



Case Study

Collano puts the glow into Luminoso Innovative design solutions

Luminoso, the wood that glows, is set to revolutionise interior design solutions – whether for walls, ceilings, floors, information panels and trade-fair displays, information and signage, or for shipbuilding and aircraft interiors. Thin layers of wood are bonded firmly together. Optic fibres are placed between each layer. The composite panel transmits the light impinging on the optic fibres.

Shadow play for creative minds

Luminoso is entirely wood, yet entirely different, because it transforms walls, floors and ceilings into unique display areas. Objects, images and shapes positioned between the light and the Luminoso block out the light and create fascinating shadow plays. Luminoso has been nominated for the highly prestigious German Design Prize 2010.

Collano A 2125, the specialty adhesive

Luminoso wood composite panels are made by firmly bonding thin layers of wood together. Collano teamed up with Fussenegger to test Collano A 2125, a 2-component PUR, to ensure that pressing times are always the same despite seasonal variations in room temperatures. The closely specified processing parameters, such as curing and pot life, make for a dependable, predictable production process. Another advantage of Collano A 2125 is that it can be dyed to the colour of the wood. «Adhesion to the optic fibre web is excellent and the light can be transmitted at the speed of light with hardly any losses», says Florian Fussenegger, production manager, extolling the virtues of Collano A 2125.

Collano – your partner for smart bonding.

Collano Adhesives: Innovative custom adhesives for applications in Construction, Composites, Label/Tape/Packaging, Protective Systems, Technical Textiles, Apparel, and Foams. Collano Adhesives belongs to the Collano Group which employs 340 persons around the world and generates sales of CHF 140 million.



Light and shadow at play: The wood material containing embedded optic fibres transmits daylight and direct sunlight.

Technical data in brief

Project:	Wood composite panels for innovative interior solutions
Year:	2010
Partner:	Fussenegger Holzbau GmbH, 6850 Dornbirn Austria
Country:	Austria
Application:	High-strength bonding of thin layers of wood and optic fibres
Product:	Collano® A 2125
Internet:	www.luminoso.at
Properties:	2C PUR adhesive with narrow processing specifications, e.g. curing, pot life and pressing times