



CALUMEN® PRO

Guía de uso
Marzo 2025

SAINT-GOBAIN GLASS

¿CÓMO USAR CALUMEN PRO®?

PANTALLA INICIO

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Calumen Pro

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SAINT-GOBAIN

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Your data and your rights

Favorite Projects

Sky Tower ★
7 configuration(s)

Ormas ★
6 configuration(s)

Berliner Train Station ★
5 configuration(s)

Vivo Lia ★
4 configuration(s)

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1

Proyectos favoritos

Recent computed configurations

0 selected

Open in configurator

Product sheet

Compare

List Grid

Name	TL	g-value	Ug	Rw (C,Ctr)	Mechanics	Date	
66.1 ORAÉ (16 Argon 90) 4 ORAÉ EN410:2011 COOL-LITE XTREME 61-29 #4	60	0.28	1.0	39(-1;-5)	-	20/03/2025 15:37:30	...
6 ORAÉ (16 Argon 90) 4 ORAÉ EN410:2011 COOL-LITE XTREME 61-29 #2	60	0.28	1.0	39(-1;-5)	-	20/03/2025 15:34:39	...
6 ORAÉ (16 Argon 90) 4 ORAÉ EN410:2011 COOL-LITE XTREME 61-29 #2	61	0.29	1.0	35(-1;-5)	-	20/03/2025 15:28:44	...
6 ORAÉ (16 Argon 90) 4 EN410:2011 COOL-LITE XTREME 61-29 #2	61	0.29	1.0	35(-1;-5)	-	20/03/2025 15:28:09	...
6 (12 AIR) 6 [Swisspacer Ultimate ... JIS R 3106:2019 COOL-LITE KBT 140 #2	36	0.31	1.8	33(-1;-4)	-	05/03/2025 17:22:23	...
6 (12 AIR) 6 [Swisspacer Ultimate ... JIS R 3106:2019 COOL-LITE KBT 140 #2 / PLANITHERM ULTRA N #3	35	0.27	1.6	33(-1;-4)	-	05/03/2025 17:22:14	...

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Guardado automático – últimas 20 configuraciones calculadas

Configuración de la cuenta y cierre de sesión

CONFIGURADOR DE VIDRIO

CONFIGURADOR

Modificación del catálogo de productos por países y de la norma de cálculo

Modificación del ángulo del acristalamiento (0° - 90°)

Botón para contraer el panel de resultados

Panel de prestaciones

Esquema del acristalamiento

Nombre del acristalamiento

Pestañas de configuraciones (max. 15)

Zona de configuración

The screenshot shows the SAINT-GOBAIN GLASS configurator interface. It features a dark blue sidebar on the left with navigation links: Dashboard, My projects, Find a solution, Configure a glazing (highlighted), and Contact & FAQ. Below these are 'Light mode' and 'Calumen Settings'. The main area is titled 'Draft' and contains a top bar with a breadcrumb trail '* 6 ORAÉ (16 Argon 90) 4 O... > 6 (16 Argon 90) 4' and buttons for 'Restart', 'Settings', and an angle selector set to '0°'. A central diagram shows a cross-section of a window with three panes labeled '6', '16', and '4'. Below this, a text box displays '6 ORAÉ (16 Argon 90) 4 ORAÉ COOL-LITE XTREME 61-29 #2'. A configuration panel at the bottom left, titled 'Substrate', includes dropdowns for 'Type' (ORAÉ), 'Thickness' (6 mm), and 'Thermal treatment' (Annealed), along with a 'Laminated' toggle. To the right of this panel is a 'Coating' section. On the far right, a 'Performances' panel shows various metrics under 'Units' (Metrics, Imperial) and 'Decimals' (Round, Precise). The metrics include Luminous Factors, Energy Factors, Solar Factors, Thermal Transmission, and Acoustics. At the bottom of the interface are buttons for 'Compare', 'Duplicate', 'Save', and 'Product sheet'.

Units	Decimals
Metrics	Round
Imperial	Precise

Luminous Factors	CIE015:2018
Light Transmittance (TL)	61%
Outdoor Reflectance (RLe)	11%
Indoor Reflectance (RLi)	14%

Energy Factors	EN410:2011
Transmittance (TE)	27%
Outdoor Reflectance (Ree)	37%
Indoor Reflectance (Rei)	47%
Absorptance A1 (AE1)	35%
Absorptance A2 (AE2)	1%

Solar Factors	EN410:2011
Solar Factor (g)	0.29
Shading Coefficient (SC)	0.33

Thermal Transmission (Ug)	EN673:2011
Ug	1.0 W/(m2.K)
Angle relative to the vertical	0°

Acoustics	EN 12758
Acoustic measurement values according to EN 12758 and from notified body	
Rw	35 (-1; -5) dB
Ra	34 dB
Ra,lf	30 dB
STC (ASTM E413)	N/A

CONFIGURADOR

Hacer clic con el botón derecho para que aparezcan las opciones (renombrar o duplicar)

« + » Añadir pestañas para configurar varias configuraciones a la vez (hasta 15 simultáneamente)

Propuesta de opciones disponibles, en función de la posición en el acristalamiento y del espesor del sustrato.

Comparar hasta 3 composiciones a la vez directamente desde el configurador para encontrar la mejor opción

Duplicar la configuración para modificarla fácilmente. Se abrirá en una nueva pestaña

Guarda la configuración en proyectos y usala posteriormente

Ir a la página de resultados para exportar la ficha de producto en formato PDF

The screenshot displays the Calumen Pro configurator interface. On the left is a sidebar with navigation links: Dashboard, My projects, Find a solution, Configure a glazing (highlighted), and Contact & FAQ. Below these are sections for Light mode, Calumen Settings, and legal information. The main area shows a window configuration for '6 ORAÉ (16 Argon 90) 4 ORAÉ COOL-LITE XTREME 61-29 #2'. A context menu is open over the window, offering 'Rename' and 'Duplicate' options. A bar chart at the top indicates the thickness of the components: 6, 16, and 4. The configuration details for the substrate are shown: Type (ORAÉ), Thickness (6 mm), Thermal treatment (Annealed), and a Laminated toggle. To the right, a 'Performances' panel lists various metrics under different standards (CIE015:2018, EN410:2011, EN673:2011, EN 12758). At the bottom, buttons for 'Compare', 'Duplicate', 'Save', and 'Product sheet' are visible. Teal arrows point from descriptive text to these specific UI elements.

