



LUMINATE
EXTERIOR CLADING



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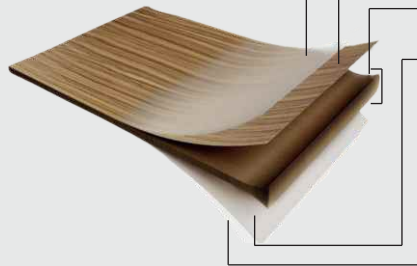
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TECHNOLOGY

To reinforce our claims of strong and sturdy surface, we make use of the latest technology for all our products. These exterior façade surface are durable to the core. Making them strong enough to withstand Extreme weather conditions. The range has a UV-Resistant top Coating treated with poly vinylidene (PV) and acrylic layers to protect the décor surface from fading. The product is manufactured under high pressures and temperatures to yield an exceptionally durable and dense panel.



High Performance UV & Weather Resistant Film for Surface Protection.

Décor Paper Impregnated with amino plastic Resin.

Special Imported Kraft Paper Layers Impregnated with Thermosetting Phenolic resin.

Décor Paper Impregnated with amino plastic Resin.

High Performance UV & Weather Resistant Film for Surface Protection.

FEATURES



CLIMATIC SHOCK RESISTANT
Nothing can shock these surface. Not even sudden changes in temperature and humidity.



IMPACT RESISTANT
It is Impact Resistant and has a very good modulus of elasticity due to the modified phenolic resin.



GRAFFITI RESISTANT
Any writing marks made on the surface can be Easily removed using soap water or hot water.



WEATHER RESISTANT
Be the Heat, Humidity, or Extreme cold, These Surface can handle it all.



FIRE-RETARDANT
These surface come with BS1DO the best in the category fire rating. Rest assured they won't go to down in flames when in contact with heat and fire.



MOISTURE RESISTANT
Highly Moisture resistant hence, ideal for use in all type of exterior Cladding.



TERMITE-RESISTANT
Highly Resistant to termite and fungal attack.



UV- RESISTANT
A Special UV Protected treatment makes the claddings UV Resistant and prevents Discoloring under long Exposure to direct sunlight.



ABRASION RESISTANT
It has Superior abrasion and ware resistance capabilities which gives it good lifespan.

APPLICATION

APPLICATION AREA:

- ▶ CEILING
- ▶ BALCONY
- ▶ ELEVATIONS
- ▶ RAILINGS
- ▶ FENCING
- ▶ COMPOUND WALLS AND OTHER
- ANY WALLS AND SURFACE

- ▶ COLUMNS (PILLARS)
- ▶ DOORS
- ▶ GATE
- ▶ ENTRANCE
- ▶ Partitions

- ▶ HEALTHCARE
- ▶ SHOPPING MALLS
- ▶ AIRPORTS
- ▶ COMMERCIAL SPACES

- ▶ RESIDENCE
- ▶ HOTEL
- ▶ OFFICE BUILDING
- ▶ STOREZV

SECTORS:

SETTING UP OAKLAM: The OAKLAM panels behave like wood in changing weather conditions. They expand when absorbing moisture and contract in dry air discharging moisture. Taking into consideration these properties, during installation the appropriate compensation clearance should be applied (the expansion gaps between panels 6-8 mm), assuring a possibility of uniform expansion of panels.

RIVETED: A tried-and-tested method that makes use of PU-coated rivets that make the panels strong and durable when installed. OAKLAM panels of 6mm, are suitable for riveted system on an aluminium substructure. This system is applied to high rise buildings.

Installed with rivets on an aluminium Box Section substructure

Installed with rivets on an aluminium L & T Section substructure (Practiced in other countries)

ADHESIVE: For a clean and sharp look, that's relatively affordable, 3M or equivalent adhesive is used to fix the panel. An alternative to visible mechanical fixing with rivets is gluing the OAKLAM panels with gluing systems specifically developed for this purpose. It works on normal planed aluminium sub-constructions. Gluing is a clean and simple solution for rear-ventilated facades, attics, visible roof under faces, reveals, etc.

