

GRANIUM[®]

HEAD OFFICE:

SILVER INTERNATIONAL PVT LTD

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WEBSITE: WWW.GRANIUM.COM

BRANCHES: MUMBAI, KOLKATA & CHENNAI

Company Profile

Established in 2012, We 'Silver International Pvt Ltd' have emerged as the distinguished brand for Acrylic Solid Surface in a very short span.

Granium was introduced by the experts associated with Aludecor, top manufacturer of Aluminium Composite Panel in India. Their efforts, expertise and resources helped launch a new wave of advanced lifestyle in the form of **Granium** – Acrylic Solid Surface.



Aludecor®



ISO 9001-2008
certification



NSF certification



Green Guard certification



ISSFA certification

Granium - Acrylic Solid Surface

Solid Surface is a man-made material made, composed of acrylic resins, natural minerals and pigments.

Solid surface can be whatever you imagine it can be. Solid surface is a non-porous low-maintenance material used largely as countertops and also converted in variety of shapes such as sinks, bathtubs, furniture, etc. It can mimic the appearance of granite, marble, stone and other naturally occurring materials, and can be joined nearly invisibly by a trained craftsman.



Granium – Range





GRU-001



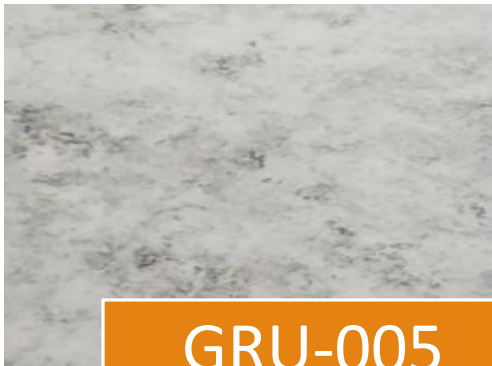
GRU-002



GRU-003



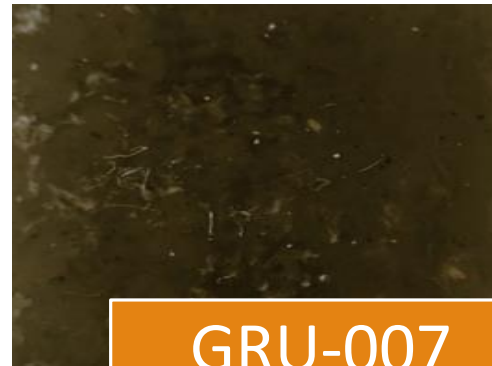
GRU-004



GRU-005



GRU-006



GRU-007



GRU-008



GR-101



GR-201



GR-203



GR-204



GR-206



GR-207



GR-209



GR-211



GR-220



GR-251



GR-301



GR-302



GR-303



GR-306



GR-307



GR-311



GR-318



GR-319



GR-340



GR-350



GR-360



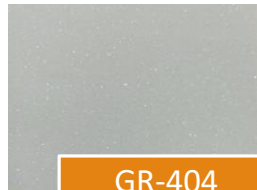
GR-361



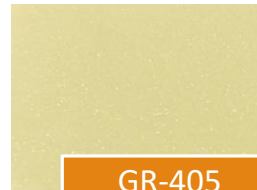
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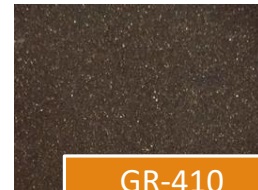
GR-402



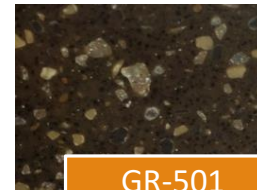
GR-404



GR-405



GR-410



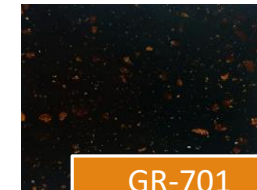
GR-501



GR-514



GR-522



GR-701



GRE-101



GRE-201



GRE-204



GRE-207



GRE-209



GRE-210



GRE-214



GRE-216



GRE-217



GRE-301



GRE-303



GRE-306



GRE-307



GRE-311



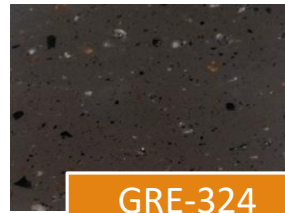
GRE-317



GRE-322



GRE-323



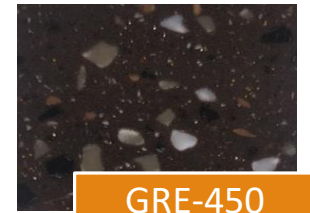
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GRE-401



