

Brand
TXX



GRG Ceiling Tiles

GRG Fully Perforated Ceiling Tiles

CPWD, DSR VOL-2, 2021. ITEM NO 26.26
MES, SSR PART II RATES, 2020. ITEM NO 12139



CERTIFICATION

NRC

CSIR - NATIONAL PHYSICAL LABORATORY
 17-A, Rohtak Road, New Delhi-110052, India
 Phone: 91-11-26101001-04 Fax: 91-11-26101002
 E-mail: info@npl.ac.in Website: www.npl.ac.in

Sound Absorbing Material

Test Date: 14/09/2014
 Report No: 1409/14/SAB/1/A/433

1. Tested for: M/s. Diamond International Inex Private Limited, Plot No. 48, Sector - 8, GIFT, Gurgaon - 122 002, Haryana, India. Dated 15/09/2014

2. Description and Identification of Items: 12 mm thick Diamond GRC Semi Perforated Ceiling Tile

3. Environmental Conditions: Field Temperature: 30.0 °C, Relative Humidity: 65.0 %RH

4. Standards used and Associated Uncertainty: Working Standard Microphone, ± 0.2 dB

5. Traceability of Standard Used: The standards used for testing are traceable to National Standards

6. Principle/Methodology of Testing and Test Procedure No.: Sound absorbing coefficient by diffuse field method, IS: 8225-1987 "Measurement of Sound Absorption Coefficient in Reverberation Room" (Equivalent to ISO 354-1983 and ASTM 423-06), Sub-Dir # 537(A) Doc. 3 TP # 14

7. Results: As requested by the party, the material was tested only for its sound absorption coefficient by reverberation method as per IS:8225 - 1987 under existing environmental conditions in a reverberation chamber of volume 206 m³, surface area 240 m² and average reverberation time of 6 sec. The chamber was of regular shape and adequate diffusion was obtained by using suspended auxiliary diffusers.

Checked by: (Dr. Gurpreet Singh) | Checked by: (Dr. Mahesh Singh) | Issued by: (Dr. Mahesh Singh)

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Sound Absorbing Material

Test Date: 14-10-2014
 Report No: 1409/14/SAB/1/A/433

A loudspeaker with uniform spherical radiation was used as the source of sound suspended at a height of 2.2 m above the floor in one corner while the microphone was kept in different locations near the other corners of the room and at least 1 m away from any surface. The material was kept with rigid backing so as to get an exposed sample area of 0.8 m²

Measurements were made by using 1/2 octave bands of random noise and several decay rates were determined for each of the microphone and loudspeaker positions. The sound absorption coefficient was calculated and the correction for boundary absorption was applied. The results were:

Frequency (Hz)	Sound Absorption Coefficient	NRC
125	0.78	0.60
250	0.36	
500	0.27	
1000	0.44	
2000	0.37	
4000	0.36	

The evaluated uncertainty in measurement is ± 1.8 dB which is at a coverage factor k = 2 and which corresponds to a coverage probability of approximately 95% for normal distribution.

8. Date of Testing: 10-10-2014
 9. Remarks: Nil

Checked by: (Dr. Gurpreet Singh) | Checked by: (Dr. Mahesh Singh) | Issued by: (Dr. Mahesh Singh)

Non-Combustibility

SPECTRO ANALYTICAL LABS LIMITED
 S.A.L. TEST REPORT

Report No: 1409/14/NC/1
 Date: 15/09/2014

NON-COMBUSTIBILITY TEST:

SCOPE: To determine the non-combustibility performance of building products

PROTOCOL: BS 476-1:1970

TEST SPECIMEN: 476/1 and 476/2, 40 mm, 150mm x 150 mm, 10% CO Specimens

TEST CONDITION: Before use, the samples are dried in a oven at 60 ± 3 °C for 24 h and then cooled to ambient temperature in a desiccator.

