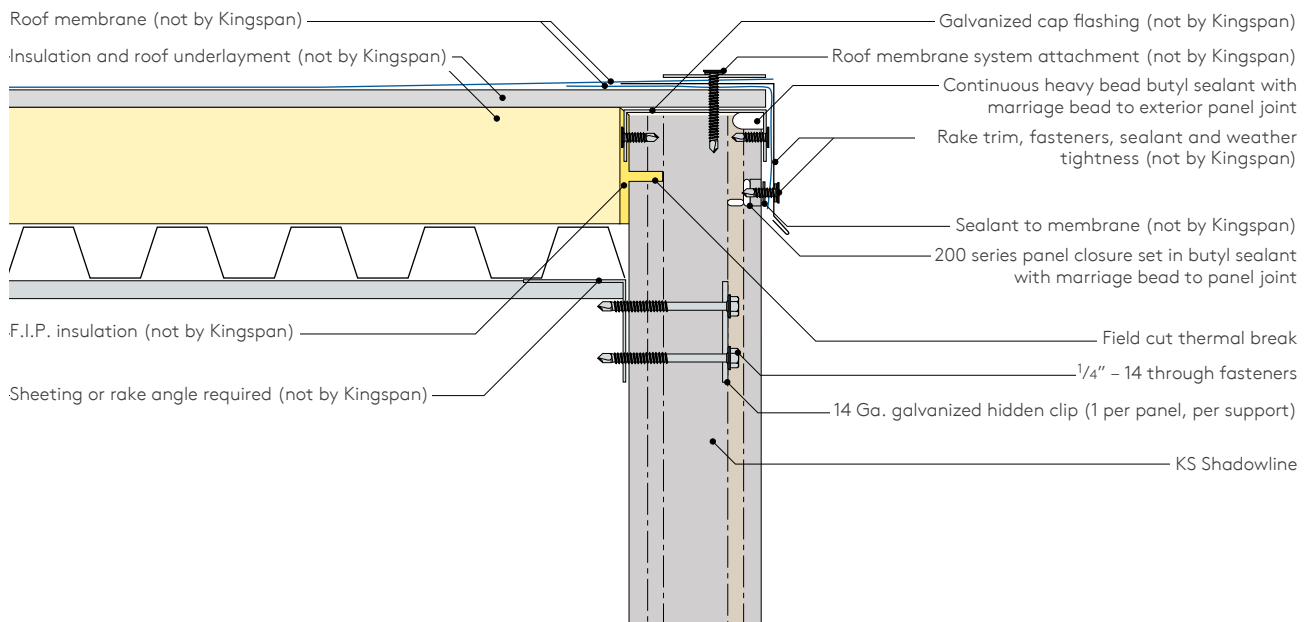
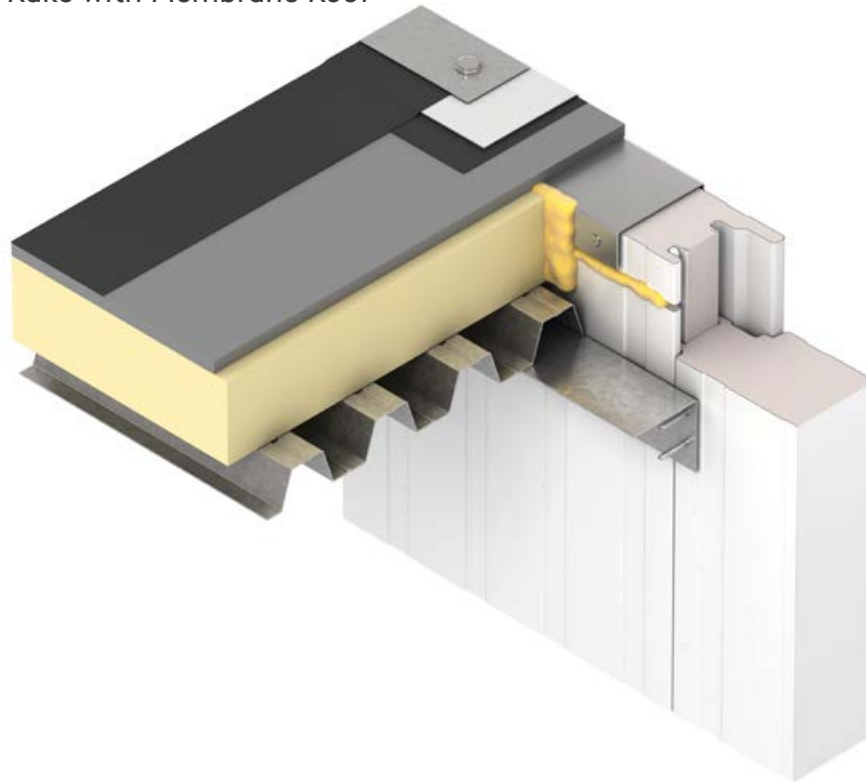
Construction Details

