LITHO DECOR

TellingRainscreens

Festuca House, East Village (formerly Olympic Village) Design: Howarth Tompkins

Telling Rainscreens glass and natural stone lightweight cladding solutions

Telling Rainscreens is a multidisciplinary market leader headed by a team of engineers with over three decades of experience designing facade systems.

A deep knowledge of the market has taught us to prioritise quality and leading technology and these are values at the forefront of every single one of our partnerships.

Wellington Place, Leeds | Design: Sheppard Robson

Litho-stone and Litho-glass are our proposals for projects where natural stone and/or glass are sought.

Manufactured by Lithodecor in one of the most technologically advanced factories in Germany, Litho-stone and Litho-glass are lightweight large format facade panels part of a fully tested cladding solution suitable for new builds and refurbishments alike.

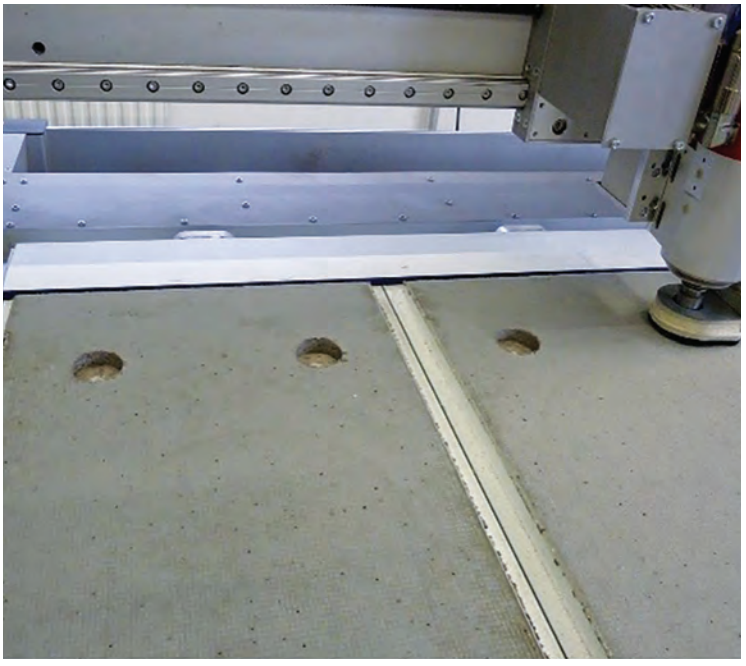
Our systems are tested for impact and can be produced as A2-s1 d0 for panel above 4 storeys or lower if required and they are produced as standard in a B1 class according to DIN 4102-1 for a flame-retardant panel below this height, if acceptable to the fire officer and client team as standard.

Manufactured in Germany, Lithodecor's stone production facility combines state-of-the-art industrial production technology with the skilled hand-finishing of materials associated with traditional manufacturing.

A production facility that has been operational for over 30 years in the hands of craftsmen, engineers and a dedicated development research team who pride themselves for bringing into the market a versatile high quality material.

Cutting

Calibrating



CNC Processing

Litho-Stone Principles

Manufactured in Germany, Lithodecor's stone production facility combines state-of-the-art industrial production technology with the skilled hand-finishing of materials associated with traditional manufacturing.

A production facility that has been operational for over 30 years in the hands of craftsmen, engineers and a dedicated development research team who pride themselves for bringing into the market a versatile high quality material.

System:	**Pre-hung ventilated facade system with natural stone panels on a lightweight concrete substrate.**
Properties:	**Compensation of unevenness thanks to flexible substructure, weather and frost resistant.**
Fastening:	**Non-visible fastening on an aluminium substructure.**
Finish:	**Upon request and customer's wish.**
Thickness:	**25 to 34 mm (+/- 1 mm) depending on stone thick-ness.**
Format:	**Facade application up to 7.7 m^2 slab size, depend-ing on rough stone format, maximum dimension 1800 x 4300 mm.** **Soffit application up to 5.26 m^2 slab size, depend-ing on rough stone format, maximum dimension 1300 x 4050 mm.**
Weight:	**46 to 72 kg/m^2 depending on design and stone thickness. 60% Lighter than traditional natural stone façade solutions.**
Approval:	**Z – 10.3-817.**
Therman insulation:	**Mineral wool insulation (WLG 032 and 035).**
Fire behaviour:	**Non-combustible building material class A2-s1 d0 according to DIN EN 13501. Or a flame-retardant building material class B1 ac-cording to DIN 4102-1 as standard.**
Impact resistance:	**E5 – classification possible, DIN 14019, highest re-sistance to mechanical impact.**
Tolerances:	**Flatness: +/- 3-4 mm / m Width / length: +/- 1 mm Reveal depth: +/- 1.5 mm Angular deviation of the angle connection: +/- 0.5 °**

Litho-Stone. Upcycling

In a tirelessly effort paramount to the companies' green values, the research and development team responsible for the Litho-Stone technology has recently developed Litho-Stone Upcycling.

A sustainable approach to refurbishment consisting of a technological and highly skilled process that involves dismantling existing slabs which are then fabricated in a factory environment and integrated into the Litho-Stone system..

Before

After

Facts and Advantages

Reuse of valuable natural stone raw material

Landfill and general waste reduction and disposal costs

Exhausted natural stone quarries can be preserved

Increased absorption of impact loads on the panels thanks to the composite system vs. natural stone only slab

Reduction of the total weight of the natural stone slabs by up to 60%

Suitable for any construction projects but particularly suitable for renovations with problematic substrates

General building authority approved

Farringdon Station, London Underground | Design: Atkins

Southside Shopping Centre, Wandsworth, London | Design: Leslie Jones Architecture

Litho Glass

Manufactured in Germany, Litho-Glass is a resistant sheet of 8mm toughened safety glass (ESG-H) laminated onto a specially developed lightweight concrete substrate. The resulting façade panels have a maximum thickness of 27 millimetres and measure up to 7.74 m^2 and are secretly fastened and are one of the components of a mechanical fixing system.

Litho-Glass' technical appeal is matched by its architectural versatility. From large format panels to a rich palette of colours and even bespoke designs with digital printing.

Litho - Glass Principles

System:	Ventilated glass curtain wall with ESG-H glass el-ements on lightweight concrete substrate.
Properties:	Compensation of unevenness due to flexible sub-structure, weather-resistant, frost-resistant.
Fastening:	Non-visible fastening on an aluminium substruc-ture.
Finish:	Enamelling, screen printing or digital printing.
Thickness:	25 to 29 mm (+/- 1 mm) depending on design.
Format:	Facade application up to 7.7 m^2 slab size, depend-ing on rough stone format, maximum dimension 1800 x 4300 mm. Soffit application up to 5.26 m^2 slab size, depend-ing on rough stone format, maximum dimension 1300 x 4050 mm.
Weight:	46 or 54 kg/m^2 depending on design and panel size.
Approval:	Z – 10.3-743.
Therman insulation:	Mineral wool insulation (WLG 032 and 035).
Fire behaviour:	Non-combustible building material class A2-s1 d0 according to DIN EN 13501. Or a flame retardant building material class B1 ac-cording to DIN 4102-1 as standard.
Impact resistance:	E5 – classification possible, DIN 14019, highest re-sistance to mechanical impact.
Tolerances:	Flatness: +/- 3-4 mm / m Width / length: +/- 1 mm Reveal depth: +/- 1.5 mm Angular deviation of the angle connection: +/- 0.5 °

Guildhall Southampton

Enderby Wharf, London | Design: HLM Architects

MCR Medical Centre, Rhauderfehn

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