TEST METHOD: The test is carried out in the furnace. The furnace temperature is measured by the thermocouple, positioned so that its junction is 10 mm from the wall of the furnace and at mid-height of the specimen. A second thermocouple is placed in the center of the specimen, measured from the top through a 7 mm diameter hole drilled. This standard thermocouple is maintained constant with the material at the bottom. The furnace is heated and its temperature stabilized at 750 ± 10 °C for a minimum period of 10 min. The specimen then inserted in the furnace the whole operation being performed in not more than 3 s. A record is made for a further 20 min of the temperature of the two thermocouples by means of a continuous recorder, the occurrence and duration of any flaring in the furnace are noted. The published heating curves is maintained unchanged for the period of the test.

TRA - 001003

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Sound Absorbing Material

Test Date: 17-05-2019
 Report No: 1905/19/SAB/1/A/031

1. Tested for: M/s. Diamond International Inex Private Limited, Plot No. Sector-8, GIFT, Gurgaon - 122 002 (Gurgaon), Haryana, India. Dated 17/05/2019

2. Description and Identification of Items: 10 mm thick Diamond GRC fully perforated fiber Ceiling tile, Item No: Explan-5, 8771 of size: 950mm x 950mm, with 20mm thick glass wool at the back

3. Environmental Conditions: Room Temperature: 28.0 ± 0.5 °C, Relative Humidity: 50.0 ± 0.5 %RH

4. Standards used and Associated Uncertainty: Working Standard Microphone, ± 0.2 dB

5. Traceability of Standard Used: The standards used for testing are traceable to National Standards

6. Principle/Methodology of Testing and Test Procedure No.: Sound absorbing coefficient by diffuse field method, IS: 8225-1987 "Measurement of Sound Absorption Coefficient in Reverberation Room" (Equivalent to ISO 354-2003 and ASTM 423-06), Sub-Dir # 537(A) Doc. 3 TP # 14

7. Results: As requested by the party, the material was tested only for its sound absorption coefficient by reverberation method as per IS:8225 - 1987 under existing environmental conditions in a reverberation chamber of volume 271 m³, surface area 240 m² and average reverberation time of 6 sec. The chamber was of regular shape and adequate diffusion was obtained by using suspended auxiliary diffusers.

Checked by: (Dr. T. K. Yadav) | Checked by: (Dr. Kirti Singh) | Issued by: (Dr. Mahesh Singh)

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Sound Absorbing Material

Test Date: 17-05-2019
 Report No: 1905/19/SAB/1/A/031

A loudspeaker with uniform spherical radiation was used as the source of sound suspended at a height of 2.2 m above the floor in one corner while the microphone was kept in different locations near the other corners of the room and at least 1 m away from any surface. The material was kept on 50 mm glass wool having density of 48 Kg/m³ and air volume (porosity) of 200 mm at backing so as to get an exposed sample area of 1.0 m²

Measurements were made by using 1/2-octave bands of random noise and several decay rates were determined for each of the microphone and loudspeaker positions. The sound absorption coefficient was calculated and the correction for boundary absorption was applied. The results were:

Frequency (Hz)	Sound Absorption Coefficient	NRC
125	0.81	0.88
250	0.80	
500	0.80	
1000	0.80	
2000	0.77	
4000	0.82	

The evaluated uncertainty in measurement is ± 0.7% which is at a coverage factor k = 2 and which corresponds to a coverage probability of approximately 95% for normal distribution.

8. Date of Testing: 14-05-2019
 9. Remarks: Nil

Checked by: (Dr. T. K. Yadav) | Checked by: (Dr. Kirti Singh) | Issued by: (Dr. Mahesh Singh)

Humidity Resistance (RH)

SPECTRO ANALYTICAL LABS LIMITED
 S.A.L. TEST REPORT

Report No: 1409/14/HR/1
 Date: 15/09/2014

HUMIDITY RESISTANCE TEST:

TEST: 476/1 and 476/2, 40 mm, 150mm x 150 mm, 10% CO Specimens

TEST	REQUIREMENT	RESULT
Test Condition: at Temperature 23°C, Relative Humidity 90% (at test duration 24h)		
Observation: (Standard/Deflection mm)	(N/A)	0

Procedure: ASTM C 473-03/ASTM C 1396-04

TRA - 001005

GRG (Glass Reinforced Gypsum) Ceiling Tiles



Green Product / Fire Retardant / Repaintable

Diamond GRG (Glass Reinforced Gypsum) Ceiling Tiles, a creative concept.