Units	
Metrics	Decimals
Imperial	Round
	Precise
Luminous Factors CIE015:2018	
Light Transmittance (TL)	61%
Outdoor Reflectance (RLe)	11%
Indoor Reflectance (RLi)	14%
Energy Factors EN410:2011	
Transmittance (TE)	27%
Outdoor Reflectance (Ree)	37%
Indoor Reflectance (Rei)	47%
Absorptance A1 (AE1)	35%
Absorptance A2 (AE2)	1%
Solar Factors EN410:2011	
Solar Factor (g)	0.29
Shading Coefficient (SC)	0.33
Thermal Transmission (Ug) EN673:2011	
Ug	1.0 W/(m².K)
Angle relative to the vertical	0°
Acoustics EN 12758	
Acoustic measurement values according to EN 12758 and from notified body	
Rw	35 (-1; -5) dB
Ra	34 dB
Ra,lf	30 dB
STC (ASTM F413)	N/A

CONFIGURADOR PVB

CONFIGURADOR PVB

Calumen Pro

Dashboard
My projects
Find a solution
Configure a glazing
Contact & FAQ

Light mode

CD Calumen Settings

SAINT-GOBAIN
Legal information - GTCU
Your data and your rights

Status: Draft

Restart Settings 0°

6 ORAÉ (16 Argon 90) 4 O... x 6 (16 Argon 90) 4

6 16 4

6 ORAÉ (16 Argon 90) 4 ORAÉ
COOL-LITE XTREME 61-29 #2

Substrate

Type: ORAÉ

Thickness: 6 mm

Thermal treatment: Annealed

Laminated ☒

Coating

Performances Mechanics

Units: Metrics Imperial Decimals: Round Precise

Luminous Factors CIE015:2018

Light Transmittance (TL)	61%
Outdoor Reflectance (RL _e)	11%
Indoor Reflectance (RL _i)	14%

Energy Factors EN410:2011

Transmittance (TE)	27%
Outdoor Reflectance (Re _e)	37%
Indoor Reflectance (Re _i)	47%
Absorptance A1 (AE1)	35%
Absorptance A2 (AE2)	1%

Solar Factors EN410:2011

Solar Factor (g)	0.29
Shading Coefficient (SC)	0.33

Thermal Transmission (U_g) EN673:2011

U _g	1.0 W/(m ² .K)
Angle relative to the vertical	0°

Acoustics EN 12758

Acoustic measurement values according to EN 12758 and from notified body

R _w	35 (-1; -5) dB
R _a	34 dB
R _a ,tr	30 dB
STC (ASTM F413)	N/A

Compare Duplicate Save Product sheet

Marcar la opción « Laminar »
para añadir PVB

SAINT-GOBAIN GLASS

O « + Añadir elemento »



CONFIGURADOR PVB

Calumen Pro

Dashboard

My projects

Find a solution

Configure a glazing

Contact & FAQ

Light mode

Calumen Settings

Legal Information - GTCU

Status: Draft

Restart

Settings

0°

66.1 ORAÉ (16 Argon 90) ...

6 (16 Argon 90) 4

Substrate

+ Add element

ORAÉ #4

Substrate

+ Add element

Thickness

1 - 0.38

Performances

Mechanics

Units

Metrics

Imperial

Decimals

Round

Precise

Luminous Factors

CIE015:2018

Light Transmittance (TL)

60%

Outdoor Reflectance (RLe)

11%

Indoor Reflectance (RLi)

14%

Energy Factors

EN410:2011

Transmittance (TE)

25%

Outdoor Reflectance (Ree)

28%

Indoor Reflectance (Rei)

47%

Absorptance A1 (AE1)

46%

Absorptance A2 (AE2)

0%

Solar Factors

EN410:2011

Solar Factor (g)

0.28

Shading Coefficient (SC)

0.32

Thermal Transmission (Ug)

EN673:2011

Ug

1.0 W/(m2.K)

Angle relative to the vertical

0°

Acoustics

EN 12758

Acoustic simulated values

Rw

39 (-1; -5) dB

Ra

38 dB

Ra,tr

34 dB

STC (ASTM E413)

39

OUTP (ASTM E1333)

33

Compare

Duplicate

Save

Product sheet

En el desplegable puede seleccionar entre varios tipos de PVB (estándar, Silence, estructural, o colores de varios proveedores)

Los datos de valores han sido proporcionados por los proveedores y pueden diferir del rendimiento final.

CONFIGURADOR PVB

Calumen Pro

Dashboard

My projects

Find a solution

Configure a glazing

Contact & FAQ

Light mode

Marie-Pia Settings

Legal Information - GTCU your data and your rights

Status: Draft

Restart Settings

66.1 ORAÉ (16 Argon 90) 4 ORAÉ COOL-LITE XTREME 70-33 #4

Substrate 6

+ Add element

Interlayer

Type: PVB STANDARD

Thickness: 1 - 0.38

+ Add element

Substrate 6

Performances Mechanics

Units: Metrics Imperial

Decimals: Round Precise

Luminous Factors

Light Transmittance (TL)	69%
Outdoor Reflectance (RLe)	11%
Indoor Reflectance (RLi)	13%

Energy Factors

Transmittance (TE)	29%
Outdoor Reflectance (Ree)	28%
Indoor Reflectance (Rei)	44%
Absorptance A1 (AE1)	42%
Absorptance A2 (AE2)	1%

Solar Factors

Solar Factor (g)	0.31
Shading Coefficient (SC)	0.36

Thermal Transmission (Ug)

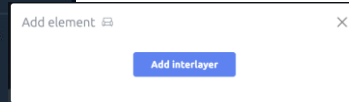
Ug	1.0 W/(m2.K)
Angle relative to the vertical	0°

Acoustics

Acoustic simulated values	
Rw	39 (-1; -5) dB
Ra	38 dB
Ra,Tr	34 dB
STC (ASTM E413)	39
OUT (ACTA E 13 21)	33

Compare Duplicate Save Product sheet

Puedes también añadir otro PVB para crear un multi-interlayer.



