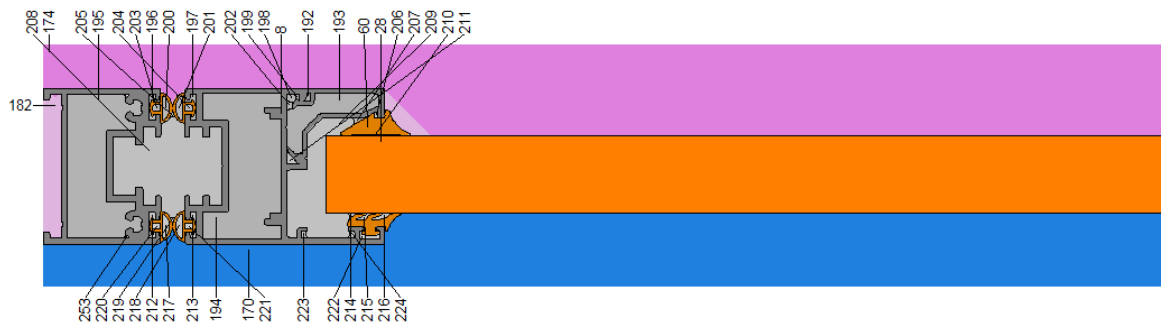**GRAPHICS**
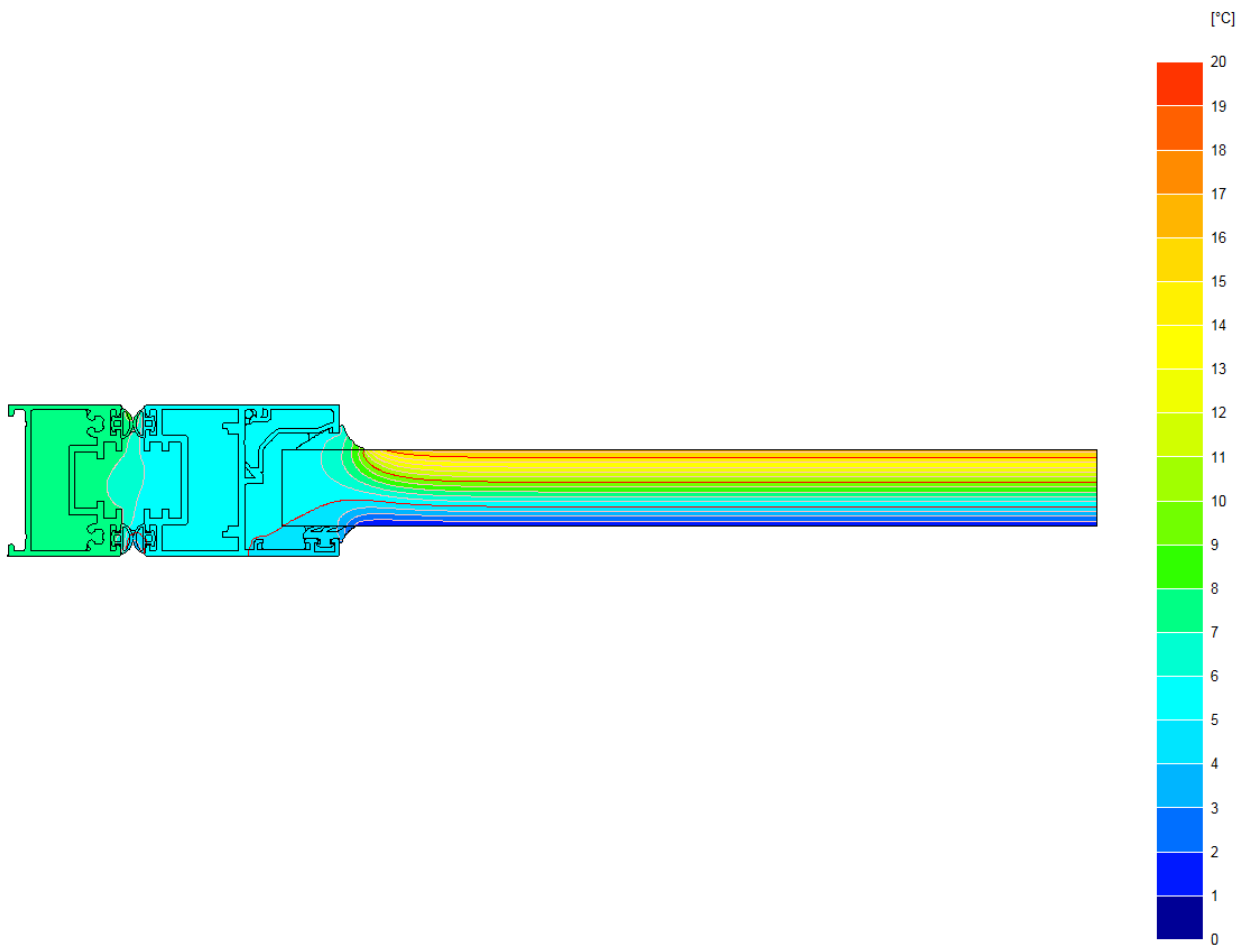