Salient Features

Diamond GRG Tiles are Moisture Resistant and strong under high humid conditions.

- Amalgamated composite
- Fused with resistant fibre
- Water resistant
- Non combustible
- Re-paintable
- Certified
- Solid edges
- Asbestos free
- Superior light reflectance

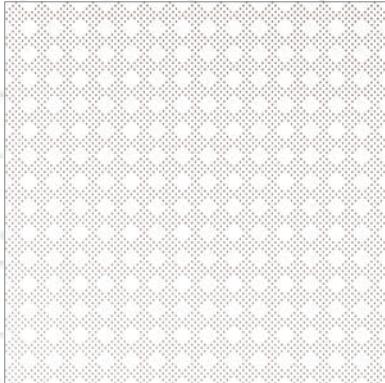
Advantages

Diamond GRG Tiles are easy & convenient to install/fix. Recommended to be installed with Diamond Ceiling Grid.

Applications

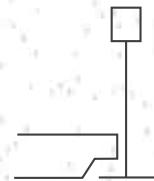
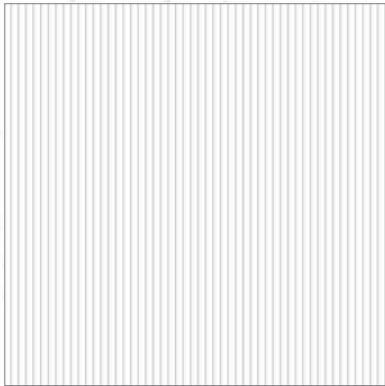
Ideally suited for: Offices, Commercial Buildings, Hospitals, Auditoriums, Airports, Super Markets, Malls, Educational Institutions, Retail Showrooms, Call Centres & Research Centres, etc.

Diamond 8811



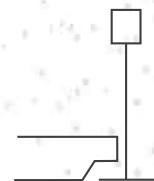
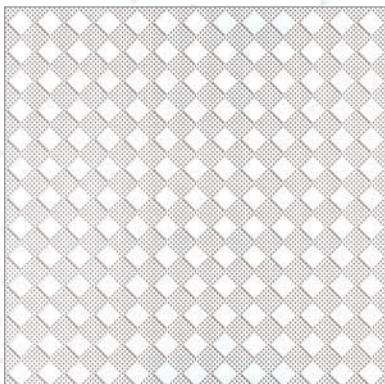
Suitable Grid - 15mm

Diamond Linear 8813



Suitable Grid - 15mm

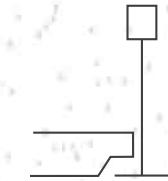
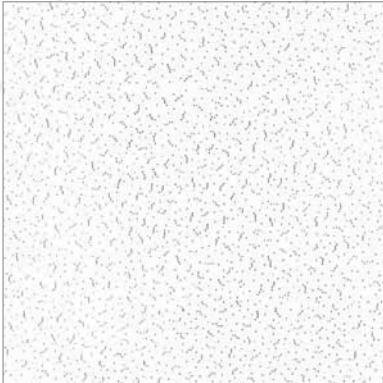
Diamond Plus 8821