KS Shadowline Interior Partition to Exterior Wall



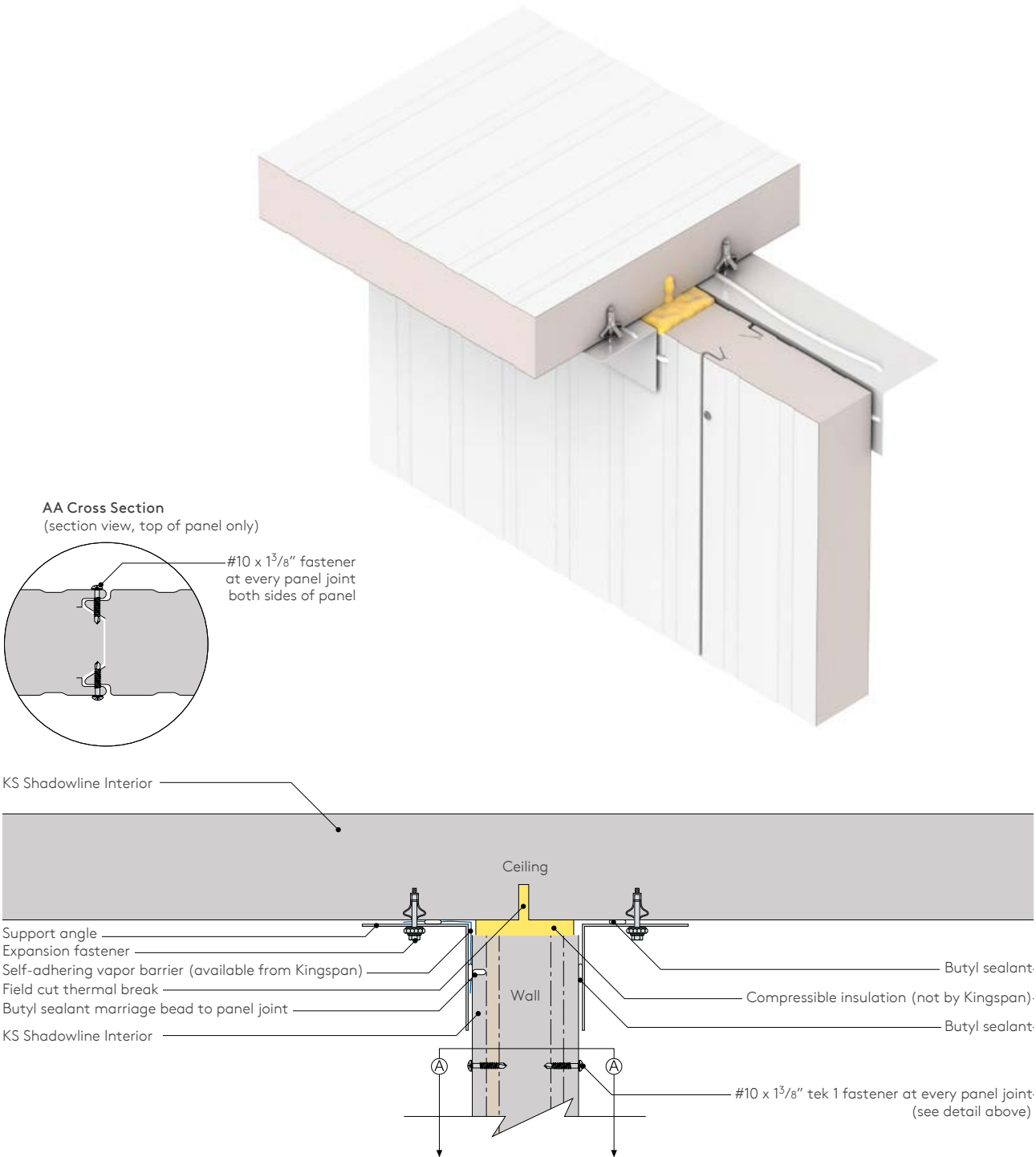
Construction Details