CONFIGURADOR PVB

Calumen Pro

Dashboard

My projects

Find a solution

Configure a glazing

Contact & FAQ

Light mode

Marie-Pia Settings

SAINT-GOBAIN

Legal Information - GTCU your data and your rights

Status: Draft

Restart Settings 0°

6 6 16 4

66.5 ORAÉ SI COLOR (16 Argon 90) 4 ORAÉ COOL-LITE XTREME 70-33 #4

Substrate

+ Add element

Interlayer

Type

PVB STANDARD

Thickness

2 - 0.76

Interlayer

Interlayer

Performances Mechanics

Units Metrics Imperial

Decimals Round Precise

The interlayer compatibility for the selected configuration must be checked by the user. Colored PVB data is given by the producer and may differ from final performance

Luminous Factors CIE015:2018

Light Transmittance (TL) 24%

Outdoor Reflectance (RL_e) 7%

Indoor Reflectance (RL_i) 12%

Energy Factors EN410:2011

Transmittance (TE) 15%

Outdoor Reflectance (Re_e) 24%

Indoor Reflectance (Re_i) 44%

Absorptance A1 (AE1) 61%

Absorptance A2 (AE2) 0%

Solar Factors EN410:2011

Solar Factor (g) 0.18

Shading Coefficient (SC) 0.21

Thermal Transmission (U_g) EN673:2011

U_g 1.0 W/(m².K)

Angle relative to the vertical 0°

Compare Duplicate Save Product sheet

Se aplican algunas normas a la opción de multi-interlayer, como un máximo de 4 PVBs diferentes, sin mezcla entre proveedores o tipo PVB. Pueden aplicarse otras normas específicas

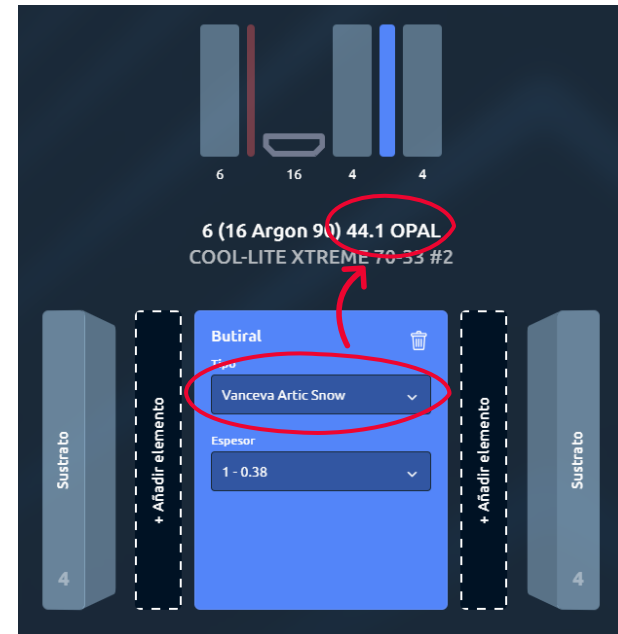
EQUIVALENCIAS PVB

Las principales equivalencias entre la nomenclatura común y la que aparece en Calumen Pro de las referencias de **PVB de color del proveedor Vanceva** son las que aparecen en la siguiente tabla

Old color name	New color name
Sky Blue	Sky
Cool Blue	Glacier
Light Blue Green	Marine
Grey	Shale
Medium Blue Grey	Graphite
Bronze	Dolomite
Light Bronze	Limestone
Light Neutral Brown	Dusk
Medium Neutral Brown	Mocha
Medium Bronze	Gobi
Dark Neutral Brown	Truffle

IMPORTANTE

Para configurar el **PVB Opale**, se debe elegir la referencia de PVB de color de Vanceva **Artic Snow**



CONFIGURADOR SERIGRAFÍA

CONFIGURADOR SERIGRAFÍA

The screenshot displays the SAINT-GOBAIN GLASS configurator interface. The main configuration area shows a 4 FT (16 Argon 90) 4 FT setup. The left sidebar contains navigation options: Dashboard, My projects, Find a solution, Configure a glazing (selected), and Contact & FAQ. The bottom left shows user information for Marie-Pia and a legal information link. The main panel features a central visualization of the glass unit with dimensions 4, 16, and 4. Below this, the 'Substrate' section is expanded, showing 'Type' as PLANICLEAR, 'Thickness' as 4 mm, and 'Thermal treatment' as Tempered. A 'Laminated' toggle is at the bottom. To the right of the substrate settings is a 'Cavity' section with a value of 16. An orange arrow points from the 'Add element' button in the substrate section to a pop-up menu. The pop-up menu has three options: 'Add coating', 'Add interlayer', and 'Add enamel'. The 'Add enamel' option is highlighted with an orange box. The right sidebar shows 'Performances' and 'Mechanics' tabs. The 'Performances' tab is active, displaying various metrics under 'Luminous Factors', 'Energy Factors', 'Solar Factors', 'Thermal Transmission', and 'Acoustics'. At the bottom right, there are buttons for 'Compare', 'Duplicate', 'Save', and 'Product sheet'.

Calumen Pro

Dashboard

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Configure a glazing

Contact & FAQ

Light mode

Marie-Pia Settings

SAINT-GOBAIN

Legal information - GTCU your data and your rights

Status: Draft

Restart Settings

4 FT (16 Argon 90) 4 FT

Substrate

Type: PLANICLEAR

Thickness: 4 mm

Thermal treatment: Tempered

Laminated

Cavity: 16

Performances Mechanics

Units: Metrics Imperial

Decimals: Round Precision

Luminous Factors: CIE015:2011

Light Transmittance (TL): 83%

Outdoor Reflectance (RL_e): 15%

Indoor Reflectance (RL_i): 15%

Energy Factors: EN410:2011

Transmittance (TE): 77%

Outdoor Reflectance (Re_e): 14%

Indoor Reflectance (Re_i): 14%

Absorptance A1 (AE1): 5%

Absorptance A2 (AE2): 4%

Solar Factors: EN410:2011

Solar Factor (g): 0.80

Shading Coefficient (SC): 0.92

Thermal Transmission (U_g): EN673:2011

U_g: 2.6 W/(m².K)

Angle relative to the vertical: 0°

Acoustics: EN 12758

Acoustic measurement values according to EN 12758 and from notified body

R_w: 31 (-1; -4) dB

R_a: 30 dB

R_a,T: 27 dB

STC (ASTM F413): N/A

Add element

Add coating Add interlayer Add substrate

Add enamel

Compare Duplicate Save Product sheet

Clicar en
« + Añadir elemento »
Solo aparecerá la
opción de serigrafía si
previamente se ha
seleccionado el
tratamiento térmico
templado o
termoendurecido.

