

Cassonetto in PVC, semi-ventilato, con prolunga sul lato basso, pannello frontale da 24mm, isolante interno in EPS da 30mm, veletta esterna in mattone forato da 80mm intonacato

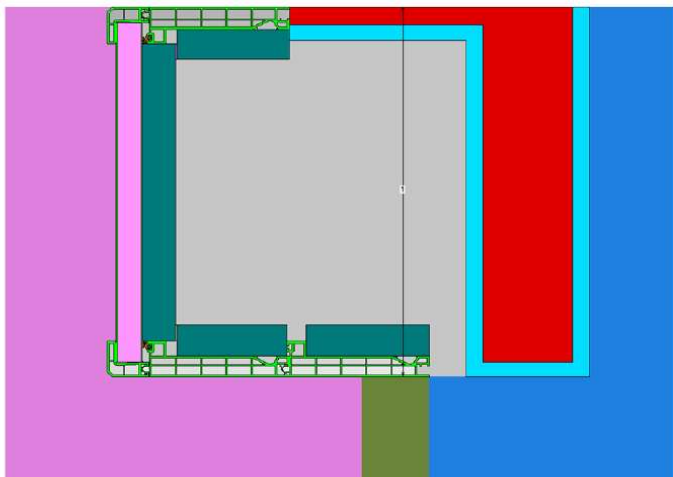
**VALORE Usb = 0,848 W/m2K**

## Thermal transmittance of a shutter box

<i>Profile supplier</i>	Deceuninck
<i>Profile system</i>	
<i>Frame ID</i>	Renovation Box; 24 mm xps panel; 30 mm eps termopor
<i>Standard</i>	EN ISO 10077-2:2018
<i>Software</i>	Bisco v11
<i>Calculator</i>	
<i>Date</i>	05/03/2021

### Simulation input data

#### Model



#### Boundary conditions

Colour ID	Name	Temperature [°C]	Surface resistance [m².K/W]
170	exterior	0	0.04
174	interior (normal), horizontal heat flow	20	0.13
191	adiabatic	0	∞
214	slightly ventilated cavity	0	0.3

#### Materials

Colour ID	Name	Thermal conductivity [W/(m.K)]	Emissivity [-]	EN ISO 10077-2:2018 Annex D
3	PVC rigid	0.17	0.9	x
13	Termopor EPS	0.03	0.9	
36	Brick	0.4	0.9	
60	EPDM	0.25	0.9	x
69	Plaster	0.8	0.9	
86	XPS	0.032	0.9	
253	cavity <1x1 mm²	0.028	0.9	
	unventilated cavities - radiosity method			



Framing the future together

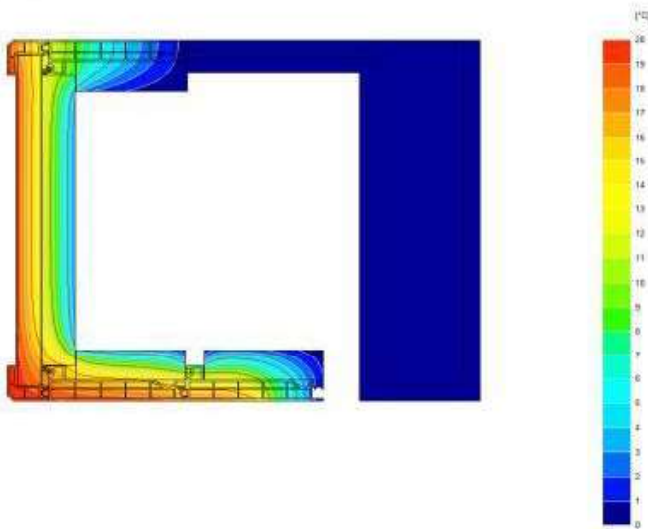
## Calculation result

page 2/2

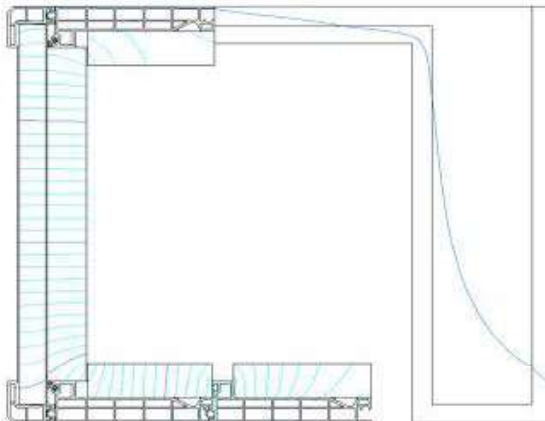
Thermal transmittance of the shutter box, $U_{sb}$	0.85	W/(m <sup>2</sup> .K)
	(0.848)	
Total heat flow rate, $\Phi$	6.105	W/m
Temperature difference between environments	20	°C
Thermal conductance, $L^{2D}$	0.305	W/(m.K)
Height of the roller shutter box, $b_{sb}$	0.3601	m

## Graphic output

### Isothermal lines



### Heat flow lines



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