Figure 1. Frame section (with colour numbers)

Figure 2. Isotherms (colour increment of 1°C, line increments of 1°C and 5°C)
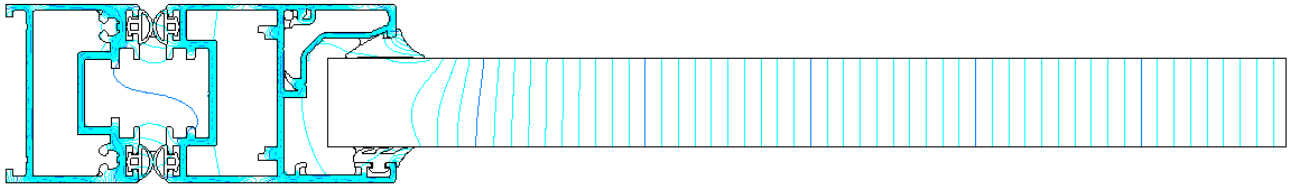
Figure 3. Heat flow lines (increment 0.1 W/m).

BISCO DATA SUMMARY

BISCO data file name	**bisco_temp.tif.bsc**
Bitmap file name	**bisco_temp.tif.bmp**
Pixel width	**0.0001 m**
Triangulation size	**5 pixels**
Number of nodes	**34535**

Material thermal conductivity table

```
    Col.  Name                   lambda      eps
                                 [W/mK]      [-]
    8     aluminium              160.000
    28    insulation             0.035
    60    EPDM                   0.250
    253   cavity <1x1 mm2        0.028
```

Boundary condition table

```
    Col.  Name               t      h      q
                             [-C]   [W/m⸴K]      [W/m⸴]
    170   exterior           0.0    25.00  0
    174   interior (normal)  20.0   7.70   0
    182   interior (reduced) 20.0   5.00   0
```

Cavity equivalent thermal conductivity table

```
Col.  lambda            Col.  lambda          Col.  lambda          Col.
lambda
      [W/mK]                   [W/mK]                [W/mK]
[W/mK]
192   0.029        193   0.055        194   0.107        195   0.104
196   0.031        197   0.031        198   0.031        199   0.029
200   0.038        201   0.030        202   0.029        203   0.030
204   0.030        205   0.028        206   0.028        207   0.029
208   0.092        209   0.082        210   0.044        211   0.032
212   0.031        213   0.031        214   0.030        215   0.033
216   0.034        217   0.030        218   0.030        219   0.028
220   0.030        221   0.030        222   0.034        223   0.029
224   0.029
```

BISCO MAIN RESULTS

U-value of frame	**7.954 W/(m^2.K)**
Width of frame	**0.0876 m**
U-value of panel 1	**1.349 W/(m^2.K)**
Width of panel 1	**0.1998 m**

Frame thermal transmittance calculation table
```
Thermal transmittance of frame (EN 10077-2)
Uf = (Q/(ti-te) - Up1*wp1 - Up2*wp2) / wf = 7.954 W/(m².K)
  Q = 19.325 W/m
  ti = 20.00°C
  te = 0.00°C
  Up1 = 1.349 W/(m².K)   (right edge of bitmap)
  wp1 = 0.1998 m         (distance no. 2)
  Up2 = 0.000 W/(m².K)
  wp2 = 0.0000 m
  wf = 0.0876 m          (distance no. 1)
```