GRE-404



GRE-450



GRE-451



GRE-452



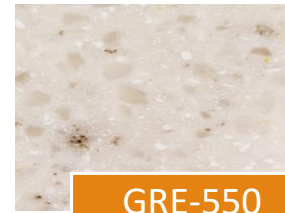
GRE-501



GRE-512



GRE-522



GRE-550



GRE-602



GRE-603



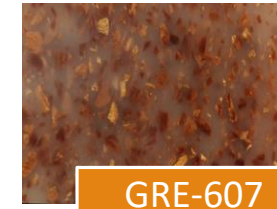
GRE-604



GRE-605



GRE-606



GRE-607



GRE-608



GRM-001



GRM-002



GRM-003



GRM-004



GRM-005



GRM-006



GRM-007



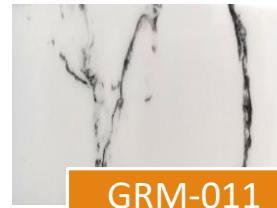
GRM-008



GRM-009



GRM-010



GRM-011



GRM-012



GRM-013



GRM-014

Granium – Features

- ❑ Non-porous and Hygienic
- ❑ Highly Resistant
- ❑ Easy to Clean & Repair
- ❑ Supremely Versatile
- ❑ Non-toxic
- ❑ Seamless Designs
- ❑ Eco-friendly Material



Granium - Applications

Granium provides endless versatility and can be successfully used in a number of different market segments.

- ❖ Hotels & Restaurants
- ❖ Retail / Shop Fitting
- ❖ Hospitals
- ❖ Kitchens
- ❖ Bathrooms
- ❖ Living Rooms
- ❖ Furniture's
- ❖ Airports
- ❖ Commercial places
- ❖ Public Buildings