CONFIGURADOR SERIGRAFÍA

Seleccionar el color

Elegir el tipo de serigrafía para definir el % de cubrición

Si no hay patrón definido, indica el porcentaje de cubrición

Calumen Pro

Dashboard

My projects

Find a solution

Configure a glazing

Contact & FAQ

Light mode

Marie-Pia Settings

Legal Information - GTCU

4 FT (16 Argon 90) 4 FT

Status: Draft

Restart

Settings

0°

4 16 4

4 FT (16 Argon 90) 4 FT

Black (100%) #2

Substrate

+ Add element

Enamel

Color

Black

Coverage Type

Uniform

Pattern

Coverage rate%

100

Cavity

+ Add element

Performances

Mechanics

Units

Metrics

Imperial

Decimals

Round

Precise

Luminous Factors

CIE015:2018

Light Transmittance (TL)

1%

Outdoor Reflectance (RLe)

6%

Indoor Reflectance (RLi)

14%

Energy Factors

EN410:2011

Transmittance (TE)

2%

Outdoor Reflectance (Ree)

7%

Indoor Reflectance (Rei)

14%

Absorptance A1 (AE1)

92%

Absorptance A2 (AE2)

0%

Solar Factors

EN410:2011

Solar Factor (g)

0.11

Shading Coefficient (SC)

0.13

Thermal Transmission (Ug)

EN673:2011

Ug

2.6 W/(m2.K)

Angle relative to the vertical

0°

Acoustics

EN 12758

Acoustic measurement values according to EN 12758 and from notified body

Rw

31 (-1; -4) dB

Ra

30 dB

Ra,Er

27 dB

CTC (ASTM F411)

N/A

Compare

Duplicate

Save

Product sheet

CONFIGURADOR SERIGRAFÍA

Enamel pattern

Select the pattern

Hexagonal Dots Hexagonal Negative Dots Lines Squares

Define the size

Diameter "d" (mm) Distance "D" (mm)

1,5 1

Coverage rate (%)

32,6

Validate

Elige entre los 4 patrones predefinidos

Indica el tamaño del patrón

El porcentaje de cubrición se calcula automáticamente

FICHA TÉCNICA

FICHA TÉCNICA

Zona de comentarios y logo

Esquema del acristalamiento

Infografía: opción para modificar el estado del cielo y la vista.
Por defecto no se incluye en el informe, utiliza la casilla para de verificación para añadirla.

Results

6 ORAÉ (16 Argon 90) 4 ORAÉ
COOLITE XTREME 61-29 42

Computed by: Calumen Demo account Computed on: 20/03/2023 Product catalog: France Norm: EN10-2011

Contact information ☐ include contact information in export
Email: calumen.beta@saint-gobain.com Phone number: +33 123 456 789 Company name: Saint-Gobain Glass

Logo ☐ include in export **Comment**
Add notes (optional)
Your comments here
Upload your logo from your account settings

Glazing type

Glazing 1
ORAÉ (6mm) - Annealed
COOLITE XTREME 61-29

Glazing 2
ORAÉ (6mm) - Annealed

Simulated performance datas

Luminous Factors CEN15-2018
Light Transmittance (T_L) 40%
Outdoor Reflectance (R_{so}) 17%
Indoor Reflectance (R_i) 14%

Energy Factors EN10-2011
Transmittance (T_S) 23%
Outdoor Reflectance (R_{so}) 18%
Indoor Reflectance (R_i) 47%
Absorptance g₁ (AG1) 46%
Absorptance g₂ (AG2) 0%

Solar Factors EN10-2011
Solar Factor (g) 0.38
Shading Coefficient (SC) 0.32

Thermal Transmittance (U_g) EN17-2011
U_g 1.6 W/(m²K) °

Acoustic EN 12758
Acoustic simulated values
R_w 39 [1; -5] dB
R_a 38 dB
R_{a1} 34 dB
STC (ASTM E913) 39
COTC (ASTM E1332) 32

Color Rendering CEN15-2018
Transmission (R_a) 90.4
Reflection (R_a) 88.8

Safety Class EN12400
Pendulum Body Resistance 282/NPD

Arch Burglary EN256
Burglar Resistance NPD

Manufacturing Data
Nominal Thickness 32.4 mm
Weight 40 kg/m²

Sustainability Know more on sustainability

Carbon Footprint
The value is calculated regarding the composition computed based on the standard EN 15804+A2:CN (2018)
Global Warming Potential (GWP) - A1-A3 NA
(kg CO₂ eq/m²)

Environmental Product Declaration EN 15804+A2:CN (2018)
The EPDES for the requested configuration is not available.
Contact us

Infographics
Sunny ☐ Camera 9 ☐ Include illustration in export

Descargar el PDF (se puede elegir entre 17 idiomas diferentes)

1 Resumen

2 Datos de contacto (por defecto, no se incluyen en el informe; hay que marcar la casilla para incluirlos)

5 Prestaciones técnicas

6

FICHA TÉCNICA PDF

**DB South Facade v1**
Configuration: 66.1 DIAMANT (16 Argon 90) 44.1 (16 Argon 90) 66.1
Coating: COOL-LITE SKN 145 #4 / ECLAZ #9
Computed by: Mike Rafaelo Computed on: 10/03/2023 Product catalog: Italy Norms: EN410 (2011-04)

Contact information
Email: m.rafaelo@gmail.com Job title: Window Frame Maker
Phone number: +33 6 34 34 32 04 Company name: Saint-Gobain

Comments
Add notes (optional): Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vel bibendum fringilla aliquet varius scelerisque integer eu elementum quis. Sed cum vulguate facilisis placerat mauris pretium dui egestas. Dictum sodales eu amet lorem sit integer. Proin commodo feugiat pulvinar integer egestas. Sed cum vulguate facilisis placerat mauris pretium dui egestas. Dictum sodales eu amet lorem sit integer. Proin commodo feugiat pulvinar integer eget mattis est nibh.