Wood Collections



SHADE CODE - 8230



SHADE CODE - 4002



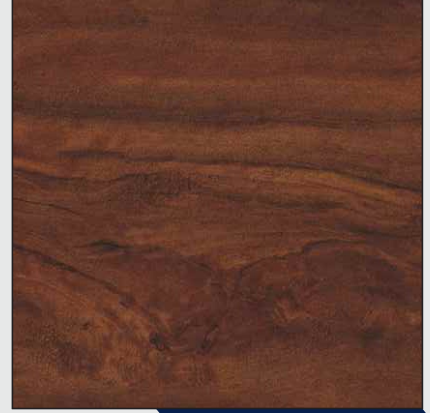
SHADE CODE - 4007



SHADE CODE - 4008



SHADE CODE - 7014



SHADE CODE - 4010



SHADE CODE - 7008



SHADE CODE - 4003



SHADE CODE - 7028



SHADE CODE - 7015



SHADE CODE - 4016



SHADE CODE - 4001

Wood Collections



Shade Code 722



CLASSIC TEAK - 7003



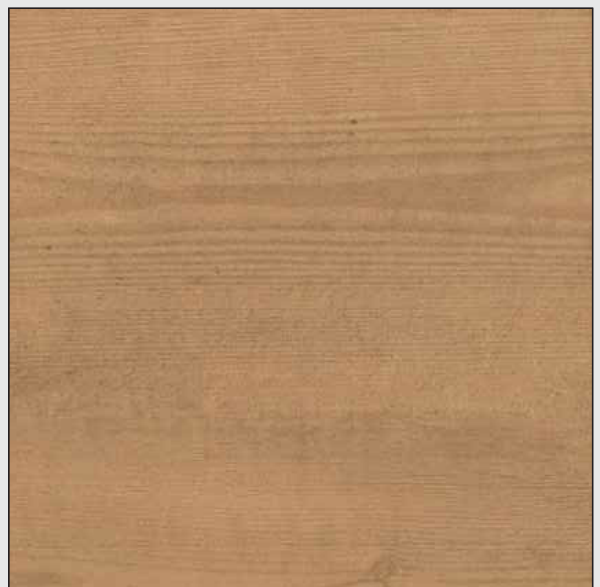
OAK CREMA - 7027



CLASSEN SOLIDO - 7018



DARK GREY TEAK - 8020



GOLDEN OAK - 7007

Abstract & Stone Collections



QUAR STONE - 6028



WHITEOXIDE - 6031



CALACATTA MARBLE - 6020



LIGHT GREY MARBLE - 6023

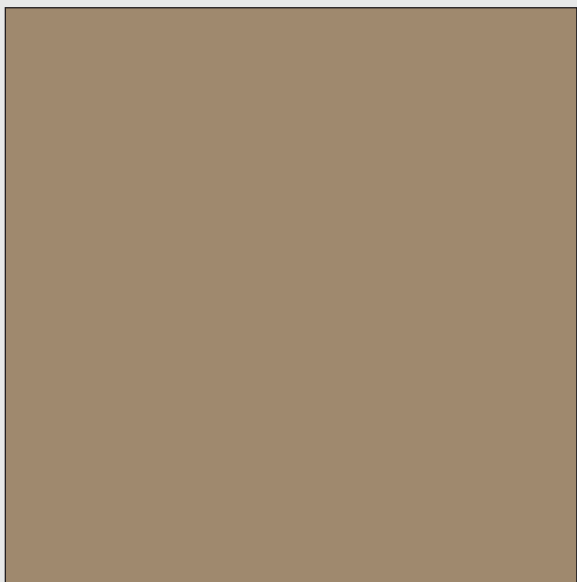


ARCTIC BROWN STONE - 6010

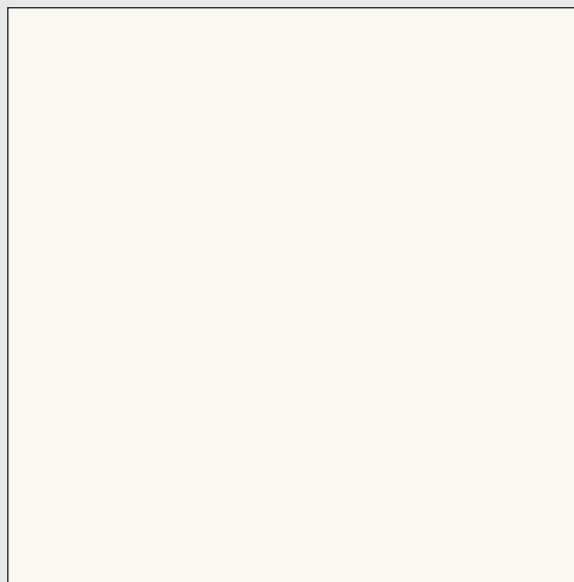


SLATE GREY MARBLE - 6024

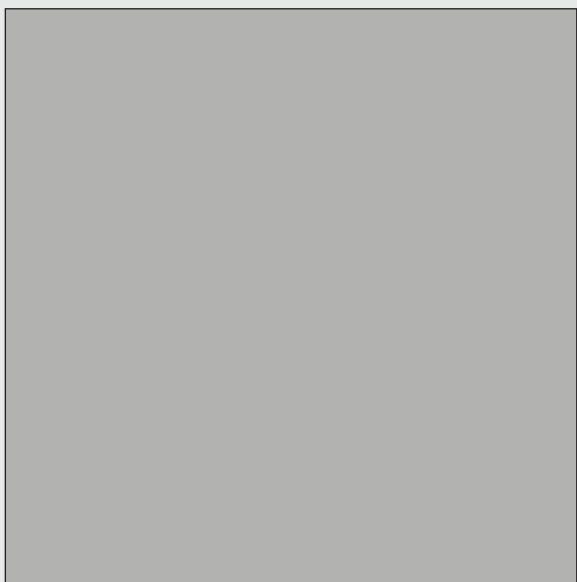
Solid Collections



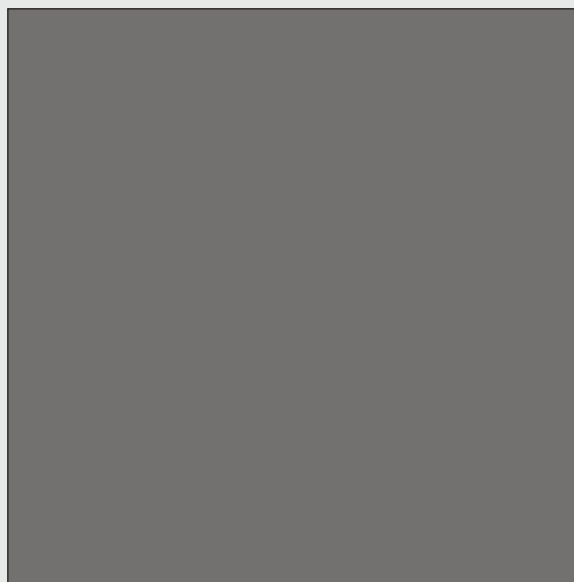
TAN - 1010



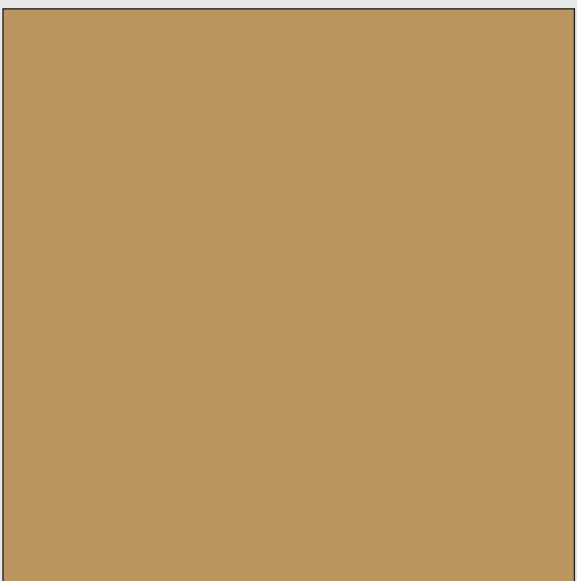
EGG WHITE - 1002



DARK GREY - 1004



SLATE GREY - 1005



SANDAL - 1011



COFFEE - 1012

PHYSICAL DATA

Properties	Test Method	Assessment	Standard Value	Actual Value
Light-fastness and weather resistance (NT surface)				
Artificial weathering	EN ISO 4892-2 3000 h	EN 20105-A02 greyscale	≥ 3	<u>4-5</u>
