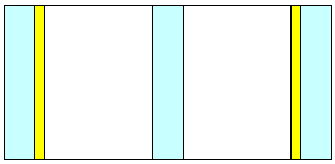
SAINT-GOBAIN GLASS
http://www.saint-gobain-glass.com

16-02-2010

## Glazing design




| | A-First glazing | B-Second glazing | C-Third glazing |
|---|---|---|---|
| Gas-filled cavity | | Argon 85% 14 mm | Argon 85% 14 mm |
| Coating | | | PLANITHERM ULTRA N |
| First pane | PLANILUX 4.0 mm | PLANILUX 4.0 mm | PLANILUX 4.0 mm |
| Coating | PLANITHERM ULTRA N | | |
| Layer | | | |
| Second pane | | | |
| Coating | | | |

## Manufacturing sizes

| | | |
|---|---|---|
| Nominal thickness : | 40.0 | mm |
| Weight : | 30.0 | kg/m² |

## UV factor

| | | |
|---|---|---|
| Transmittance : | **21** | % |

## Light factors

| | | |
|---|---|---|
| Transmittance : | **72** | % |
| Outdoor reflectance : | **14** | % |
| Indoor reflectance : | **14** | % |

## Energy factors EN 410

| | | |
|---|---|---|
| Transmittance : | **41** | % |
| Outdoor reflectance : | **30** | % |
| Absorbtance A1 : | **17** | % |
| Absorbtance A2 : | **6** | % |
| Absorbtance A3 : | **6** | % |
| Solar factor g : | **0.50** | |
| Shading coefficient SC : | **0.57** | |

## Thermal transmission

| | | |
|---|---|---|
| Ug : | **0.7** | W/(m².K) |

Calumen® 2.7

Certified by the Fraunhofer Institut
Certified by TNO S&I

This Calumen program has been approved by TNO S&I to do ITC (Initial Type Calculations), for the purpose of an ITT Report according to EN 673 and EN 410 intended uses. Ref. Report TNO No TC-RAP-06-17286/mso

The Calumen software calculates the spectrophotometric values of Saint-Gobain Glass products, and of combinations of those products. It is the responsability of the user of this software to check if the intended use of the product is allowed, in respect with the current domestic regulations and standards. Saint-Gobain Glass cannot be considered as responsible if the software is used for wrong applications of glass products.

These values are calculated according to standards EN 410 (luminous and energy values) and EN 673 (thermal transmittance Ug). These computed values are average values, given for indicative purposes only and are subject to modifications. These computed values are average values, given for indicative purposes only and are subject to modifications. The tolerance is +/-3% for the values of the light and energy factors and +/- 0.1 W/m².K for the value of the Ug coefficient.