KNAUF SECUROCK® GLASS-MAT SHEATHING (TILE BACKER SYSTEM)

KNAUF

Build on us.

HISTORY AND TECHNOLOGY

The industry is progressing. Innovative developers and architects are now specifying drywall construction for internal walls and, increasingly, external ones as well. Gypsum-based drywall products and systems were developed in the US from the early 1900s, and have been the predominant residential construction method in North America, Australasia, and Europe for decades.

For over 90 years, Knauf has led the building industry in drywall innovation. Over time, Knauf Sheetrock®, Securock®, Durock®, and Fiberock® have become the standard for the highest-quality and best-performing walls and ceilings.

Leading the way in translating our customers' needs into innovative solutions, Knauf's Glass-Mat portfolio encompasses a range of applications from wet area to sheathing, delivering the quality, strength, and ease of use that contractors, builders and dealers need.

Offering one of the region's largest selling, broadest line of interior and exterior panels, Knauf's range of products exceed the essential requirements of performance, safety, efficiency, workability, strength, and ease of decoration to achieve top quality construction.

Beyond outstanding products, we also offer expertise, technical support, and Asia Pacific-wide distribution. All driven by a dedication to find solutions for you. We do all of this to contribute in improving the lives of our employees, customers, and communities.

When you succeed, we succeed. Your exceptional work, combined with our solutions, would bring new levels of performance, enabling you to create the spaces where people live, work, and play.

PRODUCT PORTFOLIO

Knauf Securock® Glass-Mat Sheathing Interior and Exterior Applications

Wet Area Walls

Knauf Securock® Glass-Mat Sheathing board is designed for wet area applications. With our technology, we are redefining the expectations of what could be achieved in wet and humid conditions.

Knauf Securock® Glass-Mat Sheathing

Ceilings

Knauf Securock® Glass-Mat Sheathing board is designed for interior and exterior ceilings. We understand your requirements in areas exposed to weather and moisture and we offer a wide range of levels of finishing to meet the highest standards.

Knauf Securock® Glass-Mat Sheathing

Semi-Exposed Exterior Walls

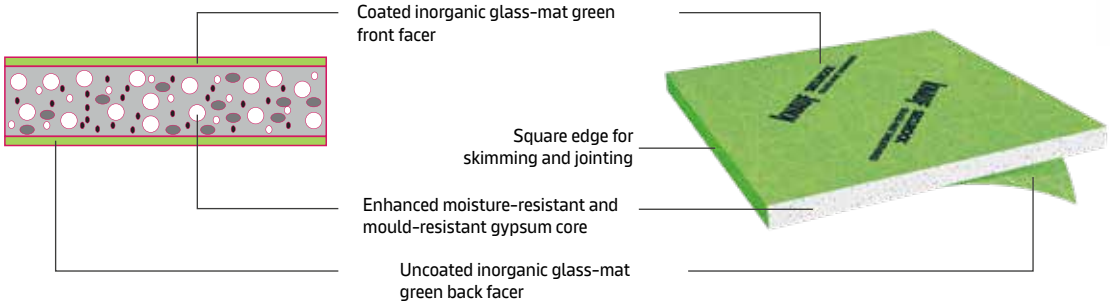
Knauf has a high performance Securock® Glass-Mat Sheathing board ideal for semi-exposed exterior wall applications.

Knauf Securock® Glass-Mat Sheathing

PRODUCT FEATURES AND BENEFITS

Knauf Securock® Glass-Mat Sheathing

Glass-Mat board with enhanced moisture-resistant and mould-resistant gypsum core, with a coated non-woven inorganic green front facer and an uncoated inorganic green back-mat facer. Non-combustible, moisture-resistant and mould-resistant high-performance panels for wet areas, tile backing, and semi-exterior applications. The glass-mat facers repel water and feature square edges.



Feature	Description
Thickness	12.7mm (1/2") and 15.9mm (5/8")
Weight	10.9kg/m^2, and 13.6kg/m^2
Width	1220mm (4')
Length	2440 (8')
Edges	Square edges

*Up to 3600mm length by special orders.
*Please refer to your Knauf representative for other board sizes.

