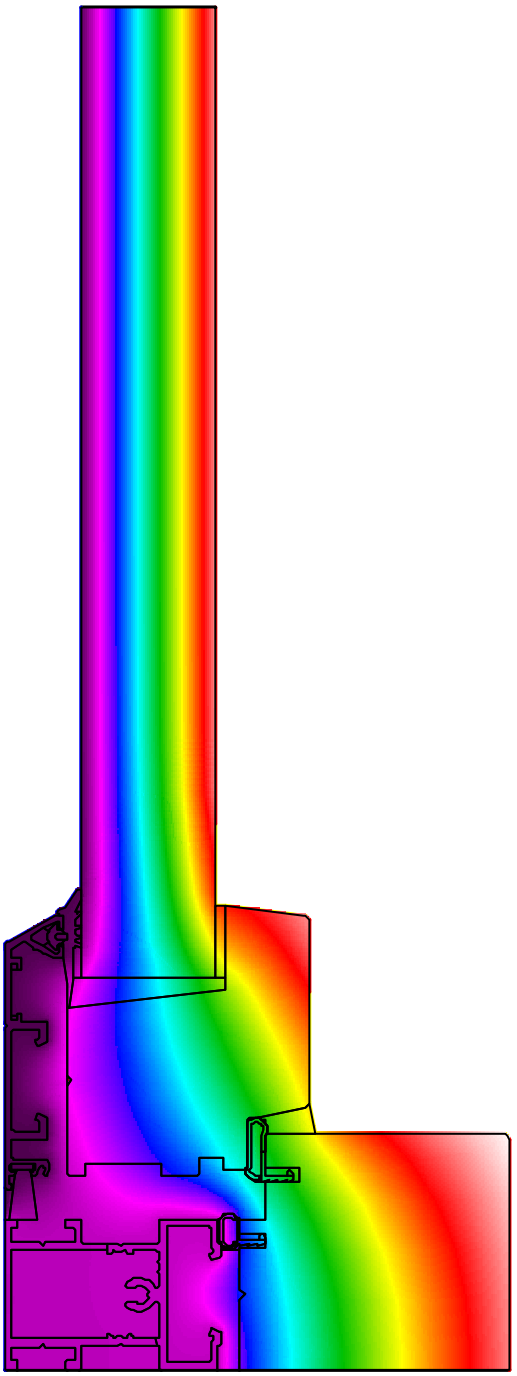

Therm Version 5.2 (5.2.14)
Date: Thu Jun 29 12:08:42 2006

Created by:
Created for:

Therm Filename: F:\Design\P5\THERMAL\AluCladExt_Sash_Insul.THM
Cross Section Type: Sill
Underlay Name:

U-factors

Name	Length mm	Basis	U-factor W/m2-K
Linear Transmittance	288.29	Projected Y	1.2273

Solid Materials

Name	Conductivity W/m-K	Emissivity
CEN Insulation Panel	0.04	0.90
CEN Foam Rubber	0.06	0.90
CEN Softwood	0.13	0.90
CEN EPDM	0.25	0.90
CEN Polyamide Nylon	0.25	0.90
CEN Mohair (Sweep)	0.14	0.90
CEN Aluminium	160.00	0.90