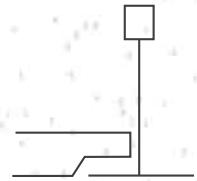
Suitable Grid - 15mm

GRG (Glass Reinforced Gypsum) Ceiling Tiles

Diamond Fissure 8829

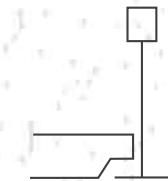


Suitable Grid - 15mm

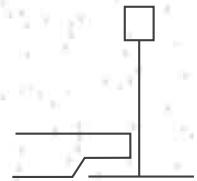


Suitable Grid - 24mm

Diamond Pinhole 8830

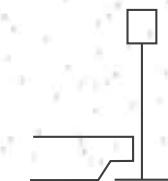


Suitable Grid - 15mm



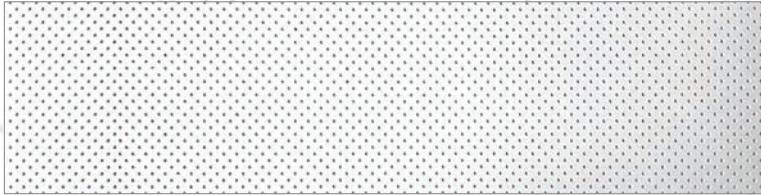
Suitable Grid - 24mm

Diamond Sand 8833

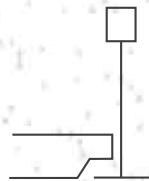


Suitable Grid - 15mm

Diamond Pinhole 8830



Size: 297.5 x 1190 mm



Suitable Grid - 15mm

Technical Specifications GRG Ceiling Tiles

Material	Glass Reinforced Gypsum
Surface	Moisture Resistant Paint
Color	White
Size	595 x 595 mm 297.5 x 1190 mm (model Name)
Thickness	12 mm
Edge Construction	Micro Tegular / Tegular
Light Reflectance	0.85 - 0.90 (Certified)
Moisture Content	<2.0%
Non Combustability	BS-476-4:1970 (Certified)
Humidity Resistance (RH)	99 % (Certified)
NRC	≥ 0.60 (Certified)
Density	400-425 kg/m ³

**GRG (Glass Reinforced Gypsum)
Fully Perforated Ceiling Tiles / Acoustic Panel**

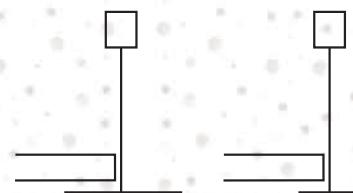
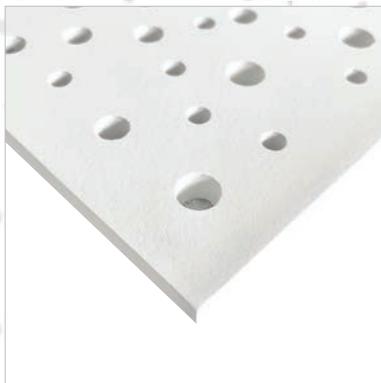
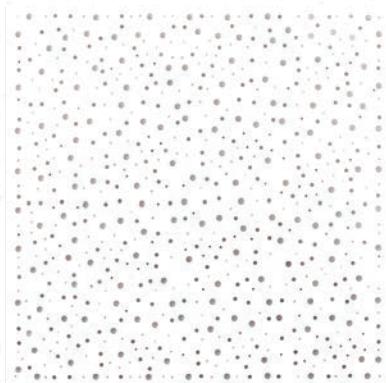


**GRG (Glass Reinforced Gypsum)
Fully Perforated Ceiling Tiles / Acoustic Panel**



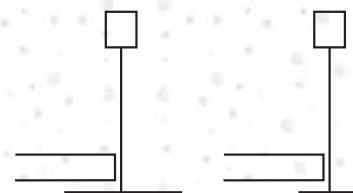
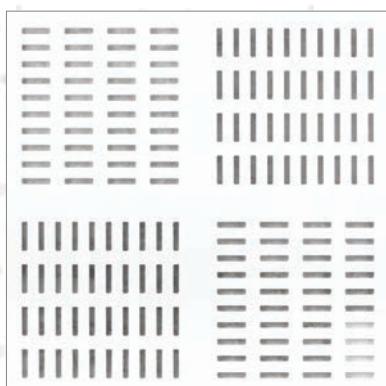
Sound Absorbing (High Standard for Noise Reduction)

Diamond Wall & Ceiling Panel 8555



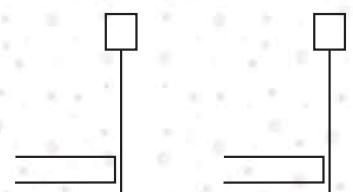
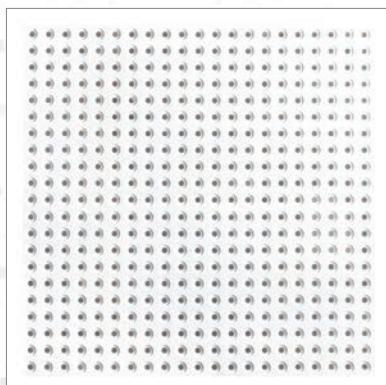
Suitable Grid - 15mm & 24mm
and Vertical Application