Glazing type



Pane 1

ORAÉ (4mm)
PVB standard (2 x 0.38mm)
ORAÉ (4mm)
COOL-LITE XTREME 70-33 II

Cavity 1

Argon 90% 16 mm

Pane 2

ORAÉ (4mm)

Cavity 2

Argon 90% 16 mm

Pane 3

ECLAZ II
ORAÉ (4mm)
PVB standard
ORAÉ (4mm)

Illustration Non-contractual renders



Simulated performance data

Luminous factor Light Transmittance (TL) Outdoor Reflectance (RLe) Indoor Reflectance (RIi)	CIE (15-2004) 74% 12% 13%
Energy factors Transmittance (TE) Outdoor Reflectance (Ree) Indoor Reflectance (Rei) Absorptance A1 Absorptance A2 Absorptance A3	EN410 (2011-04) 36% 30% 37% 33% 1% 1%
Solar factors Solar Factor (g) Shading Coefficient (SC)	EN410 (2011-04) 0.38 0.44
Thermal transmission Ug Angle relative to the vertical	EN673-2011 1.0 W/(m2.K) 0°
Acoustics Rw (C;Ctr) Ra Ra,tr STC (ASTM E413) OTC (ASTM E1332)	EN 12758 39 (-2; -6) dB 27 dB 30 dB 39 31
Color rendering Transmission (Ra) Reflection (Ra)	CIE (15-2004) 98 98
Safety Class Pendulum Body Resistance	EN 12600 NPD
Anti-Burglary Burglar Resistance	EN 356 NPD
Manufacturing sizes Nominal Thickness Weight	 30.4 mm 35.0 Kg/m2
Sustainability Carbon Footprint The value is calculated regarding the composition computed based on the standard EN 15804+A1/CN Global warming potential (kg, CO ₂ equiv/m ²) European average	EN 15804+A2 39.18

Prestaciones energéticas

Datos acústicos

Datos huella de carbono GWP

Infografía del acristalamiento

Certificación TÜV Rheinland



Page 1/1
Calumen calculates the photometric characteristics and thermal transmission of glass using calculation algorithms which comply with the following standards: the European standards EN 410 and EN 673, the international standard ISO 9050, the Japanese standard JIS-B-2005-2010 and the former standard JIS-B-2004-2005. The functional output and calculation rules of Calumen for standards EN 410 and EN 673 have been validated by TÜV Rheinland (report 1192236 17-31/03). The technical performance indicators obtained according to these standards are provided for information only and are subject to amendment. Only the values entered in the performance declaration available on the CE marking site of Saint-Gobain Glass are official.
The actual attenuation indicators are measured under laboratory conditions according to the standards EN ISO 10140 and EN 12758. The calculated indicators are provided for information only. The accuracy for the index lies within a range of +/-0.05. The glass thickness calculations comply with the 2012 version of the DTU 209-P4 description. The USER is responsible for ensuring that the correct calculation hypotheses are selected and the DTU 209 is applied appropriately for the project concerned.



CÁLCULOS DTU 39

CÁLCULOS DTU 39

Statut: Brouillon

6 ORAÉ (16 ARGON 90) 44.1 ORAÉ ORAÉ
COOL-LITE XTREME 61-29 #2

Substrat
Type: ORAÉ
Epaisseur (mm): 6 mm
Traitement thermique: Recuit
Feuilleté

Norme utilisée pour les calculs de charge :
NF DTU 39 P4(2012)

1 Haz clic en la pestaña «mécánicos» del panel de resultados

2 A continuación, define los supuestos para el cálculo

CÁLCULOS DTU 39

Hypothèses de calculs basées sur la norme NF DTU 39 P4 (2012)

*champs obligatoires

Cas de charges

☒ Basés sur la norme NF DTU39 ☐ Saisie personnalisée des charges (à venir prochainement)

Localisation et position

Localisation*

☒ Extérieur ☐ Intérieur

Pays* Département* Ville*

France Sélectionner Sélectionner

Altitude (m)*

max. 2000

Catégorie de terrain* Aide au choix

Sélectionner

Hauteur du bâtiment (m)*

1 - 100

Angle du vitrage par rapport à la verticale (*) = Pente (%)

0 = 00

Replene el formulario:

- Localización y posición
- Dimensiones

CÁLCULOS DTU 39

Hypothèses de calculs basées sur la norme NF DTU 39 P4 (2012)

Angle du vitrage par rapport à la verticale (°)* = Pente (%)*

Type de position du vitrage* ☒ Rez-de-chaussée ☐ Etage Distance haut du vitrage / sol (m) ☐ Moins de 6 m

Dimensions

Forme du vitrage* ☒ Rectangulaire ☐ Non-rectangulaire en appui sur toute sa périphérie

Type de prise en feuillure*

Hauteur "H" (m)* Largeur "L" (m)*

Valider

A continuación,
«confirme»
desplazándose hacia
abajo

CÁLCULOS DTU 39

Posibilidad de modificar las hipótesis de cálculo

Borrar supuestos para empezar de 0

Se muestran los resultados del cálculo

Recomendación de configuración

Statut: Brouillon

Paramètres

Performances Mécanique

Les performances sont calculées sur la base des hypothèses que vous avez définies

Modifier les hypothèses de calcul

✓ Cette configuration est conforme à la norme DTU39.

Pression	DTU 39 (2012)
Pression utilisée	1800 Pa
Epaisseur e1	5.69 mm
Epaisseur minimum admissible	5.69 mm
✓ Epaisseur eR	8.92 mm ≥ 5.69 mm
Epaisseur eF	7.6 mm
Flèche au centre maximum admissible	16.67 mm
✓ Flèche au centre	4.15 mm ≤ 16.67 mm

Configuration recommandée:

Votre configuration est satisfaisante pour les hypothèses de calcul définies

Sauvegarder Dupliquer Fiche produit

CÁLCULOS DTU 39

Statut: Brouillon

6 ORAÉ (16 ARGON 90) 44.1 ORAÉ ORAÉ
COOL-LITE XTREME 61-29 #2

Substrat
Type: ORAÉ
Epaisseur (mm): 6 mm
Traitement thermique: Recuit
Feuilleté: ☐

Pression utilisée: 1800 Pa

Epaisseur e1: 10.39 mm
Epaisseur minimum admissible: 10.39 mm
Epaisseur eR: 8.92 mm < 10.39 mm

Epaisseur eF: 7.6 mm
Flèche au centre maximum admissible: 30 mm
Flèche au centre: 55.28 mm > 30 mm

Configuration recommandée:
10 ORAÉ (16 Argon 90) 44.1 ORAÉ ORAÉ

Configuración no
conforme a la norma
DTU 39

CÁLCULOS DTU 39

Calumen Pro

Tableau de bord

Mes projets

Trouver un vitrage

Configurer un vitrage

Contact et FAQ

Mode clair

Marie-Pia Paramètres

SAINT-GOBAIN Informations légales - CGU et vos données et vos droits

Statut: Brouillon

6 ORAÉ (16 Argon 90) 44.1 ORAÉ ORAÉ COOL-LITE XTREME 61-29 #2

Substrat

Type: ORAÉ

Epaisseur (mm): 6 mm

Traitement thermique: Recuit

Feuilleté: ☐

Performance Mécanique

Les performances sont calculées sur la base des hypothèses que vous avez définies

Modifier les hypothèses de calcul

✓ Cette configuration est conforme à la norme DTU39.

