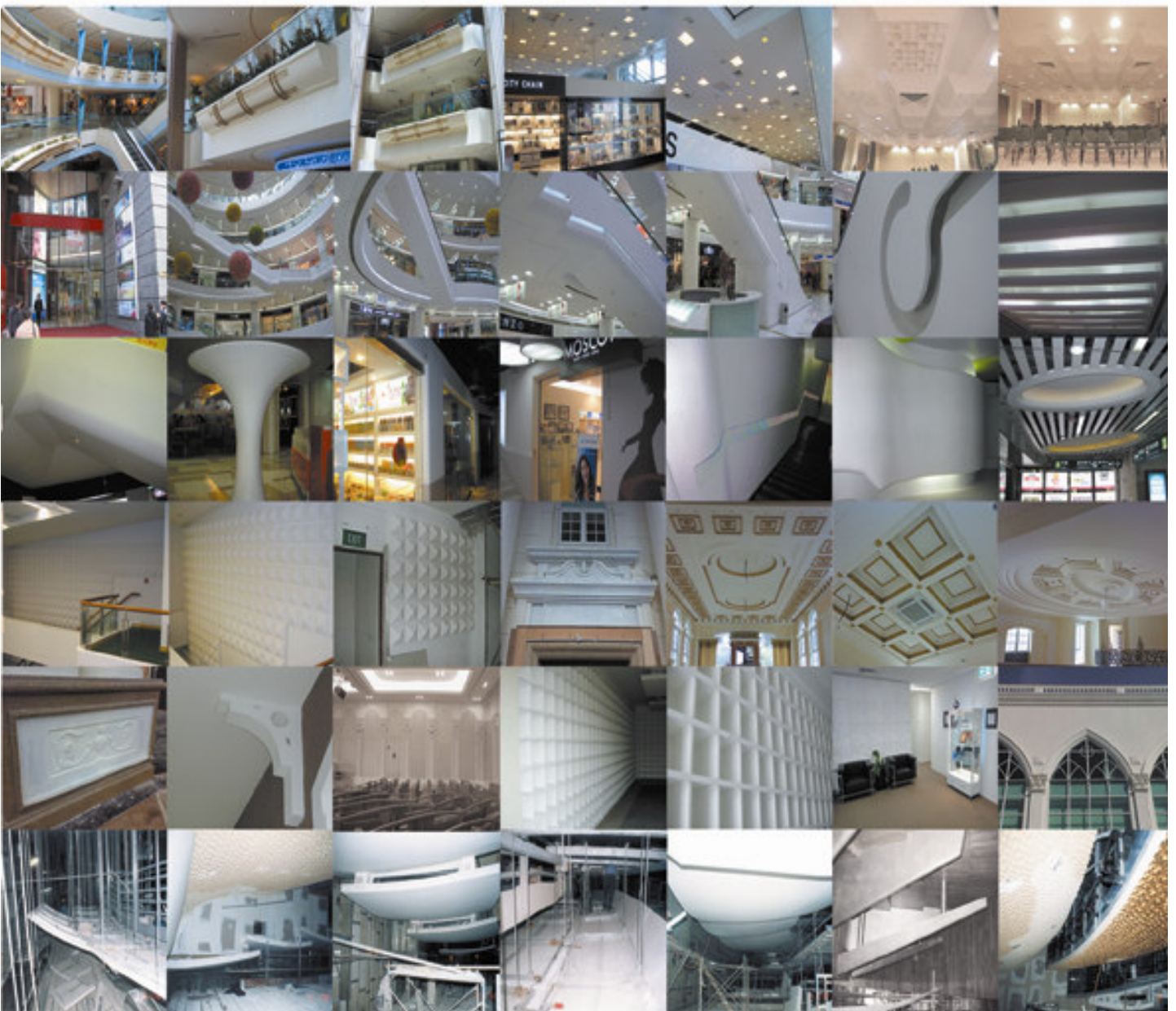


NEWDECOR G.R.G WALL&CEILING PANELS

sculptural, non-cumbersome, durable, acoustic, flexible, modular and custom

www.newdecor.com.au



About Us

Newdecor Pty Ltd is an Australia's innovative sculptural wall and ceiling panels manufacturing and distributing company with customers throughout Australia as well as in New Zealand and Asia. Newdecor 3D modular wall arts (PU) and Newdecor G.R.Gypsum sculptural wall and ceiling tiles and panels are our two principal products. Newdecor P.U modular wall arts focus more on the feature wall furniture field with 3D designed modular, acoustic, light-weight, paintable, removable and DIY features. Besides these retailing products, our G.R.G panels aim to the business owners, builders, architects and designers with the complex aesthetic, fire-safe and acoustic requirements for the variable seamless wall& ceiling sculptural surface.

Newdecor G.R.G Panels Features

Made of super fine Alpha gypsum with less water, alkaline resistant glass fibres and optional additive, Newdecor G.R.G panels are strong, resilient, non-combustible and Group 1 materials (AS/NZS 3837:1998, Certificate No.NK6345 by CSIRO). Our hand- sculpted panels and CNC perforated boards are manufactured and distributed world widely according to AU/NZ standard, ASTM or British Standard. Comparing with normal plasterboard, traditional fibre-glass board (Beta gypsum), marbles or ceramic tiles, our innovative products have the seamless surface and superb physical properties.

Fire-resistance

Our G.R.G panels are non-combustible and conform to Building Code of Australia.
Testing result: Group 1 (AS/NZS 3837:1998 and BS 476 Part 4:1970)

High Flexibility

Our G.R.G panels can be moulded to any shape, pattern and size by the architect and designer requirements for the wall or ceiling features.