UV-light resistance	EN ISO 4892-3 1500 h	EN 20105-A02 greyscale	≥ 3	<u>4-5</u>
Mechanical Properties				
Apparent density	EN ISO 1183-1	g/cm ³		1,45
Flexural strength	EN ISO 178	Mpa	≥ 80	≥ 90
Modulus of elasticity	EN ISO 178	Mpa	≥ 9.000	≥ 9.500
Tensile Strength	EN ISO 527-2	Mpa	≥ 60	≥ 80
Coefficient of thermal expansion	DIN 52328	1/K		18x10 ⁻⁶
Thermal conductivity		W/mk		0,3
Water vapour diffusion resistance				ca. 17.200
Fire behaviour				
Europe	EN 13501-1	MA39-VFA Vienna	Euroclass B-s2, d0 for 6-15 mm	
Austria	ONORM B3800/Part 1	Austrian Plastics Institute	B1, Q1, TR1, ≥ 2 mm	
Switzerland		Sicherheitsinstitute	Fire Classification 5 (200 C).3	
Germany	DIN 4102	MPA Hannover	B1 for 4-10 mm	
France	NFP 92501	LNE	M1 for 2-20 mm	
Permits				
Facade permit, Germany		Institute for Construction, Berlin	6, 8, 10 mm, Permit no. Z-33.2-16	
ETB guidelines for building components which safeguard against falls, June 1985. Balcony railings		TU Hannover	Passed (depending on building regulation and railing construction 6, 8 or 10 mm panel thickness)	
Avis technique, France		CSTB	6, 8, 10 and 13 mm, wood and metal subconstruction, Permit no. 2/07-1264, 2/07-1265	



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