KS Shadowline Rake with Membrane Roof



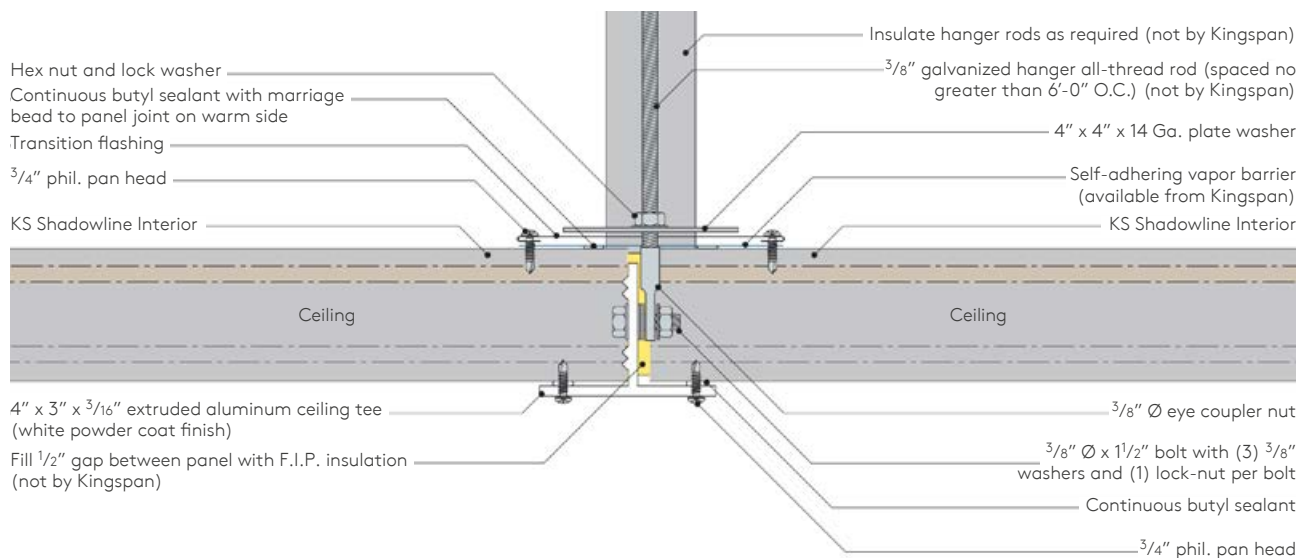
Construction Details

KS Shadowline Interior