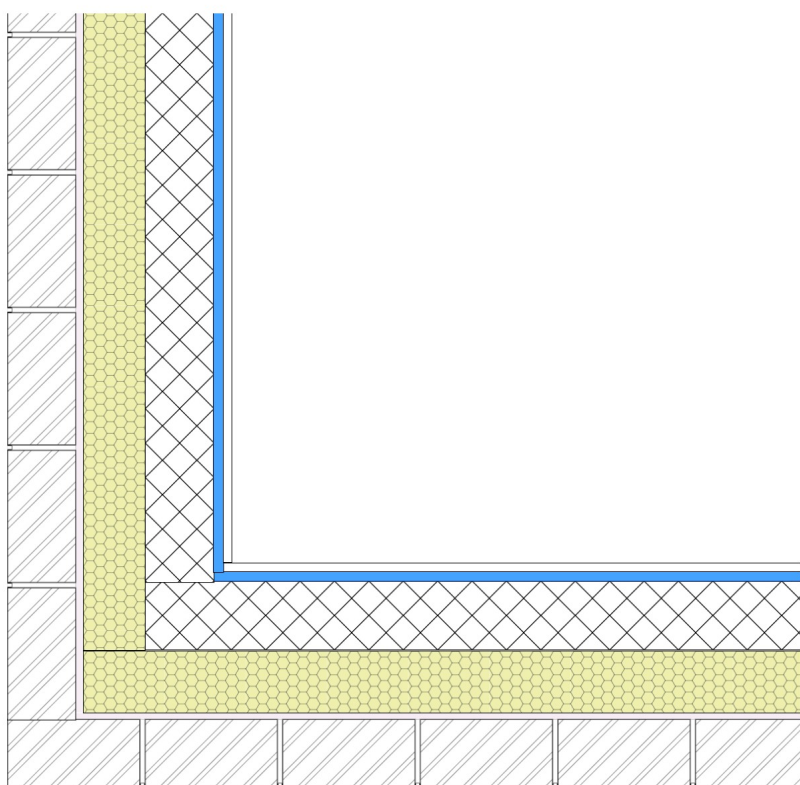
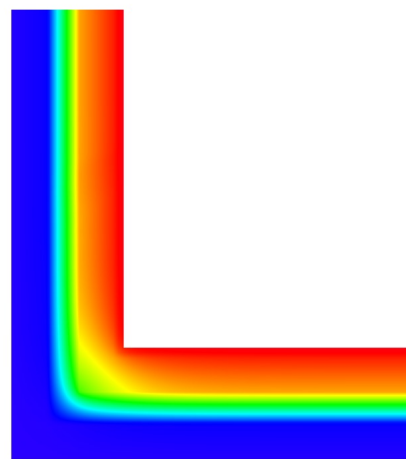


PSI ψ Calculation Report

Junction Name: E-16 90mm Celotex CW 21
Project Name: Standard Junctions



Psi ψ :
0.037
W/mK



Nr.	Description	Length	Value	Correction factor
U1	U value 1	1.000 m	0.177 W/(m ² K)	F _e (1.00)
U2	U value 2	1.000 m	0.177 W/(m ² K)	F _e (1.00)

Boundary conditions and Flow of heat

Nr.	Temp	Rsi/Rse	Length	Flow of heat
R1	20 C	0.13	1.002 m	3.9103 W/m
R2	20 C	0.13	1 m	3.9269 W/m
R3	0 C	0.04	1.33 m	-3.9318 W/m
R4	0 C	0.04	1.33 m	-3.9288 W/m

Materials List

Description	Thickness (m)	Lambda
Standard cavity (Air Void)	0.01, 0.01	(R) 0.147
Plasterboard	0.0125, 0.0125	0.19
Brick outer leaf	0.1, 0.1	0.77
Concrete block (lightweight high strength)	0.1, 0.1	0.15
Plaster Dabs	0.015, 0.015	(R) 0.17
Celotex Cavity Wall 21	0.09, 0.09	0.021

Calculation of the thermal conductivity L2D

Conductance L2D : 0.392
 Psi-value : 0.037 W/(mK)
 fRsi-value : 0.933