Diamond Wall & Ceiling Panel 8666



Suitable Grid - 15mm & 24mm
and Vertical Application

Diamond Wall & Ceiling Panel 8777

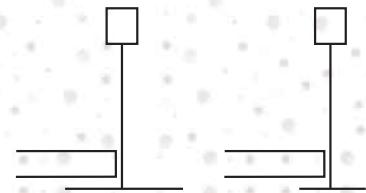
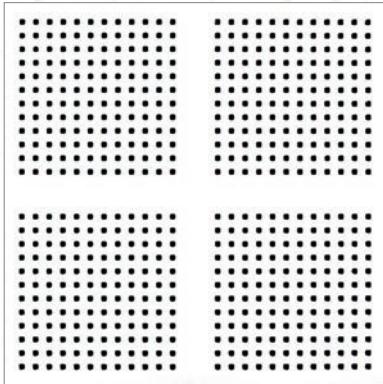


Suitable Grid - 15mm & 24mm
and Vertical Application

GRG (Glass Reinforced Gypsum) Fully Perforated Ceiling Tiles / Acoustic Panel

Sound Absorbing (High Standard for Noise Reduction)

Diamond Wall & Ceiling Panel 8999



Suitable Grid - 15mm & 24mm
and Vertical Application

Technical Specifications

GRG (Glass Reinforced Gypsum) Fully Perforated Ceiling Tiles / Acoustic Panel

Material	Glass Reinforced Gypsum
Surface	Moisture Resistant Paint
Color	White
Size	595 x595 mm
Thickness	10 mm
Edge Construction	Square
Light Reflectance	0.85 - 0.90 (Certified)
Moisture Content	<2.0%
Non Combustability	BS-476-4:1970 (Certified)
Humidity Resistance (RH)	99 % (Certified)
NRC	≥ 0.85 (Certified)
Density	350-400 kg/m ³



G. I. Suspension System

Diamond Ceiling Grid is available in high quality zinc coating (120 GSM / SQM) with pre-painted hot pressed white coil. The entire range in GI is good quality & consistent finish.