Wall to Ceiling Intersection



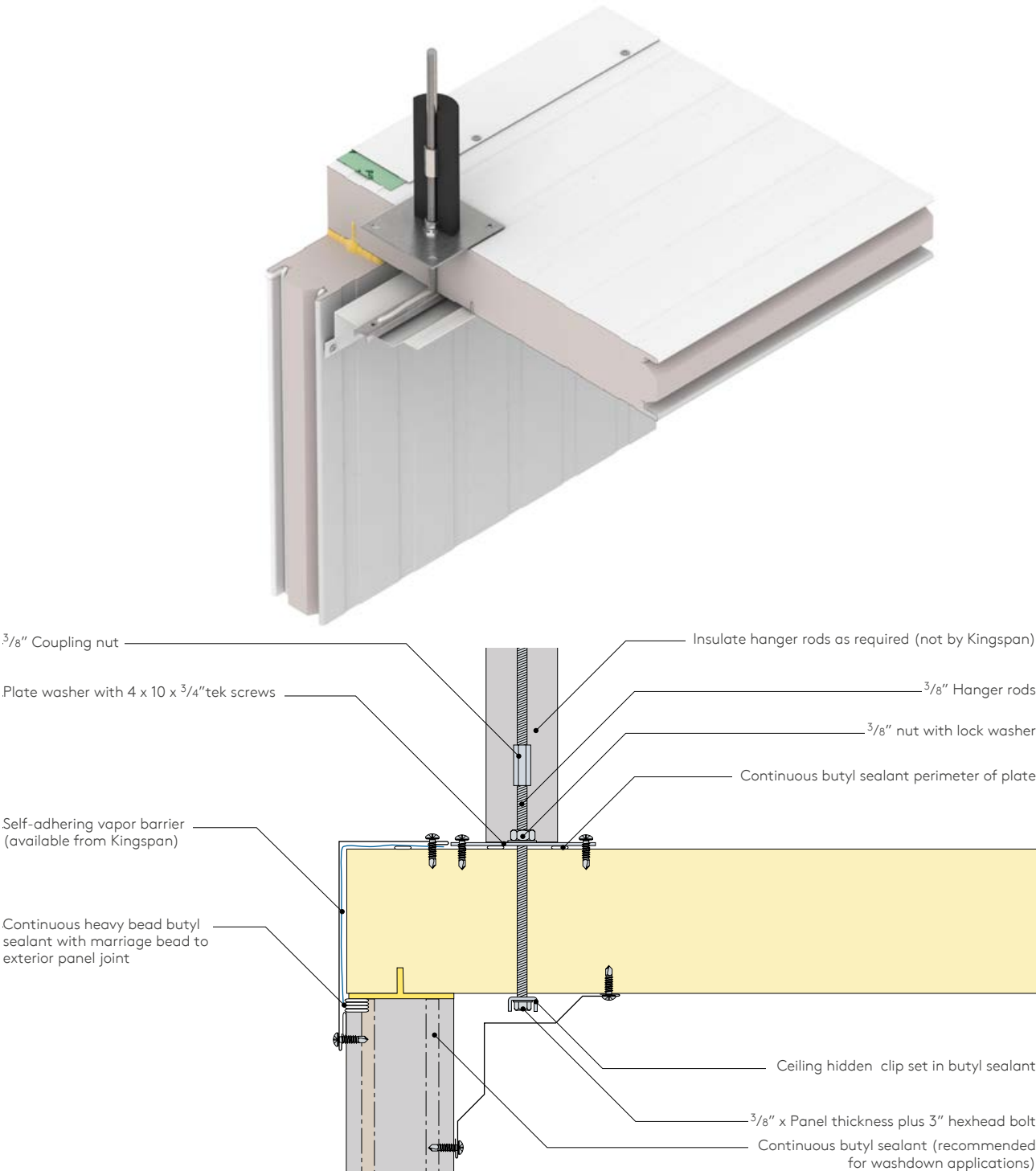
Construction Details

KS Shadowline Interior Ceiling Tee