Pression	DTU 39 (2012)
Pression utilisée	1800 Pa
Epaisseur e1	5.69 mm
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Flèche au centre maximum admissible	16.67 mm
✓ Flèche au centre	4.15 mm ≤ 16.67 mm

Configuration recommandée:

Votre configuration est satisfaisante pour les hypothèses de calcul définies

Sauvegarder Dupliquer **Fiche produit**

Generar el informe de cálculo haciendo clic en «ficha de producto».

CÁLCULOS DTU 39

Page de résultat

Calumen Pro

Tableau de bord

Mes projets

Trouver un vitrage

Configurer un vitrage

Contact et FAQ

Mode clair

Marie-Pia Paramètres

SAINT-GOBAIN Informations légales - CGU Vos données et vos droits

Note de calcul

Inclure dans l'export

Calcul de charges:

NF DTU 39 P4 (2012)

Cas de charges:

Basés sur la norme NF DTU39

Localisation et position

Localisation:

Extérieur

Pays:

France

Département:

02 - Aisne

Ville:

Soissons

Zone de vent:

2

Zone de neige:

A1

Altitude (m):

200 m

Catégorie de terrain:

II - Rase campagne

Angle du vitrage par rapport à la verticale:

0°

Type de position du vitrage:

Rez-de-chaussée

Distance haut du vitrage / sol (m):

Plus de 6 m

Hauteur du bâtiment (m):

1 m

Dimensions

Forme du vitrage:

Rectangulaire

Type de prise en feuillure:

4 appuis

Hauteur "H":

1.8 m

Largeur "L":

1 m

Résultats de calcul

✓ Cette configuration est conforme à la norme DTU39.

Pression

DTU 39 (2012)

Comme plusieurs cas de charge peuvent s'appliquer au vitrage, Calumen considère la pression la plus défavorable pour réaliser les calculs

Pression utilisée

1800 Pa

Pression Pvent

1800 Pa

Epaisseur e1

5.69 mm

Epaisseur minimum admissible

5.69 mm

✓ Epaisseur eR

8.92 mm

≥ 5.69 mm

Epaisseur eF

7.6 mm

Flèche au centre maximum admissible

16.67 mm

✓ Flèche au centre

4.15 mm

DB South Facade v1

Configuration: 46.1 DAKHAKT (16 Argon 80 46.1 (16 Argon 80 46.1

Coating: COOL-TECH 100 100 100 100 100 100

Computed by: Mike Ruffalo

Computed on: 10/03/2023

Product catalog: Italy

Norms: EN410 (2011-04)

Static calculation notes

Norms

Static calculation norms: DTU39 (2012)

Performed pressure: Based on DTU39 eurocode

Location and position

Location:

Outside

Country:

France

Department:

Somme

City:

Offreville

Wind zone:

3

Snow zone:

B1

Altitude:

17 m

Analanche risk:

Yes

Analanche level:

3.5 kPa

Glazing angle to the vertical:

0°

Roof:

In ground floor

Glazing level:

Distance top of the glazing / ground

Building height:

Less than 6 m

Building height:

17 m

Sizing

Glazing shape:

Non-rectangular

Shape definition:

Triangle

Glazing dimensions

A:

3 m

B:

3 m

Equivalent dimensions

Height "H":

3 m

Width "W":

3 m

Nota de cálculo PDF



ENCONTRAR UN ACRISTALAMIENTO

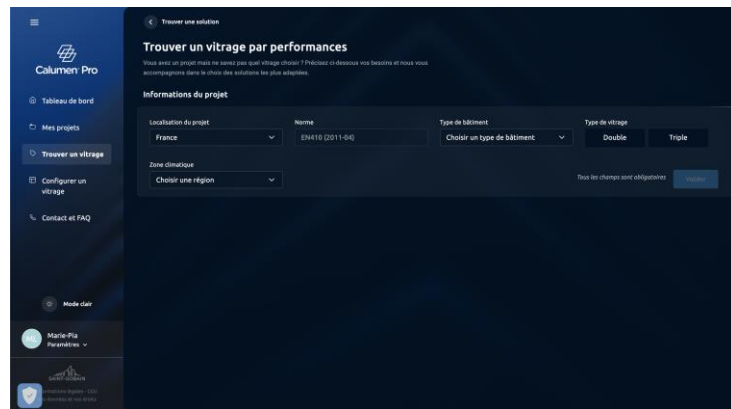
ENCONTRAR UN ACRISTALAMIENTO

Selector de soluciones Vetrotech para descargar informes sobre acristalamiento resistente al fuego y de alta seguridad

The screenshot shows the 'Calumen Pro' web application interface. On the left is a dark blue sidebar with a menu containing: 'Tableau de bord', 'Mes projets', 'Trouver un vitrage' (highlighted with a green arrow), 'Configurer un vitrage', and 'Contact et FAQ'. Below the menu are 'Mode clair' and a user profile for 'Marie-Pia Paramètres'. The main content area is titled 'Trouver une solution' and includes a sub-section 'Trouver un vitrage par performances' with a 'Chercher par performances' button. A central image shows a person at a computer with a 'Glass finder by performance' tool. To the right, there's a 'Vitrage de protection incendie et haute sécurité' section with a 'Lancer ma recherche' button and the 'vetrotech SAINT-GOBAIN' logo. Below this is a section 'En savoir plus sur les autres produits Saint-Gobain' with three rows: 'Vitrage dynamique' with 'SageGlass SAINT-GOBAIN' logo, 'Technologie « Warm edge »' with 'SWISSPACER' logo, and 'Intimité à la demande' with 'PRIVA-LITE®' logo.