Testing result: Tensile Strength- 14.2 KN (ASTM D1037 : 1999)
Flexural Strength- 28.8M/mm² (ASTM C580-98)
Modulus of elasticity, Tangent- 7522.1 MPA (ASTM C580-98)

High Strength and Durability

Our G.R.G panels are rock-like hard and impact-resistant.
Testing result: Dry Density- Approximate 1650kg/M³ + _2%
Compressive Strength- 23.7N/mm² (ASTM C109)
Impact Strength- 45.4KJ/m² (ASTM D6110 : 1997)
Rockwell Hardness 'M' Scale value- M52 ('M' Scale Value)

Acoustic and Sound Insulation

Our G.R.G panels have porous structure and sculptural surface, which can defuse the reverberation for the better acoustic effect. Besides, the perforated ceiling will also achieve the higher acoustic performance.

Testing Result: According to the specific project requirements

Thermal Performance

Our G.R.G panels will not warp or distort with the changing temperature.
Testing result: Low thermal conductivity of 0.0918w/m²k (ASTM C518:1991)
Coefficient of Thermal Expansion at 6.2 x 10-6 inch/inch F (ASTM E831: 1993)

Moisture-resistance (Optional)

With optional silicon based additive, our G.R.G panels will not deteriorate in the damp or humid areas.

Testing result: The water absorption at 20 + 2 C for 2 hour - 0.3% (max 5%) water movement (BS 1230 Part 1:1985)

Environmental- friendly

No asbestos or inorganic fibres are in use. Our G.R.G panels can be recycled.



Esplanade Theatres On The Bay
Concert Hall
50mm thk GRG panels forming air-con plenum



Esplanade Theatres On The Bay
Lyrics Theatre Foyer
6mm thk GRG perforated ceiling



Sembawang Church- 600x1200mm panels
forming seamless sculptural wall

Applications

Our G.R.G panels have a fine reputation on fire-safe, sculptural, acoustic and seamless wall decoration or curved ceiling, perforation ceiling, suspension ceiling and dome etc.

Big-scale Applications --G.R.G Architectural Wall& Ceiling Panels

Theatre and Halls



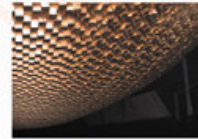
Esplanade Acoustic Wall



Esplanade Acoustic Ceiling



Esplanade Acoustic Wave Ceiling



Esplanade Sculptural Wall

Exhibition Centre



Shanghai Expo 2010 Ceiling



Shanghai Expo 2010 Ceiling 2

Public Church



Church Sculptural Wall



Church Sculptural Wall 2

Conference Centre and Auditorium



Conference Sculptural Ceiling



Shopping Mall lounge



Shopping Mall Lift



Shopping Mall Ceiling

More Projects: UAE Shopping Mall, Singapore Conference Hall, Singapore Subtrain, The Supreme Court Of Singapore, Suntec City Shopping Mall, Marina Square Shopping Centre, Raffles City Shopping Centre and Paragon Shopping Centre, etc

Small-scale Applications-- G.R.G Modular Wall& Ceiling Tiles or Panels

Retail Shops



Orchard Ceiling 1



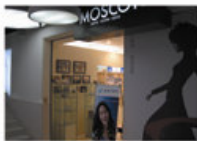
Orchard Ceiling 2



Orchard Ceiling 3



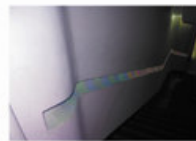
Orchard Ceiling 4



Shop 1



Shop 2



Curve wall



Curve roof

Subway Station



Train Station Curve Ceiling



Train Station Curve Ceiling 2

Foyer



Perforated Ceiling 1



Perforated Ceiling 2

Versatile applications for hotel accents, apartment foyer, restaurant, night clubs, office reception and meeting room, roof or lift lobby, lift soffits, canopies, residential feature wall& ceiling etc.

Product Dimension

The modular G.R.G Tile: 500mm (L) X500mm (W).Thickness is 5mm-10mm
The modular G.R.G Panel: 1200mm (L) X600mm (W).Thickness is 5mm- 10mm
Or depending on the custom designing requirements.

Installation

For modular G.R.G tiles, please follow our manufacturer manual. The builder should follow up the architect or manufacturer instruction for the customised architectural wall & ceiling panels under AS/NZ 2589:2007

Technical Properties

Specifications	Details	Results	Testing Standards
Fire Performance	Fire- Safe& Group Rate	Group 1 None-combustible	AS/NZS 3837:1998 BS 476 Part 4:1970
Strength	Compressive Strength Tensile Strength Flexural Strength Modulus of elasticity, Tangent Charpy Impact Strength Rockwell Hardness 'M' Scale value	23.7N/mm ² 14.2 KN 28.8M/mm ² 7522.1 MPA 45.4KJ/m ² M52	ASTM C109 ASTM D1037 : 1999 ASTM C580-98 ASTM C580-98 ASTM D6110 : 1997' M' Scale Value
Water Absorption	at 20 ± 2 °C for 2 hour	0.3% (max 5%) water movement	BS 1230 Part 1:1985
Thermal Insulation	Thermal Conductivity Coefficient of Thermal Expansion	0.0918w/m ² k 6.2 x 10 ⁻⁶ inch/inchF	ASTM C518:1991 ASTM E831: 1993
Density	Normal Dry Density	1650kg/m ³	

NEWDECOR PTY LTD (ABN: 65140497856)

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