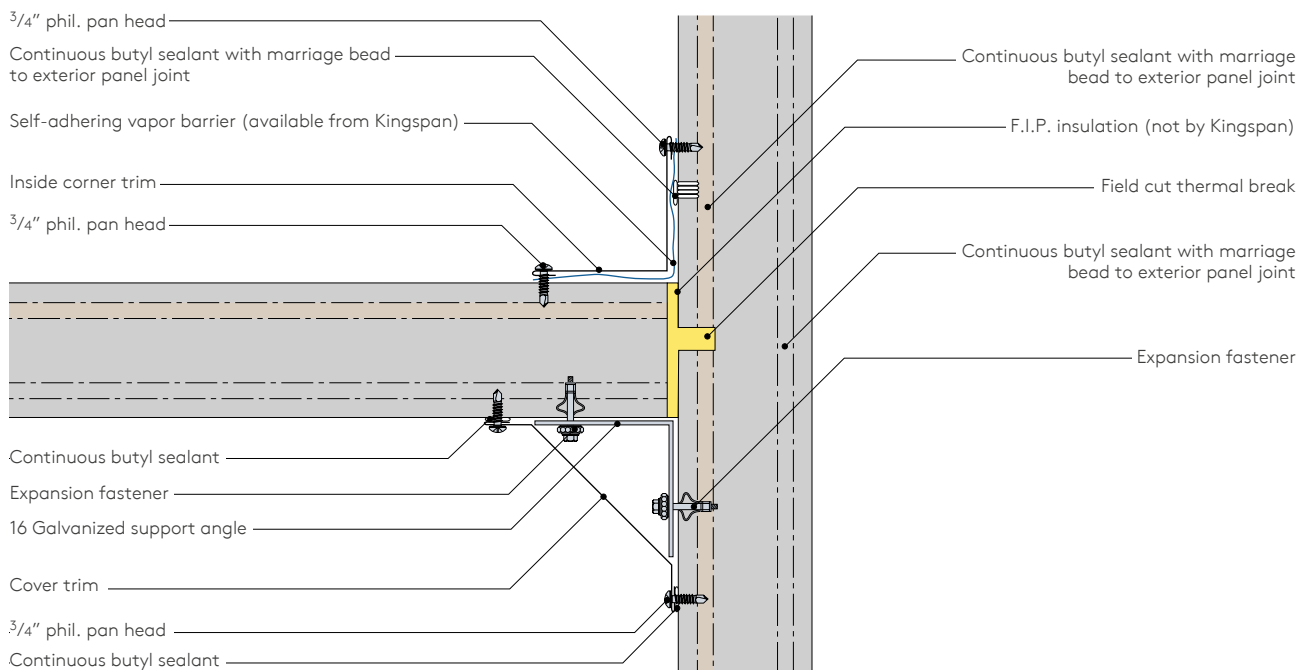
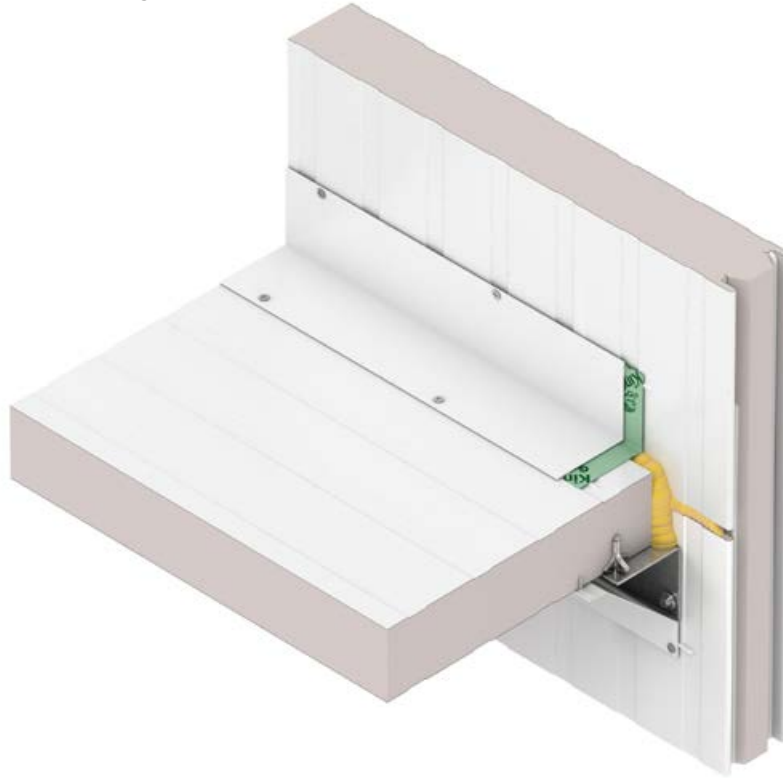
Construction Details

