

PROJECT HIGHLIGHT

CASE STUDY



RESTORATION AND MODERNIZATION WITH FAÇADE & ROOFING SOLUTION

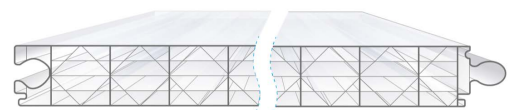
The market area where local producers sell primary necessities had to be renewed as these producers were still located in the basement area of the building. The new area will gain more visibility and growth as a result of the increased number of customers.

The architect created external façades as a new skin to achieve a new look and created new external covers to facilitate sales outside the main building.

PRODUCT SOLUTIONS:

FAÇADE:

Light transmissible, weatherable, and impact resistant LEXAN™ THERMOCLICK™ 40MM polycarbonate sheets were an ideal choice for the vertical façade glazing part of the building. Eliminating the framing between the sheets, created a unique modern look to the building.



LEXAN™ THERMOCLICK™ 404X polycarbonate sheet

ROOFING:

For the roof structure of the building (glazing part) LEXAN™ THERMOCLEAR™ 325X sheet was chosen. Next to the high impact strength, the product provides sun protection to reduce heating of the covered area and allows a comfort of use.



LEXAN™ THERMOCLEAR™ 325X polycarbonate sheet



PRODUCT FEATURES:

- Blocks near infrared heat with high light transmission
- Outstanding thermal insulation properties
- Easy installation (inter-connecting system for THERMOCLICK™ Sheet)
- Energy & heat saving
- Excellent impact resistant
- UV protected & Flame retardant
- Easy to clean
- Durable
- Limited 10-years warranty against loss of transparency and weatherability

Architect studio: MrKc Market Consulting Lda

“The option for the application of LEXAN™ polycarbonate was a natural act considering the scenic characteristics that we intended to adopt in the new facades, combined with the fact that it allowed the pass of natural light with UV protection and thermal protection.

The end result was exactly as we expected.”

Mr Miguel Mastbaum Aresta Branco
Responsible architect

COLOR

Both products have a transparent/green Solar Control IR color which blocks near infrared heat, but lets in high levels of light.

The color reduces infrared (IR) transmission by 25% more than standard LEXAN™ Sheet, it helps save costs of cooling and lighting buildings which makes it very energy efficient.

RESULTS

The architect used 2,680 m² LEXAN™ THERMOCLICK™ sheet for the vertical façade glazing with its unique ‘X’ structure of connecting webs between 5 walls, which can maximize their rigidity and impact strength without any noteworthy reduction of light transmission.

The horizontal roof lights cover a total area of 1,575 m² with LEXAN™ THERMOCLEAR™ 325X sheet. This material offers remarkable impact strength, long-term weather resistance and, due to the multi-wall construction, outstanding thermal insulation properties.



MORE INFORMATION:

SABIC

Functional Forms - GET
Plasticslaan 1
4612PX Bergen op Zoom
E: ff.info@sabic.com
www.sabic.com/ff

DISTRIBUTOR

AGI – Augusto Guimarães & Irmão, Lda
Av. Combatentes do Ultramar Português, N.º 1001
4405-942 Vila Nova de Gaia, Portugal
T. +351 22 753 74 0
E: geral@agi.pt
www.agi.pt



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