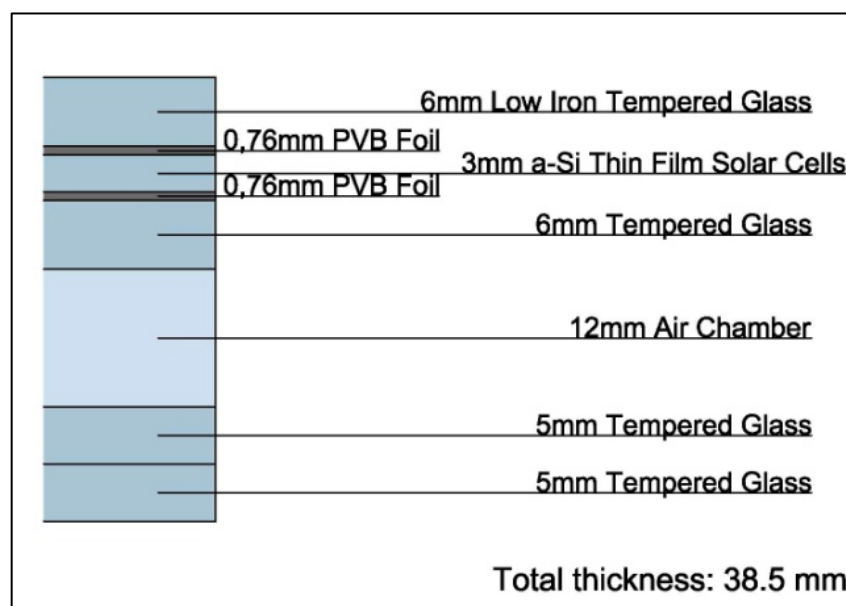




The proposed glass configuration optimizes the thermal comfort conditions inside the building, considering its location (London) and needs provided, following scheme shows the glass configuration:



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Following table shows the glass electrical, mechanical and thermal and acoustic isolation characteristics:

BIPV 20% transparency		
STC Electrical Characteristics		
Nominal power (-/+3 %)	P_{mpp} (Wp)	120
Voltage at Pmax	V_{mpp} (V)	180
Current at Pmax	I_{mpp} (A)	0.68
Open Circuit Voltage	V_{oc} (V)	238
Short Circuit Current	I_{sc} (A)	0.79
Density	Wp/m ²	46
Power tolerance	%	±5
STC: 1000 W/m ² , 25°C, AM 1.5		
Temperature Characteristics		
Temperature Coefficient of I_{sc}	%/°C	0.06
Temperature Coefficient of V_{oc}	%/°C	-0.28
Temperature Coefficient of P_{max}	%/°C	-0.19
Mechanical Characteristics		
Dimensions	mm	1245 x 2456
Thickness	mm	38.5
Surface	m ²	3.06
Weight	Kg/m ²	62.5
Encapsulation material		PVB
External glass (triple laminated security glass)	mm	6mm/3mm/6mm (tempered)
Air chamber	mm	12mm
Internal glass (double laminated security glass)	mm	5mm/5mm (tempered)
Thermal/Acoustic and Properties		
Solar factor (g)		0.32
U-value	W/m ² K	2.88 W/m ² K
Acoustic attenuation	dB	42
Limits		
Maximum Voltage	V_{sys} (V)	1000
Operating Temperature	°C	-40 /+ 85



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