Application Fields

Walls

- Tile backer for walls in public showers and bathroom areas for commercial and residential projects
- Non-tile walls with high moisture and mould requirements
- Semi-exposed exterior walls

Ceilings

- Wet area ceilings
- Industrial kitchen celings
- Swimming pool ceilings
- Exterior ceilings

Benefits

Moisture-Resistant and Mould-Resistant

- Mould-resistant: Scores a 10 (highest) when tested in accordance with ASTM D3273
- Moisture-resistant: Specially engineered core for optimum water repellency and anti-sagging performance
- Patented Mold Tough® technology

Meets Industry Standard

- Non-combustible per EN 15283-1, A1 per EN13501-1
- Complies with ASTM C1658 Section 7 and ASTM C1177
- Meets the requirements of ASTM C1178 part 5.2.5
- Type H1 according to EN 15283-1

Quick Installation

- Simple score-and-snap, with no sawing or special tools required.

Exposure

- Can be exposed to limited weather for up to 12 months after installation in its interior and exterior applications.
- The product should be covered by the recommended interior or semi-exposed exterior wall and ceiling.

Finishing

- Supports tiling up to 75kg/m2.
- Level 5* can be achieved for paint finishing.
- Exceeds requirements for both cementitious and acrylic adhesives per ASTM C297 and BS EN 12004.

NOTE:
- ASTM D3273 - Standard Test Method for Resistance to Growth of Mould on the Surface of Interior Coatings in an Environmental Chamber
- EN 15283-1 - Gypsum boards with fibrous reinforcement. Definitions, requirements and test methods. Gypsum boards with mat reinforcement
- EN 13501-1 - Fire test to building material
- ASTM C1658 - Standard Specification for Glass Mat Gypsum Panels
- ASTM C1177 - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
- ASTM C1178 - Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel
- ASTM C297 - Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
- BS EN 12004 - Adhesives for ceramic tiles. Requirements, assessment and verification of constancy of performance, classification and marking

SINGAPORE GREEN BUILDING PRODUCT SGBC EXCELLENT


401 - 416 >

INTERIOR AND SEMI-EXTERIOR WALLS

System Components

Metal Framing

Type	Description	Steel Grade	Base Metal Thickness	Anti-corrosion Coating	Remark
	Knauf Floor Track	G300	0.50 to 1.15mm	AZ150	Min. Yield Strength: 300 Mpa
	Knauf Metal Steel Studs	G300	0.50 to 1.15mm	AZ150	Min. Yield Strength: 300 Mpa
	Knauf Deflection Head Track	G300	0.75 to 1.15mm	AZ150	Min. Yield Strength: 300 Mpa
	Knauf Nogging Track	G300	0.75mm	AZ150	Min. Yield Strength: 300 Mpa

Screws

Type	Description	Dimension	Coating	Application	Remark
 16mm	Wafer Head Drill Point Screw	#10 - 16 x 16 (Diameter: 4.6mm)	High Corrosion Resistance Coating	■ Connection Track – Steel Stud ■ Connection Metal – Metal Bracing	–
 32mm 45mm	Exterior & Wet Area Bugle Head Needle Point Screw (GMS type S screw)	#6 - 20 x 32 and 45 (Diameter: 3.5mm)	Ruspert/ Dacromate	■ Connection Board – Steel Stud ■ For 0.50 – 0.75mm ■ 32mm for single layer walls ■ 45mm for double layer walls	Min. torsional strength: 2.7 N.m Surpasses 240 hours
 32mm 45mm	Exterior & Wet Area Bugle Head Drill Point Screw (GMS type D screw)	#6 - 20 x 32 and 45 (Diameter: 3.5mm)	Ruspert/ Dacromate	■ Connection Board – Steel Stud ■ For 0.80 – 2.00mm ■ 32mm for single layer walls ■ 45mm for double layer walls	ASTM B117: Salt Spray Test Min. torsional strength: 2.7 N.m Surpasses 240 hours ASTM B117: Salt Spray Test

