







DEEWAAR | SLATE | Satin matt

Description	Property	Permissible Standards (IS)	Method of Testing	Unit of Measure	CarbonCraft Technical Data
Dimensions	Length x Width	-	IS 1237	mm	240 x 60
		-	IS 1237	in	9.45" x 2.36"
	Thickness	-	IS 1237	mm	10
		-	IS 1237	in	0.39
Dimensional Deviation	Length x Width	±2 mm (IS), ±5%	IS 1237	mm	±1
	Thickness	±2 mm (IS), ±5%	IS 1237	mm	±1
Finish	Surface Flatness	Deviation not ≥ 0.3%	IS 1237	%	0.14
	Surface Quality	Free from cracks, Chips visible defects	IS 1237	-	Conform to Standards
	Resistance to Staining	Easily cleanable with no deep stains	IS 1237	-	Conform to Standards
	Resistance to Household Chemicals	No visible damage	IS 1237	-	Conform to Standards
	Scratch Hardness of Surface	≥5 for normal use	IS 1237	Moh's	6
Geometry   	Straightness of sides	Deviation not > 0.3%	IS 1237	%	0.12
	Rectangularity	Deviation not > 0.3%	IS 1237	%	0.12
Avg Weight / Sft 		-	-	Kg	2.35
		-	-	Lbs	5.18
Bulk Density		≥2.2 g/cm³ - dense concrete	IS 1237	gm/cc	≥ 2.25 - 2.4
Adhesion		-	-	-	Compatible with cement & epoxy based materials
Durability					
Structural Parameters	Flexural Strength <small>(MOR)</small>	≥3.5 MPa (general)	IS 1237	Mpa	≥ 5 - 6 MPa
	Breaking Strength	≥3.5 kN (for 200 mm tile)	IS 1237	KN	≥ 4 - 5 KN
	Impact Resistance	No visible damage at 0.5 m drop height	IS 1237	-	Conform to Standards
Abrasion Resistance <small>(Deep / Surface)</small>		≤2 mm wear	IS 1237 / IS 15658	mm	< 1
Efflorescence		-	-	-	Slight / Nil
Water Absorption	Initial Water Absorption	≤10% (General), ≤6% (Exterior/ interlocking tiles)	IS 1237	%	3.09
	Cold Water Absorption				
Moisture Expansion		≤0.06%	IS 15658	%	0.04
Thermal Resistance	Linear Thermal Expansion	9 x 10-6 K-1, Max	ASTM C531	-	7 x 10-6/°C
	Thermal Shock Resistance	No cracking or spelling	ASTM C484	-	Conform to Standards
	Fire Resistance	Non-combustible	-	-	Non-combustible
Accelerated Weather Incl.	Acc. Aging Test	Nominal loss in strength or surface deterioration	ASTM C154	-	Conform to Standards
	Frost Resistance	No visible damage after 50 freeze-thaw cycles	IS 1237	-	Conform to Standards
	General Appearance	-	-	-	-
UV Resistance		No visible fading or degradation	ASTM C154	-	Conform to Standards

DISCLAIMER - Testing data is indicative and represents average results; due to the inherent variability in raw materials (Industrial byproducts), actual results may vary from what is received on site, and if specific test results are required, samples should be taken from the current production batch.

DEEWAAR | MONO | Satin matt

Description	Property	Permissible Standards (IS)	Method of Testing	Unit of Measure	CarbonCraft Technical Data
Dimensions	Length x Width	-	IS 1237	mm	225 x 75
		-	IS 1237	in	9" x 3"
	Thickness	-	IS 1237	mm	10
		-	IS 1237	in	0.39
Dimensional Deviation	Length x Width	±2 mm (IS), ±5%	IS 1237	mm	±1
	Thickness	±2 mm (IS), ±5%	IS 1237	mm	±1
Finish	Surface Flatness	Deviation not ≥ 0.3%	IS 1237	%	0.14
	Surface Quality	Free from cracks, Chips visible defects	IS 1237	-	Conform to Standards
	Resistance to Staining	Easily cleanable with no deep stains	IS 1237	-	Conform to Standards
	Resistance to Household Chemicals	No visible damage	IS 1237	-	Conform to Standards
	Scratch Hardness of Surface	≥5 for normal use	IS 1237	Moh's	6
Geometry 	Straightness of sides	Deviation not > 0.3%	IS 1237	%	0.12
	Rectangularity	Deviation not > 0.3%	IS 1237	%	0.12
Avg Weight / Sft. 		-	-	Kg	2.35
		-	-	Lbs	5.18
Bulk Density		≥2.2 g/cm³ - dense concrete	IS 1237	gm/cc	≥ 2.25 - 2.4
Adhesion		-	-	-	Compatible with cement & epoxy based materials
Durability					
Structural Parameters	Flexural Strength <small>(MOR)</small>	≥3.5 MPa (general)	IS 1237	Mpa	≥ 5 - 6 MPa
	Breaking Strength	≥3.5 kN (for 200 mm tile)	IS 1237	KN	≥ 4 - 5 KN
	Impact Resistance	No visible damage at 0.5 m drop height	IS 1237	-	Conform to Standards
Abrasion Resistance <small>(Deep / Surface)</small>		≤2 mm wear	IS 1237 / IS 15658	mm	< 1
Efflorescence		-	-	-	Slight / Nil
Water Absorption	Initial Water Absorption	≤10% (General), ≤6% (Exterior/ interlocking tiles)	IS 1237	%	3.09
	Cold Water Absorption				
Moisture Expansion		≤0.06%	IS 15658	%	0.04
Thermal Resistance	Linear Thermal Expansion	9 x 10-6 K-1, Max	ASTM C531	-	7 x 10-6/°C
	Thermal Shock Resistance	No cracking or spelling	ASTM C484	-	Conform to Standards
	Fire Resistance	Non-combustible	-	-	Non-combustible
Accelerated Weather Incl.	Acc. Aging Test	Nominal loss in strength or surface deterioration	ASTM C154	-	Conform to Standards
	Frost Resistance	No visible damage after 50 freeze-thaw cycles	IS 1237	-	Conform to Standards
	General Appearance	-	-	-	-
UV Resistance		No visible fading or degradation	ASTM C154	-	Conform to Standards

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