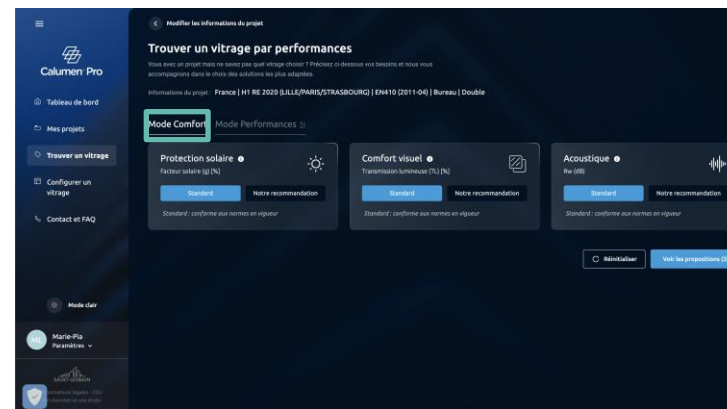
Menú «Encontrar un acristalamiento» para buscar vidrios de capa Saint-Gobain en función de prestaciones

ENCONTRAR UN ACRISTALAMIENTO

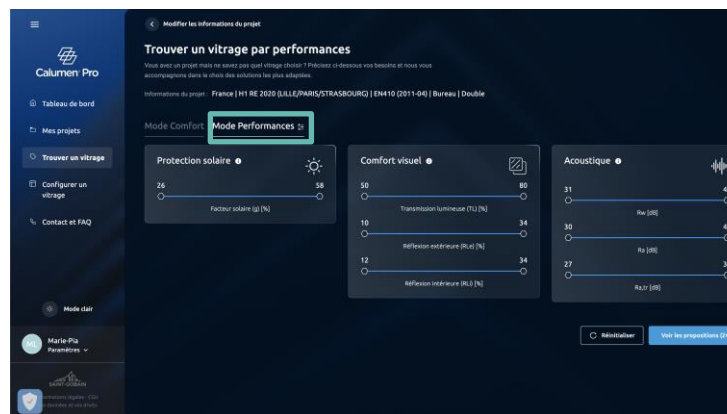


- 1 Définir el proyecto, indicando localización y tipo de edificio para valorar las opciones más adecuadas

- 2a Modo confort = para usuarios menos experimentados. Permite ver las recomendaciones de Saint-Gobain Glass en una selección más restringida



- 2b Modo prestaciones = para usuarios expertos, con mayores conocimientos



ENCONTRAR UN ACRISTALAMIENTO – SELECTOR DE SOLUCIONES VETROTECH

Selector de soluciones Vetrotech en detalle (disponible únicamente para usuarios acreditados FR, NL, UK, PT, ES)

Calumen Pro

Tableau de bord

Mes projets

Trouver un vitrage

Configurer un vitrage

Contact et FAQ

Mode clair

Marie-Pia Paramètres

SAINT-GOBAIN

Informations légales - CGU

Données et vos droits

Trouver un autre type de solution

Vitrage de protection incendie et haute sécurité (par Vetrotech)

Pays du projet France

Protection incendie Haute sécurité

Tous les champs sont obligatoires

Classement Degré

EI EW E 30 60 90 120

CH

Type d'application

Bloc porte

Modifier

Matériau

Bois Acier Aluminium

Gamiste

Vetrotech Forster Jansen RP technik Reynaers

Schüco

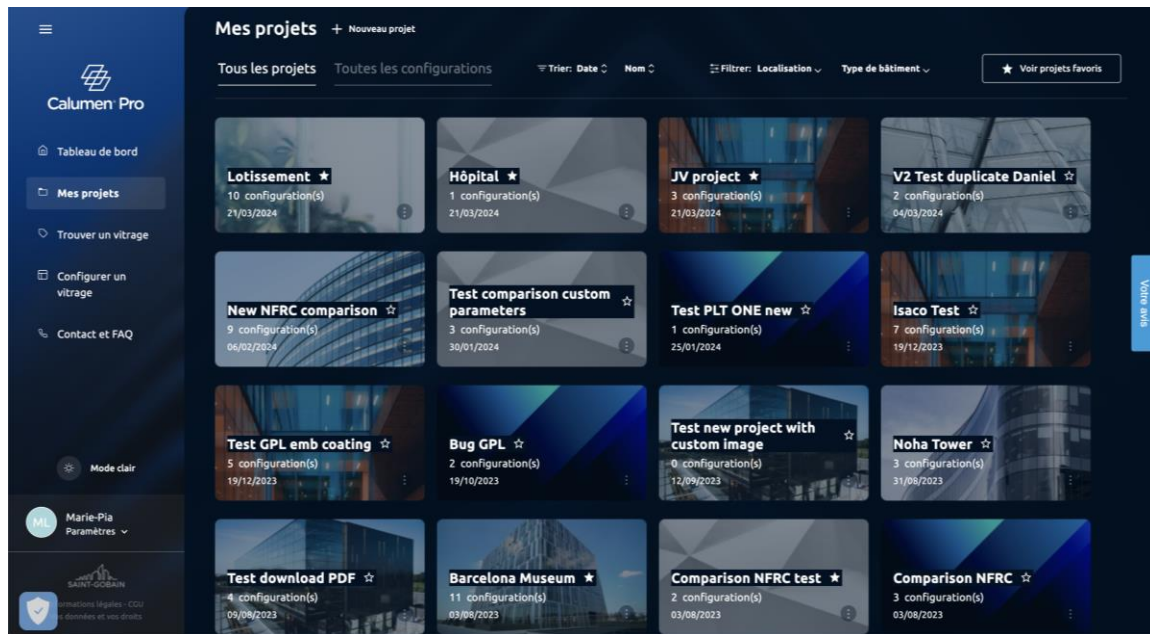
Vous avez une question ou souhaitez discuter d'un projet ? N'hésitez pas à nous contacter !

Nous contacter

GESTIÓN DE PROYECTOS

GESTIÓN DE PROYECTOS

Menú de gestión de proyectos: marcar proyecto como favorito, ordenar por fecha/nombre/lugar...



Créer un nouveau projet

**champs obligatoires*

Nom du projet*

Pays*

Ville

Type de bâtiment

Type de construction ☐ Neuve ☐ Rénovation

Commentaire

Image du projet 

Generar un proyecto con más información (país, localidad, tipo de edificio, obra nueva o renovación...)