Granium Unique Applications

PARTITION WALLS



CEILINGS



Granium Unique Applications

WARDROBE CABINETS



WALL SHELVES



Granium Unique Applications

HIGHLIGHT WALLS



BED BACK PANELS



Granium Unique Applications

FRONT GATE



BATHROOM SINKS

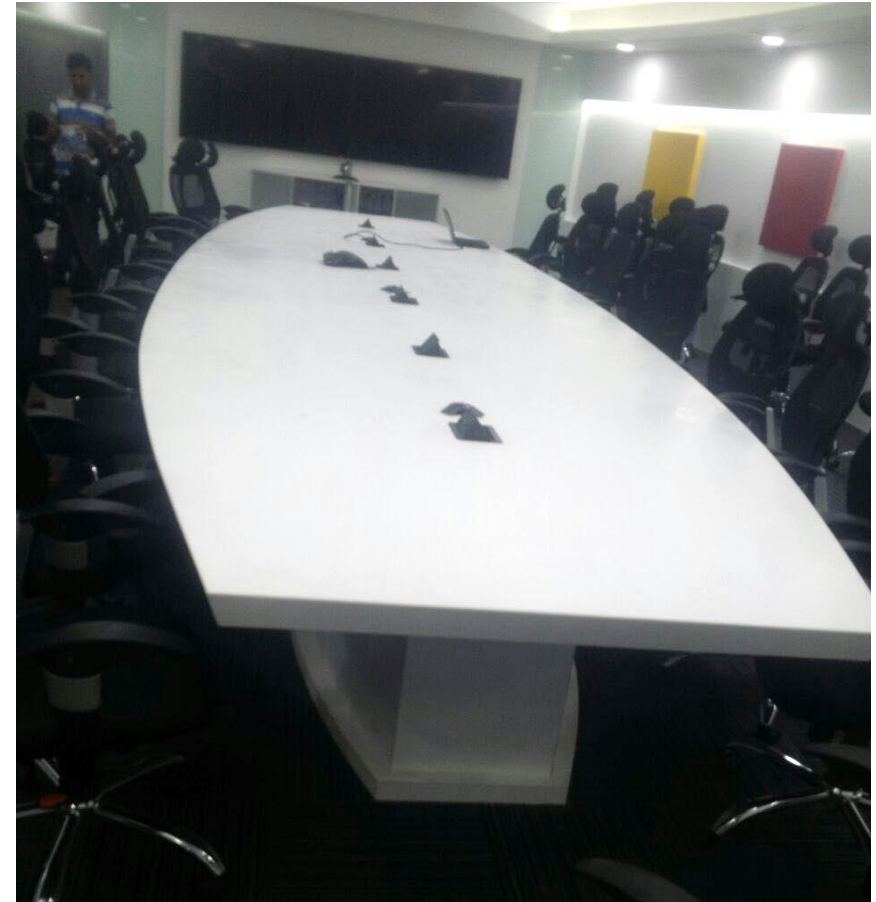


Granium Unique Applications

RECEPTION TABLES



CONFERENCE TABLES



Granium Unique Applications

STAIRS



OFFICE / STUDY DESKS



Granium Unique Applications

CHAIRS



BENCHES

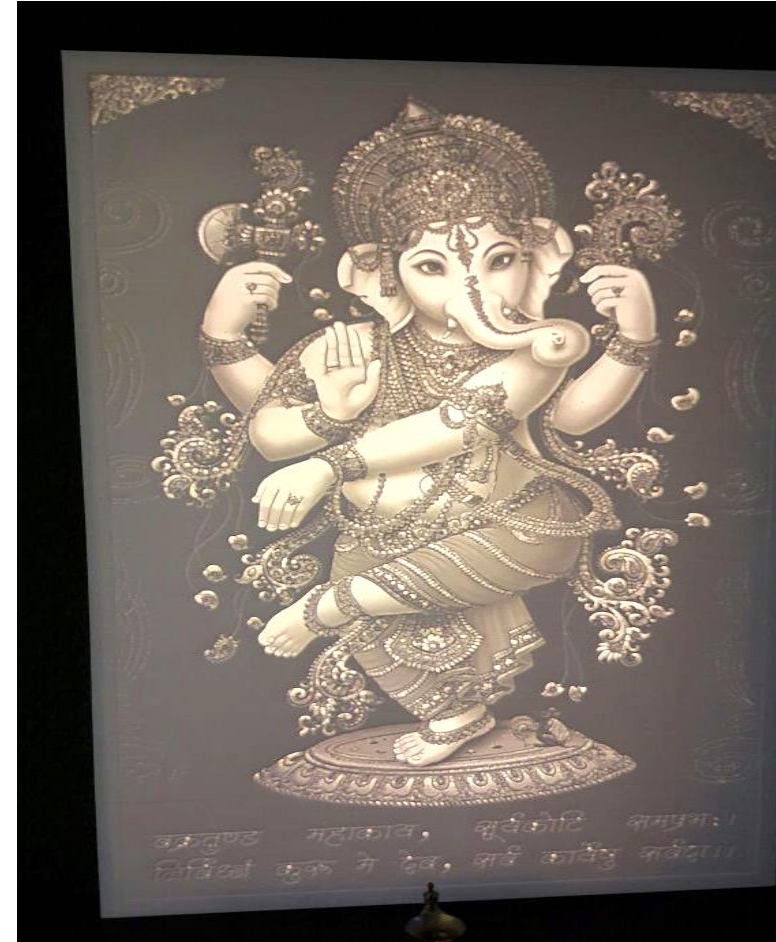


Granium Unique Applications

TEMPLES & PUJA GHARS



PORTRAITS



CERTIFICATE OF PROPERTY

Granium – Classic Series 12mm Thickness

Property	Unit	Typical Value	Test Method
Specific Gravity		1.749	ASTM D-792-13
Water Absorption	%	0.03	ASTM D570-98
Hardness - Rockwell M Scale		90	ASTM D785-08
Hardness - Barcol Impressor		63	ASTM D2583
Tensile Strength	Mpa	45.1	ASTM D638-14
Tensile Modules of Elasticity	Gpa	9.93	ASTM D638-14
Elongation at Break Point	%	0.73	ASTM D638
Flexural Strength	Mpa	69.6	ASTM D790-10
Flexural Modules of Elasticity	GPa	10.0	ASTM D790-10
Izod Impact Strength	J/m	16	ASTM D256-10
Deflection Temperature Under Load (1.82 Mpa)	'C	96	ASTM D648-07
Ball Impact Resistance		>95	NEMA LD3
Carbon Arc Exposure(1000 Hours) - Blisters - Crazing - Color Change - Cracking - Dulling		No Effect No Effect Moderate Effect No Effect No Effect	ASTM D 1499-99
Light Resistance/Color Stability(1000 Hours) - Blisters - Crazing - Color Change - Cracking - Dulling		No Effect No Effect Slight Effect No Effect Moderate Effect	NEMA LD3
Boiling Water Resistance - Blisters - Crazing - Color Change - Cracking - Dulling		No Effect No Effect No Effect No Effect No Effect	NEMA LD3
High Temperature Resistance - Blisters - Crazing - Color Change - Cracking - Dulling		Moderate Effect No Effect No Effect No Effect Slight Effect	NEMA LD3
Stain Resistance		Pass	IAPMO/ ANSI124.1.2
Fungus Resistance		Rating-0 (No trace of growth)	ASTM D-21
Europe			
Reaction to Fire (Classification standard in accordance with EN 13501-1+A1)	Class	B-s1,d0	EN ISO11925-2 and EN 13823
