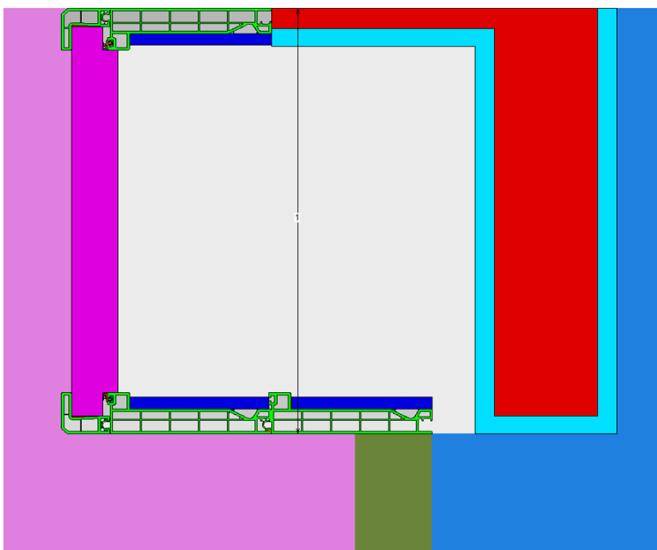


## Thermal transmittance of a shutter box

Profile supplier Deceuninck  
 Profile system ITALINFISSI S.r.l.  
 Frame ID  
 Standard UNI EN ISO 10077-2:2018  
 Software Bisco v11  
 Calculator  
 Date 21/11/2022

### 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	$\infty$
251	cavity slightly ventilated outdoors side	0	0.3

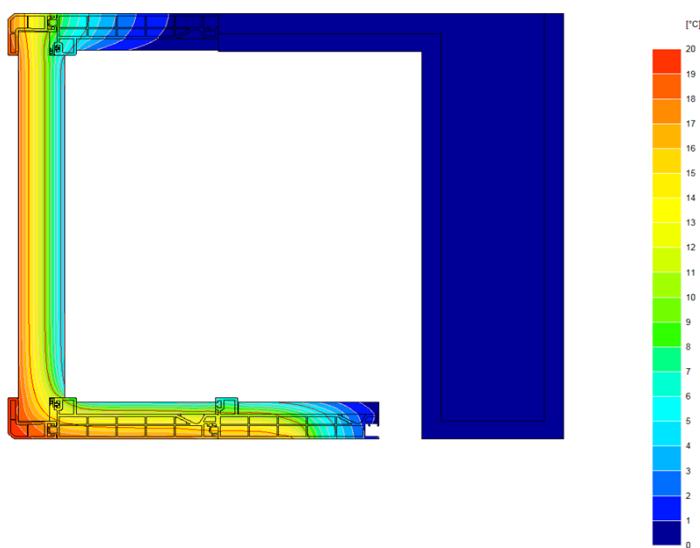
#### Materials

Colour ID	Name	Thermal conductivity [W/(m.K)]	Emissivity [-]	UNI EN ISO 10077-2:2018 Annex D
3	PVC rigid	0.17	0.9	x
36	Brick	0.4	0.9	
60	EPDM	0.25	0.9	x
69	Plaster	0.8	0.9	
98	PE foam	0.036	0.9	
166	Termopor EPS	0.030	0.9	
253	cavity <1x1 mm²	0.028	0.9	
	unventilated air cavities - radiosity method			

Thermal transmittance of the shutter box,  $U_{sb}$       1.2      W/(m<sup>2</sup>.K)  
(1.230)

Total heat flow rate,  $\Phi$       8.856      W/m  
Temperature difference between environments      20      °C  
Thermal conductance,  $L^{2D}$       0.443      W/(m.K)

Height of the roller shutter box,  $b_{sb}$       0.3599      m

Graphic output*Isothermal lines**Heat flow lines*