

Example of Calculation U-Value Object Brick Building Monument



	Lambda (W/mK)	Thickness of material (mm)				R-Value (m ² K / W)	R-Value (m ² K / W)	R-Value (m ² K / W)	R-Value (m ² K / W)
Interior transition						0,130	0,130	0,130	0,130
Plasterboard					13	0,050	0,050	0,050	0,050
Vertical air layer and installation level					20	0,570	0,570	0,570	0,570
ISO FOLIE T1*	0,0198	18				0,909			
ISO FOLIE T2,5*	0,0198		36				1,818		
ISO FOLIE T3*	0,0198			54				2,727	
ISO FOLIE T3,5*	0,0198				63				3,181
Vertical air layer					20	0,570	0,570	0,570	0,570
Load-bearing structure solid brick stock					360	1,000	1,000	1,000	1,000
Exterior transition						0,040	0,040	0,040	0,040
Gesamt		323	341	359	368	3,269	4,178	5,087	5,541
		U-Value (W / m²K)				0,305	0,239	0,196	0,180

* λ-value 0.0198 W/mK determined with T4 by Testing Institute SGS from 04.09.2015