KS Shadowline Ceiling Hidden Clip Wall to Roof



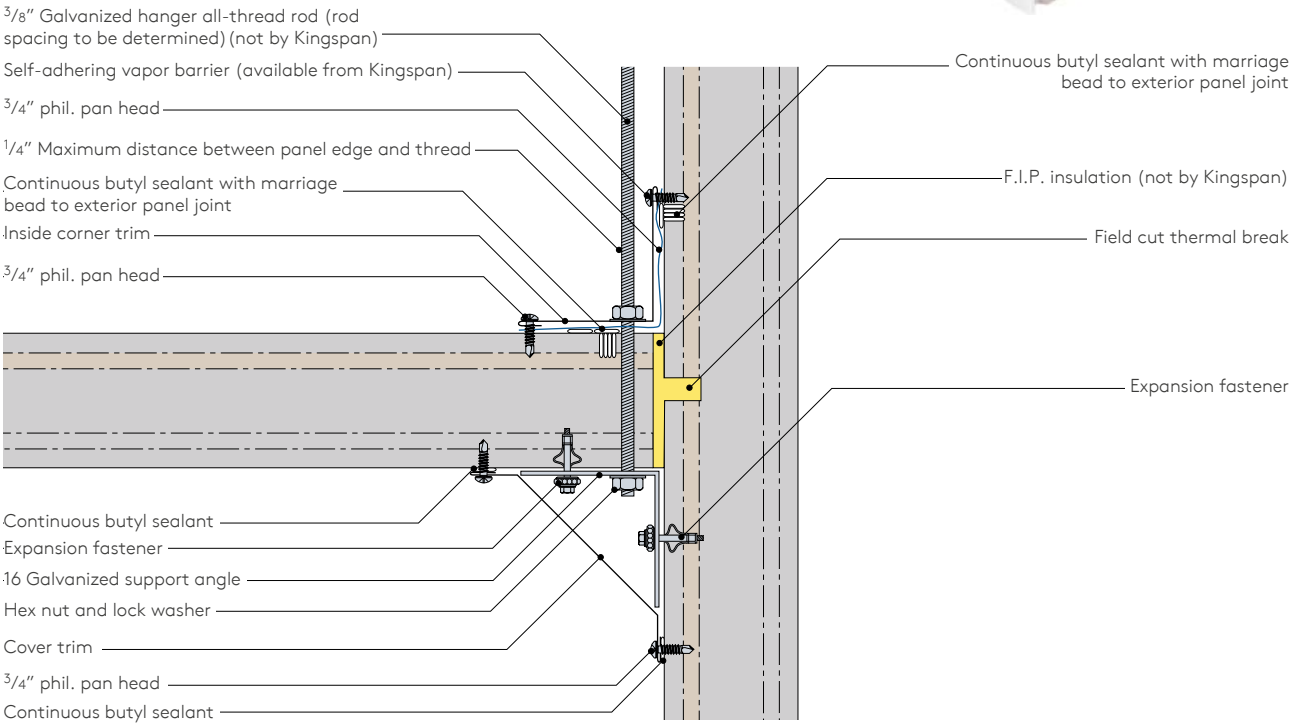
Construction Details

KS Shadowline Ceiling to all Longitudinal



Construction Details

KS Shadowline Ceiling to Wall Transverse



Supplementary Products

Our Insulation Board Offerings



XPS Type IV 30 psi Board

Kingspan GreenGuard Type IV 30 psi Insulation Board comprises 1" to 3" thick closed-cell polystyrene (XPS) with a minimum compressive strength of 30 psi. It has high water resistance and an R-value of 5.0 per inch of thickness. It is available in a square edge board, ship-lap edge board or score-board. XPS insulation is lightweight, easy to handle, and easy to cut with a knife. It meets and exceeds all Type IV and Type X specifications.

Suitable for normal loading situations, including Cold Storage floors.