Reaction to Fire	Class	B1	DIN 4102-1,16
Reaction to Fire	Class	0	BS 476 Part 6 1989 BS 476 Part 7 1997
North America			
Classification	Class	A	ASTM E-84
- Flame Spread Index(FSI)		20	ANSI UL 723 (ASTM E84)
- Smoke Develop Index(SDI)		5	ANSI UL723 (ASTM E84)

Physical & Chemical Test Certificates

SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH
(A unit of Shriram Scientific and Industrial Research Foundation)
An ISO - 9001:2008 Certified Institute

000336194

TEST CERTIFICATE

Issued to: SILVER INTERNATIONAL PVT. LIMITED
GRANULAR ACRYLIC SOLID SURFACE
FLOORING FOR ASHOK VIHAR
PROJECT
DELHI - 110002

I.O.No. 405-141-4947
Reg.No. 1362219
Date 21.08.2014
Year Ref.No. -

Kind Attn: MR GAURAV KABRA, DIRECTOR
Date 26.06.2014

Sample Particulars:
Color: GR-101 (pure white), was received.
The sample was not received by Shriram Institute for Industrial Research. The sample details provided in the test certificate are based on declaration by the party.

TEST RESULTS

S.No.	Test	Results	Protocol/method used
1	Density, g/cm ³	1.74	As per guidelines of ASTM D 192
2	Tensile Strength, MPa	19.2	As per guidelines of ASTM D 638
3	Tensile Modulus, MPa	1192	As per guidelines of ASTM D 638
4	Elongation, %	8.4	As per guidelines of ASTM D 638
5	Flexural Strength, MPa	51.2	As per guidelines of ASTM D 790
6	Flexural Modulus, MPa	16236	As per guidelines of ASTM D 790
7	Heat Deflection Temperature, °C	143	As per guidelines of ASTM D 648
8	Water Absorption, %	0.02	As per guidelines of ASTM D 570
9	Boiling water resistance	No visual effect is observed	As per guidelines of NEMA LD3
10	Water Absorption, mg (1kg weight & 1000 cm ² surface weight loss)	13.1	As per guidelines of ASTM D 4060
11	Panel Hardness		As per guidelines of ASTM D 5163
	Scratch hardness	No effect on the surface of the film is observed.	
	Impact hardness	No rupture or scratch on the coating is observed up to 6H	

Note: Retesting fees will be repeated fees.

U.O.R.: 27.06.2014
D.O.C.: 22.07.2014

AUTHORISED SIGNATORY
(EMPLOYEE CODE 14963)

Ph: 91-11-27667267, 27667983, 27667860
Fax: 91-11-27667676, 27667207 P.T.O.

SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH
(A unit of Shriram Scientific and Industrial Research Foundation)
An ISO - 9001:2008 Certified Institute

000340625

TEST CERTIFICATE

Issued to: SILVER INTERNATIONAL PVT. LIMITED
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FLOORING FOR ASHOK VIHAR
PROJECT
DELHI - 110002

I.O.No. 405-141-4947
Reg.No. 1362219
Date 21.08.2014
Year Ref.No. -

Kind Attn: MR GAURAV KABRA, DIRECTOR
Date 26.06.2014

Sample Particulars:
Color: GR-101 (pure white), was received.
The sample was not received by Shriram Institute for Industrial Research. The sample details provided in the test certificate are based on declaration by the party.
Supplementary report is provided in 9413 5506714

TEST RESULTS

S.No.	Test	Results	Protocol/method used
1	Impact strength, J/m ² (Normal)	15.3	As per guidelines of ASTM D 238
2	Room resistance	No visible change	As per guidelines of IS 15204b
3	Impact strength of Fall height 1.5m (Failure height: none)	27 0.2	As per guidelines of IS 14493
4	Rockwell hardness, R scale	18	As per guidelines of ASTM D 363
5	Fungal Resistance		

Cover below:

TEST RESULTS

Fungal Resistance
As per guidelines of ASTM G-21
Aspergillus niger
Penicillium chrysogenum
Aspergillus fumigatus
Chaetomium globosum
Cladobotryum sp.

Test conditions:
Incubation temperature: 25°C for 28 days
Observation: No growth was observed of any of the test organisms.

Rating: Interpretation: 0 (No fungal growth observed)
As there was no fungal growth observed. The sample is resistant to growth by the microorganisms employed in the test. Hence the sample is passed the test.

U.O.R.: 27.06.2014
D.O.C.: 20.08.2014

AUTHORISED SIGNATORY
(EMPLOYEE CODE 14963)

Ph: 91-11-27667267, 27667983, 27667860
Fax: 91-11-27667676, 27667207 P.T.O.

Fire Test Certificates

QMA TRLP 5.1-350
Version: 1
01.08.2011

Produkte
Products



13014691 001

Page 2 of 27



Prüfbericht - Nr.: 13014691 001		Seite 1 von 7	
Test Report No.:		Page 1 of 7	
Auftraggeber: Client:	SILVER INTERNATIONAL PRIVATE LIMITED J-123, Bhaiya's, 2nd Floor, Ashok Vihar, Phase-1, Delhi – 110052 .India.		
Gegenstand der Prüfung: Acrylic Solid Surface Test item:			
Bezeichnung: Identification:	GR-101 (Pure White)	Serien-Nr.: Serial No.:	n.a. (prototype)
Wareneingangs-Nr.: Receipt No.:	133035418	Eingangsdatum: Date of receipt:	20.11.2018
Zustand des Prüfgegenstandes bei Anlieferung: Appearance is good. Condition of test item at delivery:			
Prüfört: Testing location:	CENTRUM STAVEBNIHO INZENYRSTVI a. s. (Notified Body No. 1390)		
Prüfgrundlage: Test specification:	EN 13501-1+A1 : 2010		
Prüfergebnis: Test Result:	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). The test item passed the test specification(s).		
Prüflaboratorium: Testing Laboratory:	TÜV Rheinland Korea Ltd. E&C Venture Dream Tower 6 197-28, Guro-dong, Guro-gu, Seoul, 152-719, Republic of Korea		
geprüft/ tested by:		kontrolliert reviewed by:	
27.01.2014	S.Y. Lee / PE	28.01.2014	S.Ht Yang / Manager
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date
			Name/Stellung Name/Position
			Unterschrift Signature
Sonstiges/ Other Aspects: Report has been prepared based on the CSI report nr. PK-14-005, 16999-1,2,3			
Abkürzungen:	<i>Pass</i>	entspricht Prüfgrundlage	Abbreviations:
	<i>fail</i>	entspricht nicht Prüfgrundlage	<i>Pass</i>
	<i>NA</i>	nicht anwendbar	<i>failed</i>
	<i>NT</i>	nicht getestet	<i>NA</i>
			<i>NT</i>
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.			

Test method : EN ISO 11925-2

Appearance : White tiles 300mm x 300mm of thickness 12 mm and density 1,750 kg/m³

The flame application time : 35s

Conditioning of the test specimens : according to the EN 13238, clause 4.2.

Measured values and the test results

Surface flame attack Sample No. :	Lengthwise orientation			Across orientation		
	1	2	3	1	2	3
Ignition of the sample :	no	no	no	no	no	no
Reaching the mark (s) :	(-)	(-)	(-)	(-)	(-)	(-)
Ignition of the filter paper :	no	no	no	no	no	no

(-) : flame tip did not reach the mark

Observation during the test : The test specimens did not ignite by the effect of the ignition source.