Silhouette



Sleek



Flat Plain 24

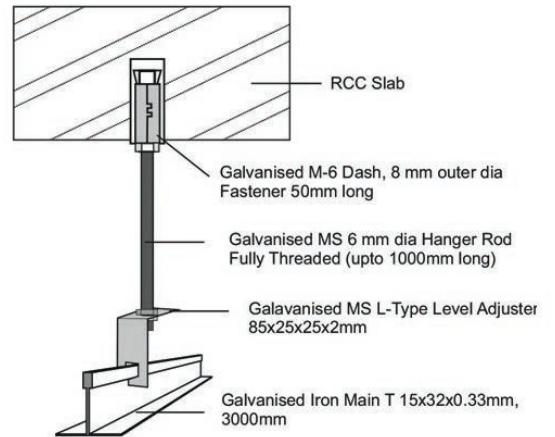


Flat Plain 15



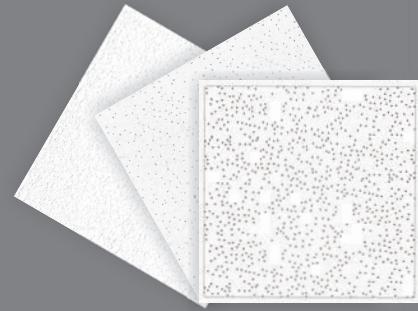
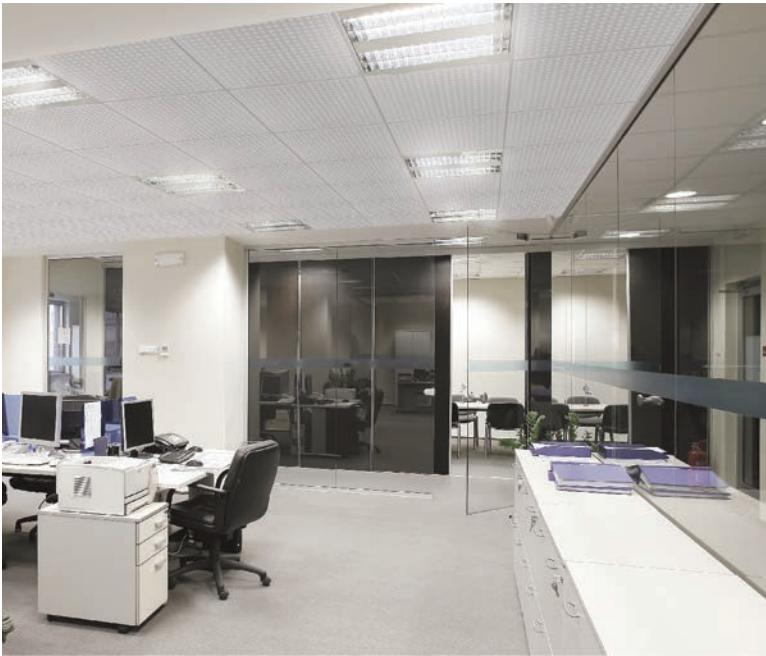
Groove 24

Hanging System

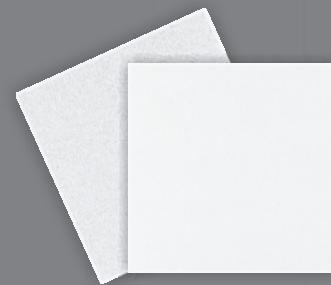


Main	Cross	Wall Angle
	Sleek (15x32)	
 15 x 32 x 3600 / 3000 mm	 15 x 32 x 1200, 15 x 32 x 600 mm	 20 x 20 x 3000 mm
	G.I. Silhouette (15x32)	
 15 x 32 x 3600 / 3000 mm	 15 x 32 x 1200, 15 x 32 x 600 mm	 20 x 20 x 3000 mm
	G.I. Plain (15x32)	
 15 x 32 x 3600 / 3000 mm	 15 x 32 x 1200, 15 x 32 x 600 mm	 20 x 20 x 3000 mm
	Groove 24	
 24 x 32 x 3600 / 3000 mm	 24 x 32 x 1200, 24 x 32 x 600 mm	 24 x 24 x 3000 mm
	G.I. Plain (24x32)	
 24 x 32 x 3600 / 3000 mm	 24 x 26 x 1200, 24 x 26 x 600 mm	 24 x 24 x 3000 mm
	G.I. Plain (24x38)	
 24 x 38 x 3600 / 3000 mm	 24 x 32 x 1200, 24 x 32 x 600 mm	 24 x 24 x 3000 mm

OTHER PRODUCTS



Ceiling Tiles Mineral Fibre



Ceiling Tiles
PVC Face Gypsum

Warranty

Diamond offers a **15 year warranty** on GRG (Glass Reinforced Gypsum) Tiles against Sagging and Warping.

Terms of Warranty

- Applicable if the Ceiling Tiles are installed using Diamond Ceiling Grid.
- Applicable if the application area is suitable for using GRG Tiles viz; Interior of Building, No Chemical Exposure.
- Applicable if the Installation is carried out at temperature ranging from -5°C to 45°C.

Installation

Diamond's Ceilings Installation being easy, it is recommend the same should be done by trained professionals.

Maintenance

Diamond's Ceilings Tiles are maintenance free.



GRG Ceiling Tiles

GRG Fully Perforated Ceiling Tiles

CPWD, DSR VOL-2, 2021. ITEM NO 26.26
MES, SSR PART II RATES, 2020. ITEM NO 12139

Authorized Dealer



DIAMOND INTERNATIONAL INEX PRIVATE LIMITED

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Phone : 0124 4055278 / 4103487

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HYDERABAD : Property No.27 & 28, Rajiv Gandhi Nagar, Prashanti Nagar, IDA Kukatpally, Hyderabad, Telangana - 500072