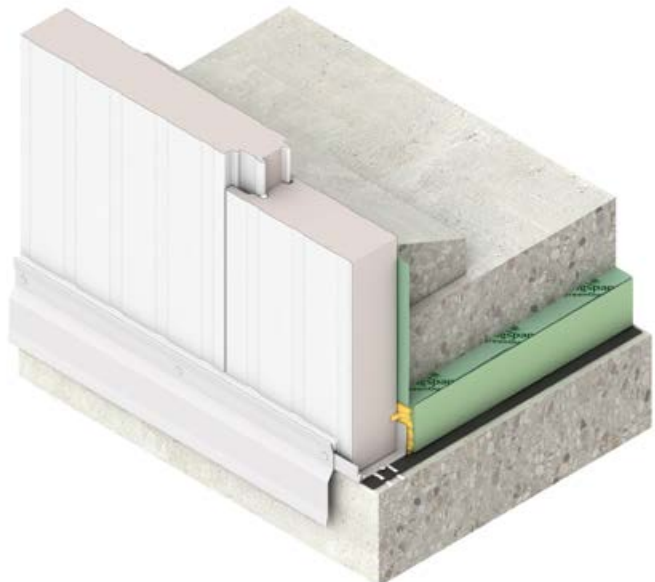
XPS Type VI 40 PSI Board

Type VI 40 PSI Insulation Board is designed for use in high load applications requiring compressive strength up to 40PSI. It meets ASTM C 578 Type VI requirements.

Designed for high load situations, like low-temperature freezer floor applications, and rack loaded cold storage facility floors.

XPS Type VII 60 PSI Board

Insulation Board comprises closed-cell extruded polystyrene (XPS) with a minimum compressive strength of 60 psi. For use as insulation for high load-bearing engineered applications requiring 60 psi minimum compressive strength, ASRS High Rise Cold Storage facilities.



Supplementary Products

Controlled Environment Door Systems

Hercules® Cold Storage Doors has been a leader in the industry for over 64 years.

Our engineering staff has the capability to design doors to meet the specific design criteria of your projects. The proven performance and customer satisfaction of the Hercules® product line is worldwide. Hercules® specializes in custom designed door products for the cold storage, controlled environment, food and beverage processing /distribution, and pharmaceutical industries.

The Hercules® Door offers a complete line of specialty doors for your specific applications including Blast Freezer, Freezer, Cooler, Docks, Processing, Ripening Rooms, Automotive Test Cells, Research Facilities, and Distribution Facilities. With more than a dozen different designs, Hercules® has the door to suit your climate controlled needs.

For the complete cold storage building envelope, use Kingspan Insulated Wall and Roof panels along with Hercules® doors.

Our insulation material consists of foamed-in-place urethane modified isocyanurate, in thicknesses of 4" and 6" equating in R values as high as 49.

In an effort to continuously improve our services, please understand that we reserve the right to modify our products and details based on our professional review of each specific application. This ensures that the products you receive are truly premium quality.



TESTED & APPROVED



BUILDING
CERTIFICATION &
GREEN TARGETS



INDOOR
ENVIRONMENTAL
QUALITY



LIFE-CYCLED BENEFITS

Supplementary Products

Standard Product Line

We refer to these door models as 'standard' because they happen to be our most popular designs. They are basic operating designs, because every Hercules® Door is custom built. Adding custom features to suit specific applications or difficult locations is part of the individualized service we are proud to offer at Hercules® Doors.



Vertical Lift Door

- Ideal for applications where there is minimum side room, or when several door openings are close together
- Suitable for drive-thru traffic in conjunction with forklifts and other freight transfer vehicles
- Available with electric or manual operation
- Double vertical lift door is also available if head room is limited to slightly more than half the door height



Infitting / Overlap Hinged Door

- Designed for use in environmentally controlled buildings such as freezers and coolers where only hand truck and personnel movement is necessary
- Suitable for both interior and exterior applications
- Available as a two-panel or 'double' hinged door for larger openings



Bi-Parting Horizontal Sliding Door

- Ideal for applications where fast opening and closing is important, especially in areas where material handling equipment such as forklifts and pallet jacks operate
- Suitable for coolers, freezers, warehouses and industrial buildings
- Available with electric or manual operation



Horizontal Sliding Door

- Utilized for both pedestrian and material handling traffic, this design is perfectly suited for applications where space limitations restrict the use of swinging doors, or when installation space is available only on one side of the door opening
- Most suitable when opening speed is not of great importance
- Available with electric or manual operation

Notes

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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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