Conclusion : The test results relates to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product of use. The results of tests are concerned only with the subject of testing.

Test method : EN 13823

Appearance : White tiles 300mm x 300mm of thickness 12 mm and density 1,750 kg/m³

The tiles were mechanically fixed with steel screw on the standard substrate according to EN 13238 — paper faced gypsum plasterboard of thickness 12.5mm

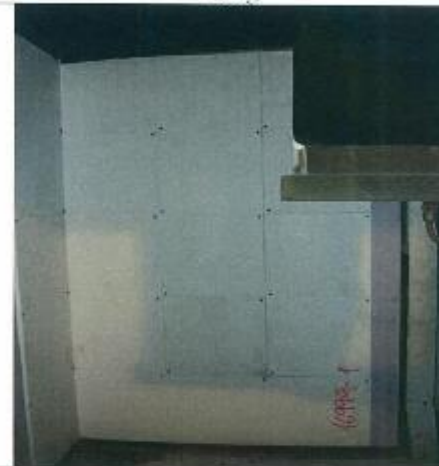
Conditioning: according to the EN 13238

MEASURED VALUES AND TEST RESULTS					
Test specimen no.	1	2	3	∅	Expanded uncertainty
Date of test	01-13	01-13	01-13		
LFS > edge	no	no	no	no	(-)
FIGRA _{0,2 MJ} [W/s]	36,5	38,7	35,9	37,0	6,3
FIGRA _{0,4 MJ} [W/s]	36,5	38,7	35,9	37,0	6,3
THR ₆₀₀ [MJ]	5,5	5,6	5,5	5,5	0,1
SMOGRA [m ² /s ²]	0	0	0	0,0	(-)
TSP ₆₀₀ [m ²]	6,2	7,5	6,4	6,7	0,8
Flaming droplets/particles	no	no	no	no	(-)
Time of flaming [s]	0	0	0	0,0	(-)
Behaviour during the tests: The flame spreads vertically along to surface.					

Conclusion : The mentioned expanded uncertainty is obtained by multiplying the standard uncertainty by a coverage factor k=2, which corresponded to a level of confidence of 95%.

The test results related to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product of use. The results of tests are concerned only with the subject of testing.

The photograph of the exposed surface of long wing



The photograph of the exposed surface of short wing

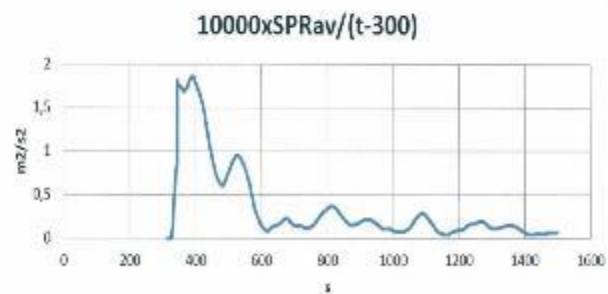
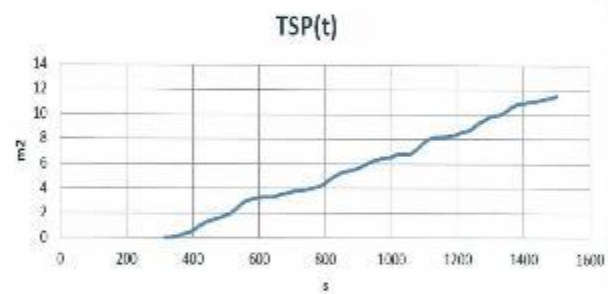
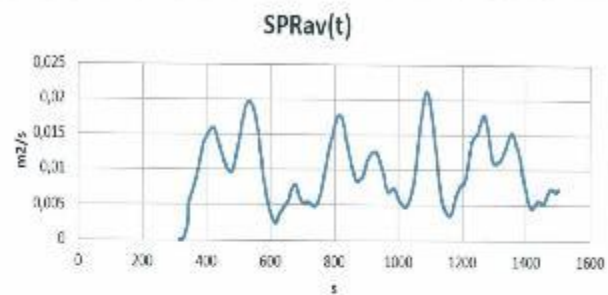
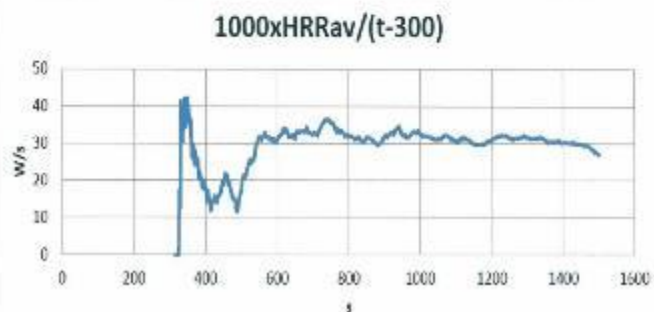
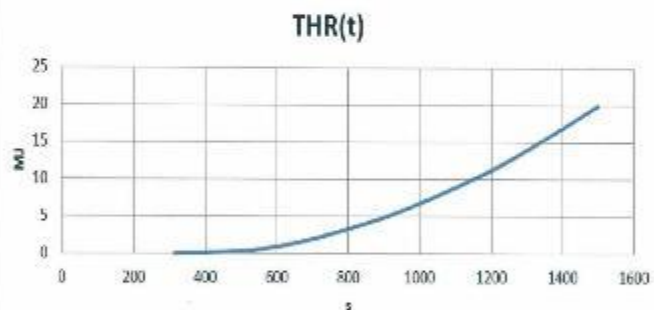