Cavities

Name: CEN Cavity
Gas Fill: Air
Convection Model: CEN
Radiation Model: Standard

Poly ID	Heat Flow Dir	Side 1 Temp C	Side 1 Emis	Side 2 Temp C	Side 2 Emis	Dimension Horz. mm	Dimension Vert. mm	Nu #	Keff W/m-K	Cavity Height mm
18	Horizontal	15.00	0.90	5.00	0.90	2.42	1.41	N/A	0.0319	N/A
31	Horizontal	15.00	0.90	5.00	0.90	2.74	5.57	N/A	0.0347	N/A
50	Horizontal	15.00	0.90	5.00	0.90	4.43	1.30	N/A	0.0366	N/A
51	Horizontal	15.00	0.90	5.00	0.90	0.47	1.25	N/A	0.0267	N/A
8	Horizontal	15.00	0.90	5.00	0.90	2.40	9.61	N/A	0.0342	N/A
9	Horizontal	15.00	0.90	5.00	0.90	5.61	2.24	N/A	0.0402	N/A
38	Horizontal	15.00	0.90	5.00	0.90	27.87	5.52	N/A	0.1140	N/A
71	Horizontal	15.00	0.90	5.00	0.90	2.93	2.94	N/A	0.0342	N/A
13	Horizontal	15.00	0.90	5.00	0.90	30.06	18.19	N/A	0.1339	N/A
34	Horizontal	15.00	0.90	5.00	0.90	0.79	0.19	N/A	0.0270	N/A
46	Horizontal	15.00	0.90	5.00	0.90	0.87	0.15	N/A	0.0272	N/A
47	Horizontal	15.00	0.90	5.00	0.90	0.61	0.10	N/A	0.0265	N/A
52	Horizontal	15.00	0.90	5.00	0.90	0.71	1.41	N/A	0.0275	N/A
17	Horizontal	15.00	0.90	5.00	0.90	0.94	0.62	N/A	0.0277	N/A
48	Horizontal	15.00	0.90	5.00	0.90	12.11	4.93	N/A	0.0579	N/A
53	Horizontal	15.00	0.90	5.00	0.90	16.03	5.33	N/A	0.0677	N/A
45	Horizontal	15.00	0.90	5.00	0.90	14.86	27.35	N/A	0.0768	N/A
59	Horizontal	7.00	0.90	-4.00	0.90	1.61	5.70	N/A	0.0306	N/A
10	Horizontal	15.00	0.90	5.00	0.90	0.59	2.20	N/A	0.0272	N/A
12	Horizontal	15.00	0.90	5.00	0.90	0.88	1.90	N/A	0.0281	N/A
24	Horizontal	15.00	0.90	5.00	0.90	0.95	1.27	N/A	0.0282	N/A
25	Horizontal	15.00	0.90	5.00	0.90	0.89	1.09	N/A	0.0279	N/A
26	Horizontal	15.00	0.90	5.00	0.90	1.31	6.25	N/A	0.0301	N/A
28	Horizontal	15.00	0.90	5.00	0.90	2.50	1.33	N/A	0.0321	N/A
30	Horizontal	15.00	0.90	5.00	0.90	4.15	0.84	N/A	0.0355	N/A
58	Horizontal	15.00	0.90	5.00	0.90	1.19	0.99	N/A	0.0286	N/A
33	Horizontal	15.00	0.90	5.00	0.90	0.68	0.95	N/A	0.0273	N/A
62	Horizontal	15.00	0.90	5.00	0.90	1.31	1.31	N/A	0.0291	N/A
73	Horizontal	15.00	0.90	5.00	0.90	2.03	1.07	N/A	0.0307	N/A
107	Horizontal	15.00	0.90	5.00	0.90	0.83	2.25	N/A	0.0281	N/A
108	Horizontal	15.00	0.90	5.00	0.90	0.78	1.01	N/A	0.0276	N/A

Name: CEN Cavity SV
Gas Fill: Air
Convection Model: CEN Ventilated
Radiation Model: Standard

Poly ID	Heat Flow Dir	Side 1 Temp C	Side 1 Emis	Side 2 Temp C	Side 2 Emis	Dimension Horz. mm	Dimension Vert. mm	Nu #	Keff W/m-K	Cavity Height mm
83	Horizontal	15.00	0.90	5.00	0.90	9.64	4.97	N/A	0.1042	N/A

Name: CEN Cavity Detailed
Gas Fill: Air
Convection Model: CEN
Radiation Model: Advanced

Poly ID	Heat Flow Dir	Side 1 Temp C	Side 1 Emis	Side 2 Temp C	Side 2 Emis	Dimension Horz. mm	Dimension Vert. mm	Nu #	Keff W/m-K	Cavity Height mm
35	Horizontal	15.00	0.90	5.00	0.90	30.89	36.94	N/A	0.0486	N/A

Glazing Systems

None

Standard Boundary Conditions

Name	Temperature C	Film Coefficient W/m2-K
CEN Interior	20.00	7.691
CEN Reduced Radiation	20.00	5.000
CEN Exterior	0.00	25.000

Calculation Specifications

Mesh Parameter : 6
Estimated Error: 5.2%
Calculations done in Version 5.2 (5.2.14)