Ray Magic® submittal SL submittal

Job_____ Designer_____ Contact_____

Ray Magic® Quad Gypsum (QG) are 24"x24" high performance radiant ceiling tiles for commercial suspended ceiling grid system.
It incorporates heating and cooling in a unique hydronic solution of high-end aesthetic, thermal and acoustic comfort, and energy saving. Ray Magic Quad Gypsum panels are available with hydronic serpentine (active) or without radiant activation (blank). Panels are available with different surface finishing including the Certanteed Gyptone perforated acoustical tiles..

Technical specifications

Model

Ray Magic Quad Gypsum 24"x24"

Features

Quick installation

High heating and cooling performance

Sound absorption (with Gyptone perforated tiles only)

Different tiles available with different perforation pattern (with Gyptone perforated tiles only)

Smooth, paintable surface simplifies installation and maintenance, ensuring long, sustainable life

Competitive price compared to wood and metal ceiling tiles

Suspension system

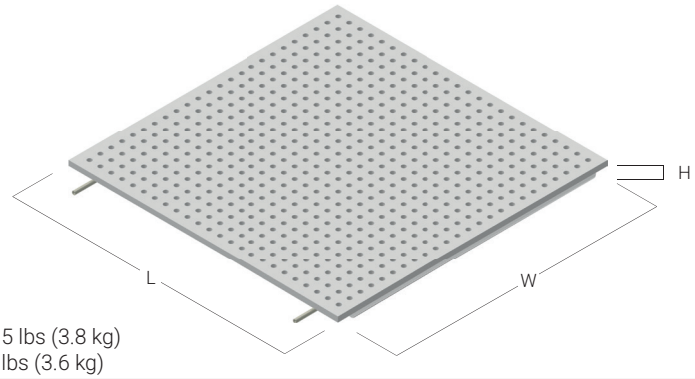
Ceiling grid 2'x2'

Edge profiles

Trim Edge (CertainTeed 15/16"), Narrow Reveal (CertainTeed 9/16")

Size and weight

nominal size
W 24" (610 mm)
L 24" (610 mm)
H 1 ½" (38 mm)



wet weight (with H_2O)	8.5 lbs (3.8 kg)
dry weight	8 lbs (3.6 kg)

Color and finishing

White, paintable.

Available with Ceratainteed Gyptone tiles with 4 unique perforation patterns: Gyptone Quattro 20™, Gyptone Sixto 60™, Gyptone Point 11™ & Gyptone Line 4™ to offer the optimal acoustical performances. Also available on the unperforated Gyptone Base 31. Other tiles available on customer request.

CertainTeed SAINT-GOBAIN

All gypsum boards utilized with any Messana Ray Magic gypsum panels, are manufactured by Saint-Gobain and feature AirRenew™ technology and are Low VOC compliant (independently tested and certified by Berkeley Labs). AirRenew™ permanently converts VOCs (volatile organic compounds) into safe, inert compounds. For more information visit www.airrenew.com

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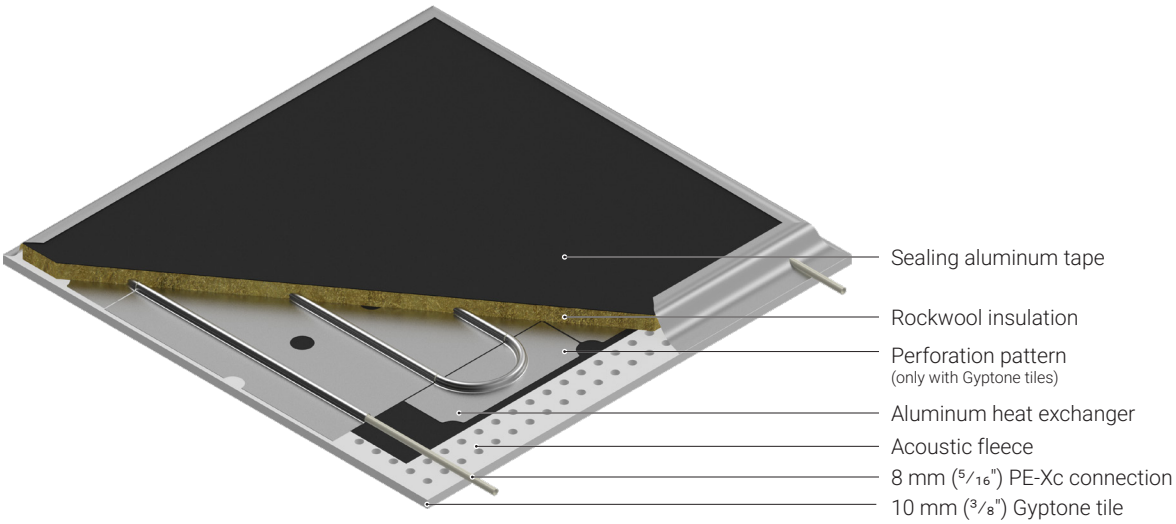

System type	Hydronic serpentine with 5/16" (8 mm) PE-Xc 3-layer piper with EVOH oxygen barrier	
Panel in series	Up to 6 panels can be connected in series (suggested at least 3 panels)	
Heat exchanger	Aluminum plates omega shaped to wrap around the pipe to increase exchange surface	
	Gypsum thermal conductivity:	0.21 W/mK (Saint-Gobain gypsum*)
	Aluminum thickness:	0.4 mm
	Radiant serpentine:	3 3/8" o.c. (100 mm)
Radiant Area	Gross radiant area:	4 sq.ft. (total panel surface)
	Net radiant area:	2.55 sq.ft. (total active area)
	Net radiant percentage:	63.7% 2.55 sq.ft. (total active area)
Performances	Cooling capacity: temperature	Max 36Btu/h/sq.ft @46 °F, Typ 23Btu/h/sq.ft @55 °F with 78 °F room
	Heating capacity: temperature	Max 59Btu/h/sq.ft @120F, Typ 28Btu/h/sq.ft @100 °F with 68 °F room
Water content	0.05 gallons (0.2 l)	
Connections	8 mm push-fit connection (not included)	
Nominal flow rate	0.0275 gpm (6.25 l/h) per panel	
Pressure drop	0.036 psi (10 inch of w.c.) per panel	
Operating pressure	20 - 40 psi (pressure test at 100 psi)	
Fluid operating temperature	46 °F to 130 °F	

Notes

1. Size, weights and technical characteristics may vary without prior notice.

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