COMPARAR ACRISTALAMIENTOS

COMPARAR ACRISTALAMIENTOS

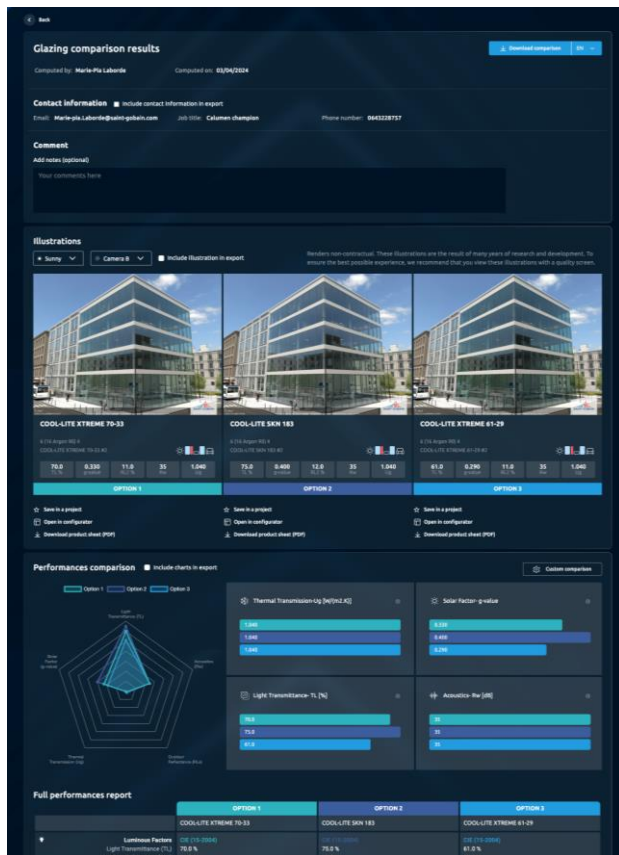
Los usuarios pueden comparar de 2 a 3 acristalamientos y exportar el resultado en formato PDF para encontrar la mejor opción. Los gráficos están disponibles para hacer los datos más visuales. Posibilidad de ocultar las ilustraciones y/o los gráficos en el PDF.

The screenshot displays the 'Calumen Pro' software interface. On the left is a dark sidebar with navigation options: 'Tableau de bord', 'Mes projets', 'Trouver un vitrage', 'Configurer un vitrage', and 'Contact et FAQ'. The main area shows a project titled 'Barcelona Museum' with details like 'Pays: Spain', 'Ville: Barcelone', and 'Type de construction: Neuve'. Below this, a table lists 11 configurations. Three configurations are selected, indicated by blue checkmarks and a blue highlight box. A red arrow points to the 'Comparer' button in the top right of the table area. The table columns include: Nom T1, TL T1 (%), g T1, Ug T1 (w/m2.K), Rw (C,Ctr) T1 (dB), Date T1, and a menu icon. The selected configurations are: 6 (16 Argon 90) 4_SKN154, 6 (16 Argon 90) 4_SKN145, and 4 (16 Argon 90) 4_ECLAZ.

Nom T1	TL T1 (%)	g T1	Ug T1 (w/m2.K)	Rw (C,Ctr) T1 (dB)	Date T1
6 (16 Argon 90) 4_SKN154 EN410 (2011-04) COOL-LITE SKN 154 #2	52	0.28	1.0	35(-1;-5)	28/02/2023 10:09:29
6 (16 Argon 90) 4_SKN145 EN410 (2011-04) COOL-LITE SKN 145 #2	41	0.22	1.1	35(-1;-5)	28/02/2023 10:09:12
6 (16 Argon 90) 4 EN410 (2011-04)	82	0.78	2.6	35(-1;-5)	28/02/2023 10:08:35
Juergen EN410 (2011-04)	82	0.78	2.6	35(-1;-5)	28/02/2023 10:06:40
6 (16 Argon 90) 4 (16 Argon 90) 6 RT2012	75	0.72	1.7	37(-3;-7)	17/02/2023 14:48:32
4 (16 Argon 90) 4_ECLAZ EN410 (2011-04) ECLAZ ONE #2	80	0.53	1.0	31(-1;-4)	16/02/2023 18:19:01
4 (16 Argon 90) 4_PLT_one EN410 (2011-04)	71	0.52	1.0	31(-1;-4)	16/02/2023 18:19:01

Botón de comparación mientras se seleccionan mínimo 2 y máximo 3 configuraciones

COMPARAR ACRISTALAMIENTOS – PÁGINA DE RESULTADOS



AYUDA - PÁGINA DE CONTACTO Y FAQ

PEDIR AYUDA – PÁGINA DE CONTACTO Y FAQ

The screenshot shows the 'Nous contacter' page. On the left is a dark sidebar with the 'Calumen Pro' logo and a menu: 'Tableau de bord', 'Mes projets', 'Trouver un vitrage', 'Configurer un vitrage', and 'Contact et FAQ' (highlighted with a red box). The main content area has a title 'Nous contacter' and a note 'Tous les champs sont obligatoires'. It contains two text input fields: 'Objet' (with placeholder 'Objet de votre message') and 'Message' (with placeholder 'Ecrivez votre message ici'). A 'Envoyer' button is at the bottom right. Below the form are two sections: 'C'est parti !' with a tutorial link 'Tuto 1 : Comment fonctionne « configurer un vitrage » ?' and 'Nouveautés' with a link 'Découvrez les dernières nouveautés pour améliorer votre usage de Calumen.' and a 'Découvrir' button. At the bottom is a 'FAQ' section.

Formulario de contacto

The screenshot shows the 'FAQ' page. The sidebar is identical to the previous page, with 'Contact et FAQ' highlighted. The main content area has a title 'FAQ' and a list of topics under 'Les bases de Calumen®': 'La gamme de produits', 'Normes', 'Acoustique', 'Illustrations', 'Glossaire de Calumen®', 'Durabilité', and 'Compte'. Each topic has a dropdown arrow. Below this is a section 'Les bases de Calumen' with questions and answers, each with a dropdown arrow: 'Qu'est-ce que Calumen?', 'Comment Calumen fonctionne?', 'A qui est destiné Calumen?', 'Comment je peux trouver le vitrage dont j'ai besoin avec Calumen?', 'Comment obtenir une fiche technique de mon vitrage en utilisant Calumen?', 'Est-ce que les valeurs des performances techniques fournies par Calumen sont certifiées?'. Below that is a section 'La gamme de produits' with two questions and answers, each with a dropdown arrow: 'Quels sont les produits vitrages disponibles dans Calumen?' and 'Puis-je trouver des produits non SAINT-GOBAIN sur Calumen?'. At the bottom is a small disclaimer.

Sección preguntas-respuestas