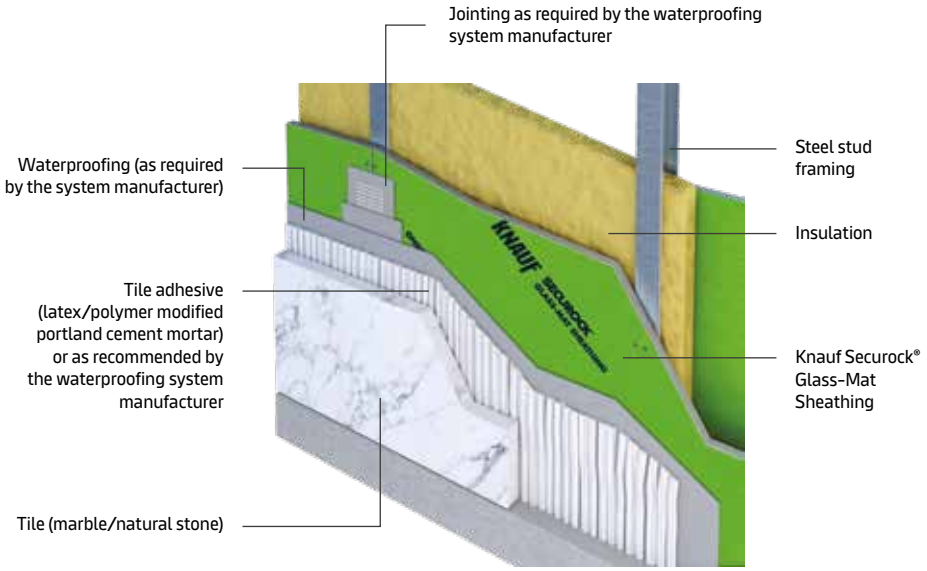
Compounds and Paper Tape

Type	Description	Dimension	Application	Remark
	Knauf Paper Joint Tape	150m x 50mm wide rolls	For joint treatment with setting type compounds for non-tile interior walls	Coverage: Approx. 112m / 93m² (370 ft. per 1,000 sq.ft.)
	Knauf Sheetrock® Durabond® 90	–	For joint treatment and full skimming coating for non-tile interior walls, and semi exposed ceilings under covered roofs such as soffits.	20kg Bag (44lb.) Setting type compound that is chemically setting powder for plasterboard interiors Working time is approximately 60 minutes Coverage: Approx. 16kg / 100m² Meet ASTM Standards C475

WALL FINISHING SYSTEMS

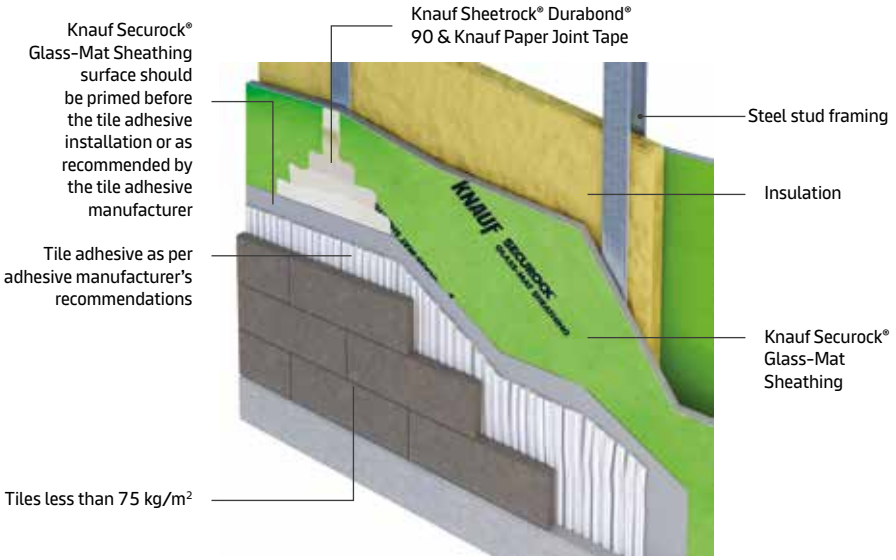
Interior Wall Tiling (Direct Water Exposure) - Shower Area

System design for wet areas that will be exposed to water with high moisture and mould requirements, like bathrooms and shower areas. Depending on the framing system and spacing, the wall could hold tiles up to 75 kg/m^2.*



