



STONIUM
SIMPLE UPGRADES



TRAVERTINIUM COLLECTION

SIENA

Weight	20 kg
Size	D 440 mm H 160mm
Installation	Top Mount

THE TRAVOLA



Romano



Navona



Silver



Handmade



UHPC
(Ultra High Performance Concrete)



Waterproof



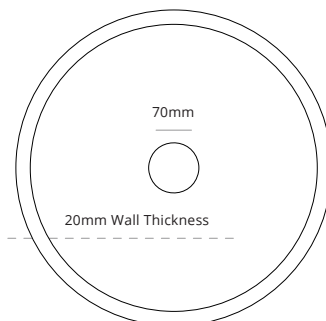
Matte Finish



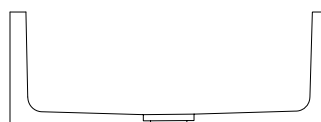
ECO Friendly



Made in Lebanon



440mm Outer Diameter



160mm Height

Concrete casting is a handmade process, therefore a margin of variation can be found from one piece to another in terms of color, leveling, and aggregates dispersion/denseness. The casting process may result in some minor pinholes, and color lines that show on the surface of concrete.

TECHNICAL DATA SHEET

MECHANICAL & PHYSICAL PROPERTIES

REPORT NO: R-31023 || AUB - AMERICAN UNIVERSITY OF BEIRUT LABORATOIRES

ATTRIBUTE	SPECIFICATION	ASTM TEST STANDARD	RESULT
MATERIAL COMPOSITION	COMPOSITE MATERIAL, BINDER, CRUSHED STONE, QUARTZ	N/A	N/A
SURFACE FINISH	MOLDED, PATTERNED, FILLED, SANDED, SEALED	N/A	N/A
DENSITY KG/M³ (PCF)	5.0X5.0X5.0 (CM)	N/A	1200 KG/M³
COMPRESSIVE STRENGTH MPA (PSI)	5.0X50X3.0 (CM)	ASTM C170	60 MPA (8702.0)
TENSILE STRENGTH MPA (PSI)	50.0X20X3.0 (CM)	ASTM D638	70 MPA (10,152)
FLEXURAL STRENGTH MPA (PSI)	50.0X20X3.0 (CM)	ASTM C880	12.6 MPA (1827.4)
TENSILE MODULUS MPA (PSI)	50.0X20X3.0 (CM)	ASTM D638	7,000 MPA
IMPACT RESISTANCE J/M	N/A	ASTM D256	20 J/M
SURFACE HARDNESS	10.0X10.0X3.0 (CM)	ASTM D2240	80 SHORE D
ABRASION RESISTANCE (USING TINIUS OLSEN WEAROMETER C.D.R)	LOSS IN THICKNES AFTER 1000 REVOLUTIONS MM (INCH)	N/A	0.25 (0.01)
ELONGATION AT BREAK	N/A	ASTM D638	5%
WATER ABSORPTION (ABSORPTION CAPACITY PERCENT BY WEIGHT)	5.0X5.0X5.0 (CM)	ASTM C97	0.4%

CHEMICAL RESISTANCE

REPORT NO: CERR-2504/11592 MLABS DUBAI || TEST METHOD: ISO 10545-13:2016: 2016 (E)

AQUEOUS TEST SOLUTIONS USED	VISUAL EXAMINATION RESULT	MINIMUM REQUIREMENTS AS PER: BS EN 14411:2012 (ANNEX G)	TEST RESULT
HOUSEHOLD CHEMICALS AMMONIUM CHLORIDE SOLUTION-3 %	NO VISIBLE EFFECT	MINIMUM CLASS B	CLASS A (V)
SWIMMING POOL SALTS SODIUM HYPOCHLORITE SOLUTION-5 %	NO VISIBLE EFFECT	MINIMUM CLASS B	CLASS A (V)
ACIDS AND ALKALIS - LOW CONCENTRATIONS (L): HYDROCHLORIC ACID (3 %)	NO VISIBLE EFFECT	MINIMUM CLASS B	CLASS LA (V)
CITRIC ACID (100 G/L)	NO VISIBLE EFFECT	MINIMUM CLASS B	CLASS LA (V)
POTASSIUM HYDROXIDE SOLUTION (30 G/L)	NO VISIBLE EFFECT	MINIMUM CLASS B	CLASS LA (V)
ACIDS AND ALKALIS - HIGH CONCENTRATIONS (H): HYDROCHLORIC ACID (18 %)	NO VISIBLE EFFECT	MINIMUM CLASS B	CLASS HA (V)
LACTIC ACID(5 %)	NO VISIBLE EFFECT	MINIMUM CLASS B	CLASS HA (V)
POTASSIUM HYDROXIDE (100 G/L)	NO VISIBLE EFFECT	MINIMUM CLASS B	CLASS HA (V)
PENCIL TEST	REMOVED	MINIMUM CLASS B	CLASS A