The photograph of the exposed surface taken from the opposite of corner line



The photograph of the test specimen after the testing





Test results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
ČSN EN ISO 11925-2 exposition = 30 s	$P_e \leq 150 \text{ W/m}^2$	6	yes	yes (B to D)
	$P_e \leq 150 \text{ W/m}^2$	6	yes	yes (B to D)
	ignition of the filter paper	12	no	no (d0)
ČSN EN 13823	$FIGRA_{0,2-300}$ (W/s)	3	37,0	≤ 120 (B)
	LFS = edge	3	yes	yes (B,C)
	$THR_{300,2}$ (MJ)	3	5,5	$\leq 7,5$ (B)
	$SMOGR_A$ (m^2/s)	3	0	≤ 30 (s1)
	$TSP_{300,2}$ (m^2)	3	6,7	≤ 50 (e1)
	flaming droplets / particles [s]	3	no	no (d0)

^{H1} surface flame attack
^{C1} edge flame attack

Classification and Direct field of application

Reference

This classification has been carried out in accordance with the clause 11.5, 11.9.2 and 11.10.1 of EN 13501-1+A1 : 2010

Classification

The product Acryl Solid Surface in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for Acryl Solid Surface is:

Fire behaviour	Smoke production			Flaming droplets		
	B	-	s	1	-	d
	B	-	s	1	-	d

Reaction to fire classification: B-s1, d0

Field of application

The classification is also valid for the following product parameters

- thickness: ≥ 12 mm

This classification is valid for the following end use conditions:

- fixed directly on the substrates of reaction to fire class at least A2-s1, d0 or A1



- Known for quality and excellent products
- Comes from the house of Aludecor, well established ACP brand in India
- Pan India presence
- Focus on bringing newness, beauty and luxury
- Focus on introducing latest and innovative product range in the market
- Reputation for adherence to business ethics and transparency in all the dealings and associations
- We offer diverse product range for wide-ranging requirements of our clients

Our Clientele



भारतीय स्टेट बैंक
State Bank of India
हर भारतीय का बैंक
THE BANKER TO EVERY INDIAN



AIRPORTS AUTHORITY OF INDIA



Our Reach - Dealers

Agra	Ahmednagar	Akola	Ambala
Amravati	Aurangabad	Bareilly	Bengaluru
Bhubaneswar	Chandigarh	Delhi	Ghaziabad
Gurugram	Guwahati	Hisar	Jaipur
Jalgaon	Jamshedpur	Karnal	Kolhapur
Kolkata	Lucknow	Ludhiana	Meerut
Mumbai	Nagpur	Nanded	Nasik
Noida	Panipat	Patna	Pune
Raipur	Ahmedabad	Siliguri	Sirsa
SriGanganagar	Thane	Vadodara	Surat



**THANK
YOU**

An illustration showing two hands, one on the left and one on the right, holding up a rectangular orange banner. The banner is held by black vertical bars. The hands are light-skinned and are wearing dark suit sleeves with white cuffs. The background is a solid light blue color. The text 'THANK YOU' is written in large, bold, white capital letters on the orange banner.