

فور اكو

جيسوم • جي آر سي • ديڪور



VORACO

GYPSUM • GRC • DECOR

C. R. : 78983 - 02

Company Portfolio & Presentation

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GRC or GFRC QUALITIES

GRC is the combination of alkali-resistant glass fiber, cement & sand mortar. it is concrete like material but The fibers add compressive, tensile and impact strengths and the resulting material allows the production of strong yet lightweight products.

It has good chemical & fire resistance & will not decay or corrode. It provides high performance insulating with heat and sound.

GRC can be used for Exteriors as wall cladding, decorative facade screen, panels, cornices, balustrades, handrails, crowns, coping, columns, corbels, emblems, architraves, keystones, quoins, column covers, ceilings, water spouts, A/C duct screens, pipes, gratings, channels, plant vase.

The basic materials used are Cement (white or grey), Aggregate (fine natural sand), Water, Admixtures (Water reducing, plasticizers), Glass fiber (chopped), Color pigment.

GRG or GFRG QUALITIES

GRG is the combination of alkali-resistant glass fiber & Gypsum which can be used for Interiors as wall cladding, decorative screen, panels, cornices, crowns, coping, columns & covers, corbels, emblems, decorative architraves, keystones, A/C screens.

TYPICAL DESIGN STRESSES

Property	Unit	Hand/Mach Spray	Premix
Compressive	N / mm ²	12	12
Bending	N / mm ²	6	4
Shear	N / mm ²	1	1

PRINCIPAN MECHANICAL PROPERTIES

Property	Unit	Hand/Mach Spray	Premix
Fibre Content	% by Wt	(Max) 5	(Max) 3
Density	Tonnes/mm ³	2.1	2.0
Compressive Strength	N / mm ²	50 ~ 75	40 ~ 44
Bending Strength (M.D.R.)	N / mm ²	20 ~ 30	10 ~ 14
Bending Elastic Limit (K.I.O.)	N / mm ²	7 ~ 11	5 ~ 8

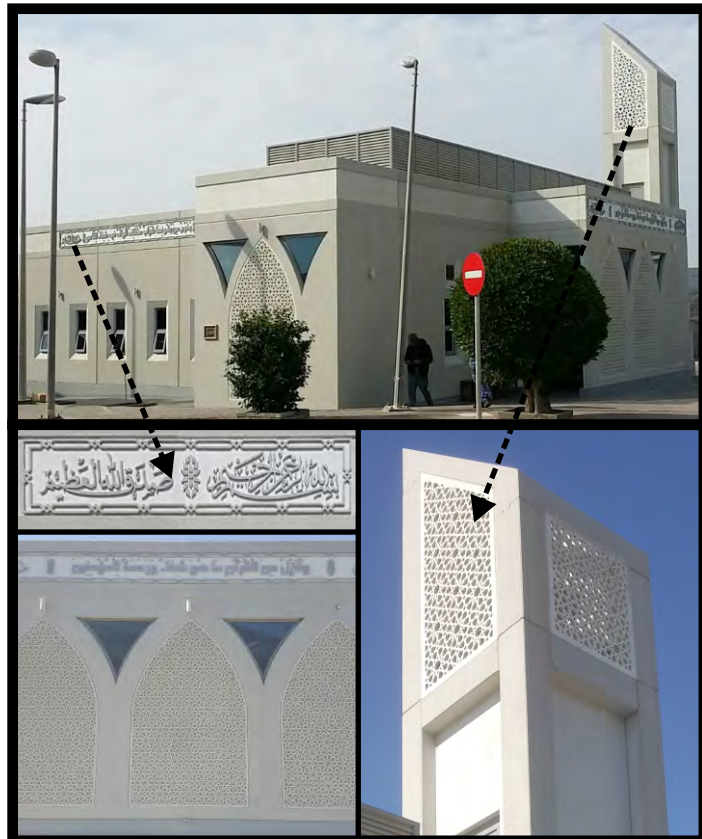
It Should be noted that generally mechanical properties of G.R.C. varies from their original levels within time depending on the environment. There is little or no change in dry conditions but in moist or wet conditions there is a tendency for some loss of strength on aging.

PHYSICAL PROPERTIES

	Property	Performance
Thermal	expansion / conductivity	negligible / max 1.0 W / MK
Fire	Combustibility / ignitability	non combustible / very low
Moisture	Permeability / absorption	negligible / max 15% up tp saturation
Acoustic	Sound absorption	very low

VORACO Scope of Work: GRC Screen & Quran Verses.
 Project : BDF HOSPITAL MOSQUE Main Contractor: NASS CONTRACTING

VORACO Scope of Work: GRC 6M Architraves.
 Project : THE AVANUE MALL



VORACO Scope of Work: GRC Screen Panel and Curved Canopy on balcony ceiling for each floor.
Project : JUFFAIR HEIGHTS , Main Contractor : DADABHAI CONSTRUCTION



VORACO Scope of Work: GRC Screen on every floor and 10x8m Screen at parking level.
Project : SEEF TERRACES , Main Contractor : DADABHAI CONSTRUCTION



VORACO Scope of Work: GRC Screen, Panel, Brackets & Curved Architraves.
Project : OAK VILLA EXTERIORS , Main Contractor : AI GHANAH CONTRACTING



VORACO Scope of Work: GRC Custom Screen, Panel, Brackets & Architraves.
Project : OAK VILLA INTERIORS , Main Contractor : AI GHANAH CONTRACTING

