## GRAPHICS

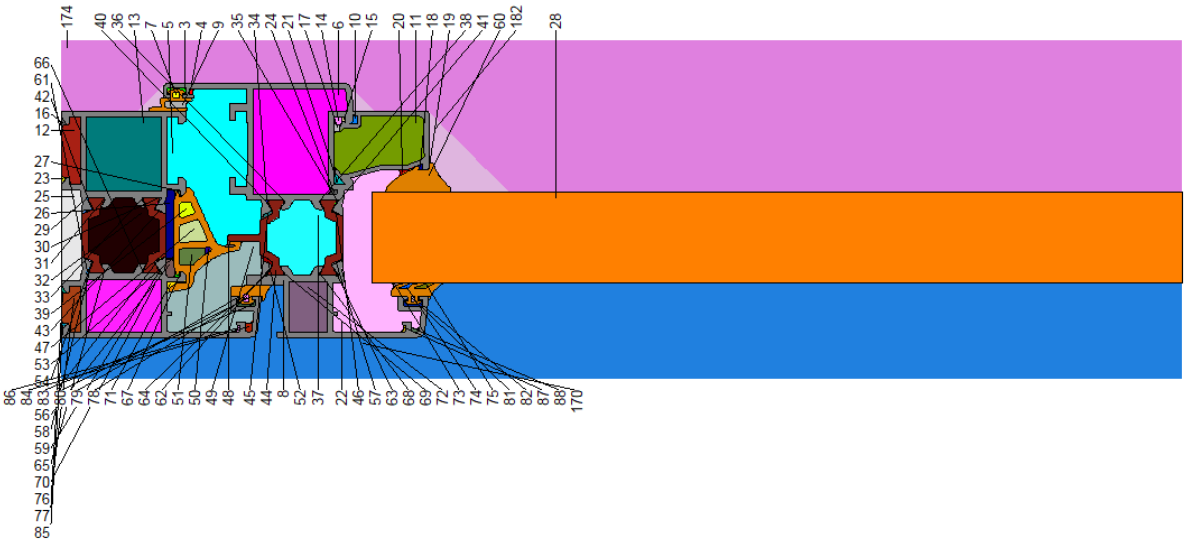


Figure 1. Frame section (with colour numbers)