UV RESISTANCE TEST

REPORT NO: CERR-2504-11591 MLABS DUBAI || TEST METHOD: ASTM G 154-16

UV RESISTANCE ACCELERATED WEATHER TESTER AWT-1	UV RESISTANCE OF STONIUM COMPOSITE AFTER 500 HOURS EXPOSURE LAMP UVA-340 8 H UV AT 60 (±3) °C BLACK PANEL TEMPERATURE; 0.25 H WATER SPRAY (NO LIGHT), TEMPERATURE NOT CONTROLLED; 3.75 H CONDENSATION AT 50 (±3) °C BLACK PANEL TEMPERATURE	ASTM G 154-16	OBSERVATION CRAZING: NONE CHALKING: NONE CRACKING & BLISTERING: NONE COLOR CHANGE: NONE
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TECHNICAL DATA SHEET

MICRO BIOLOGY - SURFACE MOLD GROWTH RESISTANCE					
REPORT NO: CERR-2504/11594 MLABS DUBAI TEST METHOD: ASTM D 3273					
TEST STRAINS:		DURATION (CONTROL SAMPLE - INDUSTRY STANDARDS)	RESULT	DURATION (TEST SAMPLE - STONIUM COMPOSITE)	RESULT
INCUBATION TEMPERATURE:		WEEK 1	8	WEEK 1	10
HUMIDITY:		WEEK 2	5	WEEK 2	10
		WEEK 3	1	WEEK 3	10
DURATION:		WEEK 4	1	WEEK 4	9
TEST SAMPLE:		RATING SYSTEM:		RATING SYSTEM:	
CONTROL SAMPLE:		1= HIGH MOLD GROWTH 10= LOW MOLD GROWTH		1= HIGH MOLD GROWTH 10= LOW MOLD GROWTH	

(VOC) VOLATILE ORGANIC COMPOUND EMISSION					
REPORT NO: 2504/11593 MLABS DUBAI TEST METHOD: ISO 16000-9					
TEST METHOD		VOLATILE ORGANIC COMPOUND	CAS NUMBER	CONCENTRATION IN THE CHAMBER (MG/M3)	EMISSION RATE (MG/M2H)
		SAMPLING TIME: 24 HOURS			
PRE-CONDITIONING:	10 DAYS AT 23±1°C AND 50±5% RH PER ISO 16000-11	TVOC (C6-C16) (MG/M³)	---	<15	<40
		SAMPLING TIME: 72 HOURS			
CHAMBER VOLUME:	1.0 M³ STAINLESS STEEL	TVOC (C6-C16) (MG/M³)	---	<15	<40
		SAMPLING TIME: 24 HOURS			
AIR EXCHANGE RATE:	1.0 H ⁻¹	TVOC (C6-C16) (MG/M³)	---	<15	<40
SURFACE AIR VELOCITY:	0.1-0.3 M/S	BENZENE (MG/M³)	---	<1	<1
		FORMALDEHYDE (MG/M³)	<15	<1	<1
SPECIMEN AREA:	0.1 M²	LEED V4 COMPLIANCE			
AIR FLOW RATE:	2.0 M³/M²·H	COMPOUND TVOC	LIMIT (MG/M3) <0.010	RESULTS <0.010	COMPLIANCE PASS
SAMPLING INTERVALS:	24, 72, AND 168 HOURS	CONCLUSION:			
ANALYSIS:	TD-GC-MS USING TENAX TA TUBES	The tested STONIUM COMPOSITE sample is compliant with LEEDv4 TVOC emission limits for indoor air quality. All detected VOCs, including formaldehyde and benzene, were well below detection limits			

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