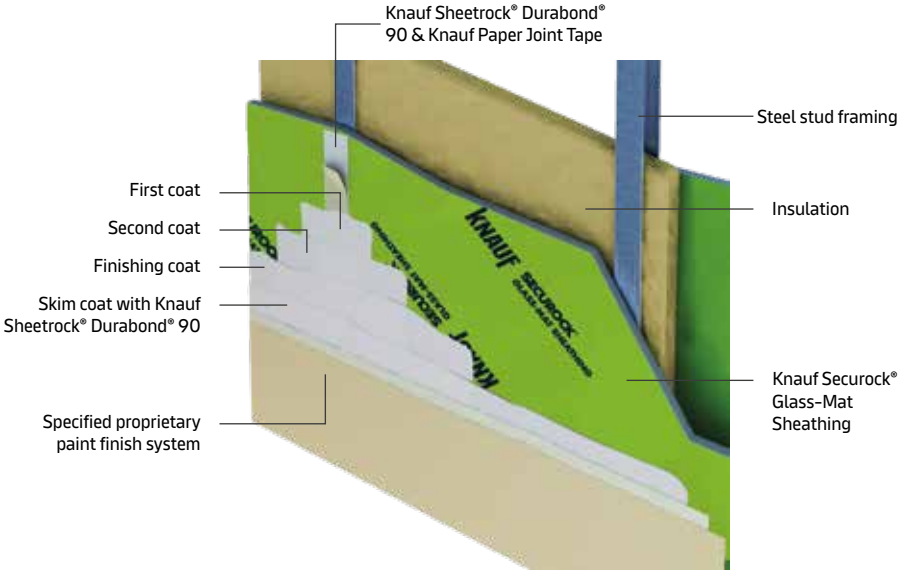
Interior Wall Tiling (Non-Direct Water Exposure)

System design for wet areas that will not be exposed to direct contact with water, like toilet and kitchen areas. For these areas, the waterproofing may not be required.



Non–tile Walls

System design for areas with high moisture and mould requirements in interior and semi-exterior walls during construction with paint finishing. Level 5 is the default level of finish unless specified otherwise.

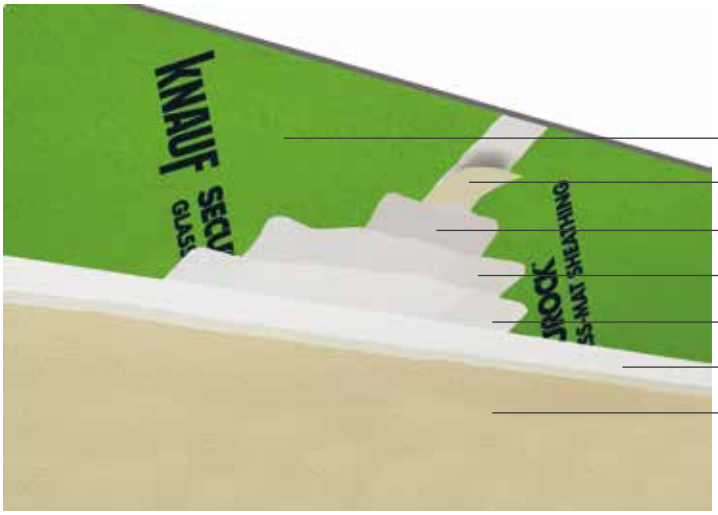


*The tile weight capability of the wall will depend on the system configuration.
*For further information, refer to the Knauf Glass-Mat Wet Area Installation Guide.

INTERIOR CEILING SYSTEMS

Wet Area Ceilings

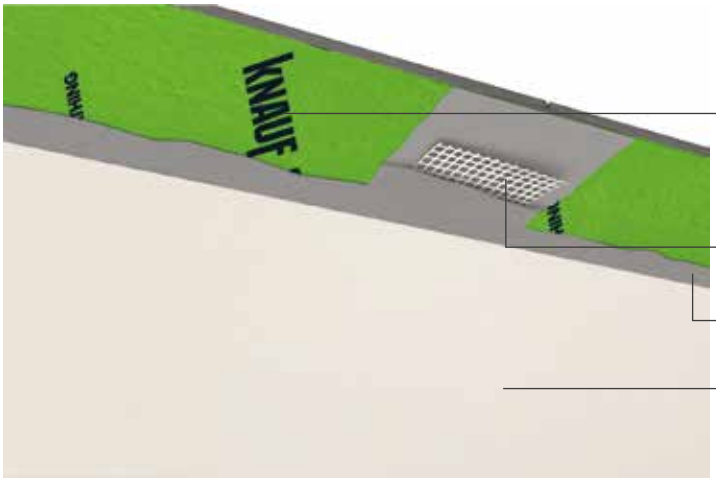
System design for wet area ceilings with high moisture and mould requirements, like bathrooms and shower areas.



