

Stoneflex Architectural Panels



Glass fibre reinforced polyester panels with an attractive natural stone surface

URP

STONEFLEX



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Stoneflex is a glass fibre reinforced polyester resin cladding panel built up to provide a surface finish of natural stone. The panels are manufactured by a continuous process whereby a substrate of glass fibre and granulated stone chippings is built up, resin impregnated and consolidated. Stone chippings are then resin bonded to the outer surface and the panels are oven cured. The Stoneflex panels are certified under **ISO 9001 : 2000**.quality management system

Fire rated to class 0



Chemical & rot proof



Quick & easy to fix



Impervious to moisture



Maintenance free & Will not delaminate



Cost effective & High impact value



Long lasting



Factory finished for consistent quality



Unaffected by extremes of climate

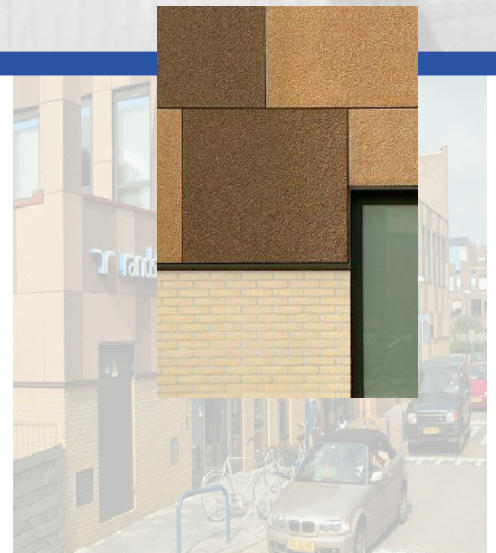


Strong yet lightweight



Stoneflex URP Ltd was founded in 1991 to manufacture Architectural Panels for the Construction Industry. More than ten years on Stoneflex market their products in 12 countries including the UK, in most cases through independent distributors.

Stoneflex Architectural Panels have been used throughout the UK and, through an extensive network of distributors, across Europe, Scandinavia and the United States of America. They have been used on single storey buildings and high-rise blocks of over 40 floors in the leisure build, public housing, hospital and education sectors. They are the most cost effective cladding solution for new build or refurbishment.



Technical Properties

Strong yet Lightweight

Stoneflex panels will withstand a wind load up to 2.0kn/m² at normal fixing centres. The impact resistance is class: hard and soft bodies (to BS 8200, Appendix G) Cat C. The weight varies with aggregate grade from 9.5k/m² to 17.0k/m².

Fire

Stoneflex panels are fire rated. If it is a STONEFLEX panel then you are guaranteed that it has a Class 1 surface spread of flame to BS476 Part 7 Class 0 to the Building Regulations when tested to BS476 Part 6.

Weathering

There are no significant changes in properties following accelerated weather tests giving the equivalent of seven years weather exposure.

Biological

Stoneflex panels are inorganic, rot proof, immune to attack by insects and vermin and will not nourish mould growth.

Wind

Calculation based on mechanical tests have shown that the cladding will adequately resist normal wind forces for locations within the UK where a design wind speed of no more than 57m/s produces pressure no greater than +/- 2.0kn/m² as calculated in accordance with CP3 Part V.

Compatibility

Stoneflex panels are compatible with all common buildings materials and are fixed using traditional building methods.

Warranty for 20 years

Stoneflex URP Ltd warrants that its panels will be free of manufacturing defects for 20 years from the date of installation. This warranty is in effect only if the panels are installed in accordance with Stoneflex Recommended Procedures and established construction practices. Under normal use and exposure Stoneflex panels are warranted not to chalk, discolour, crack or incur unacceptable aggregate loss for ten years.



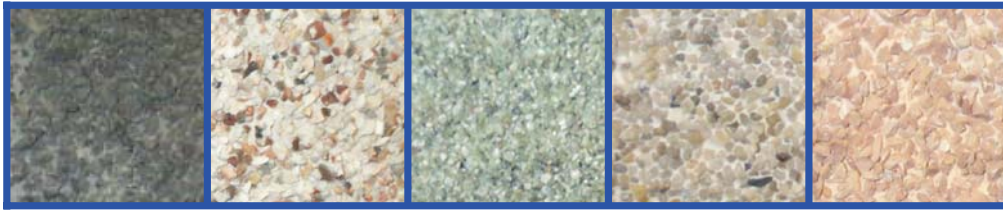
Property	Test Description	Result
Nominal Dry Density		1950Kg/m ³
Effect of Moisture	Moisture Movement Dry (25%C, 35% RH) to saturated Water absorption dry to saturated Water tightness to BS 4624 Part 981 Clause 15	0.2% or 2mm/m 1.8% by weight Permeable to water initially (48h) self sealed
Fire Performance	Building Regulations Performance Fire Propagation BS 476 Part 6 1981 Surface spread of flame BS 476 Part 7 1987	Class 0 1<12, 1<6 Class 1
Thermal Performance	Thermal expansion between -20 °C and +80°C (ASTM C531)	Not greater than 20x10 ⁻⁶ per °C
Flexural Strength	Dry	Greater than 73MN/m ²
Resistance to Freeze/Thaw Cycling	50 cycles @ -20°C to + 20°C then water saturation (BS 402 Appendix D ¹ 1990)	No loss of aggregate or cracking or delamination of GRP

Accelerated weathering to ASTM G53-84 for 1000 hours exposure paler decolouration to base of panel, otherwise no apparent change.

Aggregate Size		Minimum Thickness		Weight	
Fine	2-4mm	Fine	6mm	Fine	9.5k/m ²
Standard	4-6mm	Standard	7mm	Standard	11.5k/m ²
Large	6-9mm	Large	10mm	Large	17.0k/m ²



10 Natural Aggregate Colours



Java Grey French Rouget Swedish Green Nordic Spar Mexican Pink



Indian Ivory Smokey Mountain Grey Boston Brick Sahara Beige Bermuda White

Available in a choice of 10 aggregate colours

Stoneflex panels are available cut to size up to 1200mm wide and 3500mm long. Longer panels are available to special order subject to quantity. Corner pieces in matching material can be supplied. Thickness and weight depend upon the size of aggregate used.

Stoneflex Architectural Panels have been used for:

New Build

- Office Buildings & Corporate headquarters
- System build housing
- Hospitals & community health centres
- Schools & Colleges
- Churches
- Bedroom block extensions (hotels & pubs)
- Prisons
- Leisure building, public amenities

Refurbishment

- Rebuilding pre-fabricated bungalows
- Re-cladding pre-fabricated BISF houses
- Re-cladding pre-fabricated schools
- Re-cladding high rise housing blocks
- Re-cladding high rise office blocks
- Re-cladding hospital buildings

Other products from Stoneflex URP Ltd

Smoothflex Architectural Panels

External grade, high pressure laminate, wall panels

Unishield

Single skin, built up and composite roof & wall products

Stoneflex Brick Effect Panels

Stoneflex Architectural Panels with a brick effect natural stone aggregate surface.

Anti-Slip

Anti-slip floor panels have a fine high grip granular finish, ideal for steps and ramps



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