Ceiling Finishing D – Wet area ceilings

Harsh Environment Ceilings

System design for more challenging environments with proprietary basecoats and coatings for more intensive cleaning and high humidity.



Ceiling Finishing E – Proprietary finishing system

Interior Ceiling Finishing

Interior Ceiling Finishing Guide Table

Category	#	Application	12.7mm GMS
Wet Area Ceilings	D	Criteria	Ideal for skimming markets Level 5** - the default level of finish Non-fire rated systems
		Edge	Square edge designed for full skimming
		Joint Treatment	Paper tape + joint treatment + full skimming layer of setting compound (Level 5)
		Finishing	Primer + 2 coats of paint finishing as recommended by the manufacturer
Harsh Environment Ceilings	E	Criteria	High moisture and mould requirement Non-fire rated system Critical light requirement Level 5 finishing is required
		Edge	Square edge designed for full skimming
		Joint Treatment	Glass fibre mesh tape + joint treatment with proprietary basecoat + full skimming layer with basecoat
		Finishing	Primer + 2 coats of paint finishing as recommended by the manufacturer

*Please refer to the finishing guidelines for ceilings included in Knauf Glass-Mat Wet Area Installation Guide and Knauf Glass-Mat Exterior Ceiling Systems

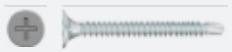
EXTERIOR CEILING SYSTEMS

System Components

Metal Framing

Type	Description	Steel Grade	Dimension	Base Metal Thickness	Anti-corrosion Coating	Remark
	Knauf Floor Track	G300	32mm (Flange) x Specified Web Width	0.50mm to 1.15mm	AZ150	Min. Yield Strength: 300 Mpa
	Knauf Metal Steel Studs	G300	5mm (Lip) x 35mm (Flange) x Specified Web Width	0.50mm to 1.15mm	AZ150	Min. Yield Strength: 300 Mpa
	Knauf SWC3 & P/N 545 Bracket	G2	SWC3: 75mm (L) x 50mm (W) x 80mm (H) P/N 545: 75mm (L) x 75mm (W) x 55mm (H)	SWC3: 3.0mm P/N 545: 1.5mm	Zinc Coating	Min. Yield Strength: 270 Mpa

Screws

Type	Description	Dimension	Coating	Application	Remark
	Anchor	M8 x 40 (Sleeve Diameter: 10mm)	Zinc	■ Connection Bracket – main structure ■ The anchor should be reviewed and approved by the structural engineer of the project	Tensile strength: 2.0kN (min.) Shear force: 3.9kN (min. at design resistance)
 16mm	Wafer Head Drill Point Screw	#10 – 16 x 16 (Diameter: 4.6mm)	High Corrosion Resistance Coating	■ Connection Track – Steel Stud ■ Connection Metal – Metal Bracing	Pull-out force: 1.16kN (20 gauge steel) Shear force: 2.51kN (20 + 20 gauge steel) Tensile strength: 6.09kN
 14mm	Hexagon Head Drill Point Screw	#12 – 14 x 20 (Diameter: 5.5mm)	Zinc	■ Connection Bracket – Steel Stud	Pull-out force: 1.3kN (20 gauge steel) Shear force: 2.67kN (20 + 20 gauge steel) Tensile strength: 10.34kN
 32mm  45mm	Exterior & Wet Area Bugle Head Needle Point Screw (GMS type S screw)	#6 – 20 x 32 and 45 (Diameter: 3.5mm)	Ruspert/ Dacromate	■ Connection Board – Steel Stud ■ For 0.50 – 0.75mm ■ 32mm for single layer ceilings ■ 45mm for double layer ceilings	Min. torsional strength: 2.7 N.m Surpasses 1000 hours ASTM B117: Salt Spray Test
 32mm  45mm	Exterior & Wet Area Bugle Head Drill Point Screw (GMS type D screw)	#6 – 20 x 32 and 45 (Diameter: 3.5mm)	Ruspert/ Dacromate	■ Connection Board – Steel Stud ■ For 0.75 – 1.15mm ■ 32mm for single layer ceilings ■ 45mm for double layer ceilings	Min. torsional strength: 2.7 N.m Surpasses 1000 hours ASTM B117: Salt Spray Test

Compounds and Paper Tape

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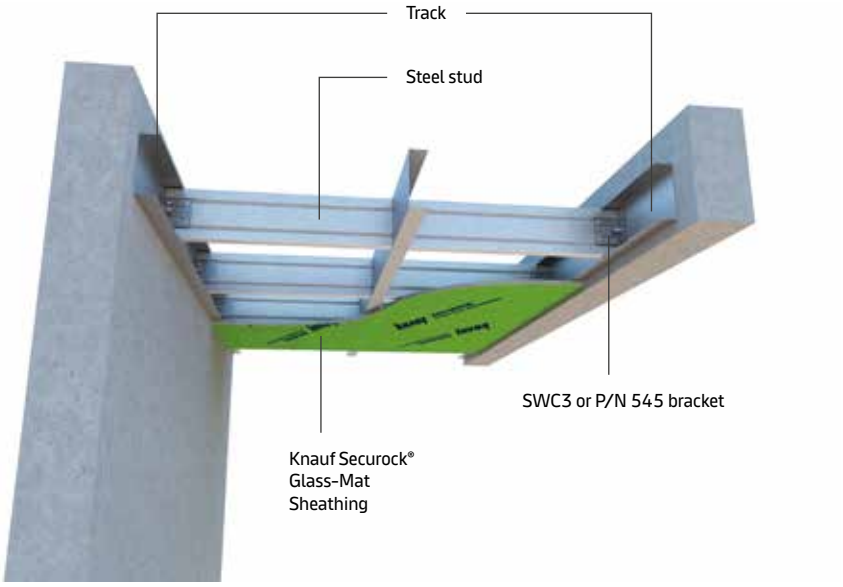
	Knauf Paper Joint Tape	150m x 50mm wide rolls	For joint treatment with setting type compounds for non-tile interior walls	Coverage: Approx. 112m / 93m^2 (370 ft. per 1,000 sq.ft.)
	Knauf Sheetrock® Durabond® 90	–	For joint treatment and full skimming coating for non-tile interior walls, and semi exposed ceilings under covered roofs such as soffits.	20kg Bag (44lb.) Setting type compound that is chemically setting powder for plasterboard interiors Working time is approximately 60 minutes Coverage: Approx. 16kg / 100m^2 Meet ASTM Standards C475

TYPES OF SYSTEMS

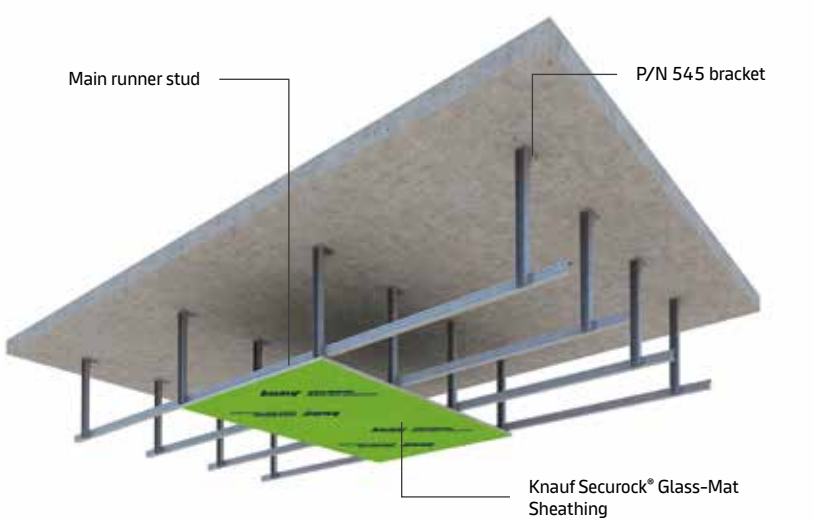
Small Area Ceilings (Typically < 3.0m Span)

Ceiling system design to be installed without hangers and for single span applications. Ideal for small areas such as soffits, balconies, exterior corridors, and porches.



Large Area Ceilings (Typically > 3.0m Span)

Ceiling system design for multiple span applications and for larger ceiling areas such as hotel lobby, casino entrance, building foyer, and transportation hub.



*For further information, refer to the Knauf Exterior Ceiling Systems.

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