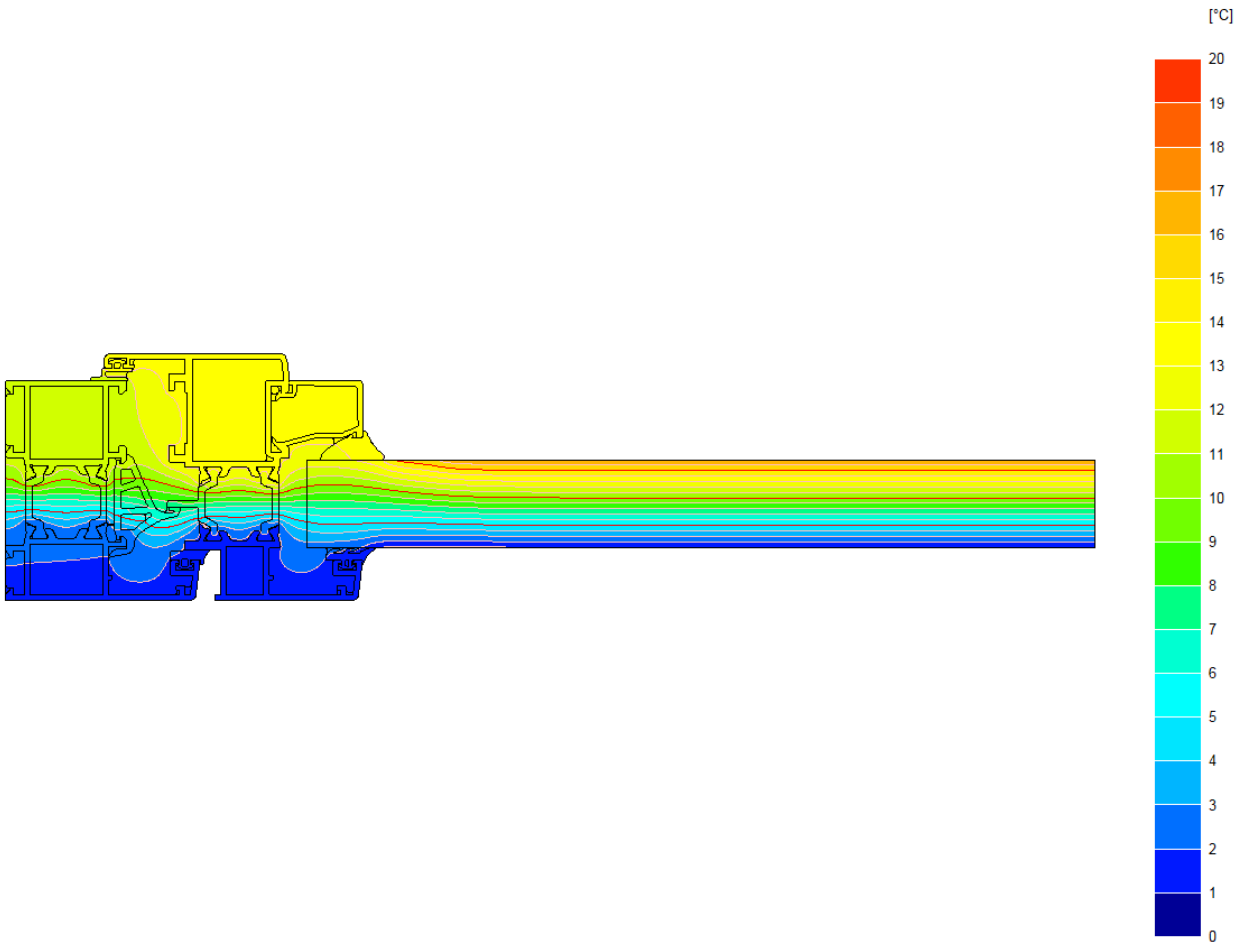


Figure 2. Isotherms (colour increment of 1°C, line increments of 1°C and 5°C)

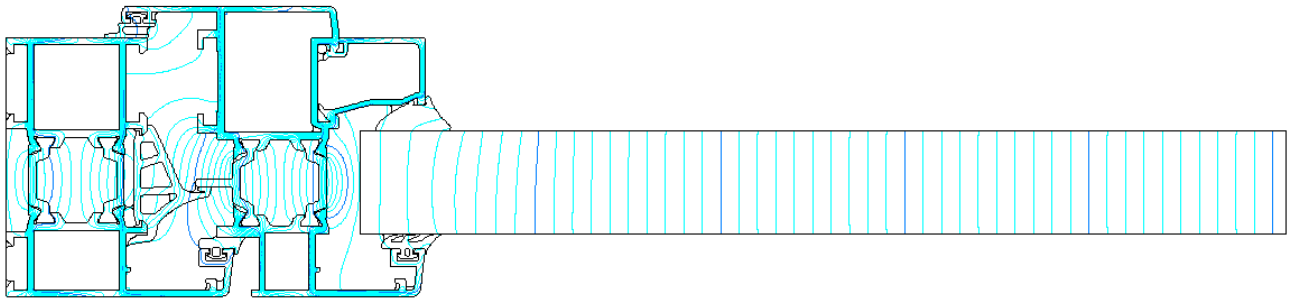

Figure 3. Heat flow lines (increment 0.1 W/m).

## 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 | **50753** |

Material thermal conductivity table

| Col. | Name | lambda [W/mK] | eps [-] |
|---|---|---|---|
| 8 | aluminium | 160.000 | |
| 28 | insulation | 0.035 | |
| 44 | polyamid reinf. | 0.300 | |
| 60 | EPDM | 0.250 | |

Boundary condition table

| Col. | Name | t [-C] | h [W/m²K] | q [W/m²] |
|---|---|---|---|---|
| 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 [W/mK] | Col. | lambda [W/mK] | Col. | lambda [W/mK] | Col. | lambda [W/mK] |
|---|---|---|---|---|---|---|---|
| 3 | 0.029 | 4 | 0.028 | 5 | 0.134 | 6 | 0.102 |
| 7 | 0.030 | 9 | 0.031 | 10 | 0.029 | 11 | 0.071 |
| 12 | 0.067 | 13 | 0.085 | 14 | 0.031 | 15 | 0.028 |
| 16 | 0.029 | 17 | 0.030 | 18 | 0.028 | 19 | 0.026 |
| 20 | 0.030 | 21 | 0.031 | 22 | 0.126 | 23 | 0.029 |
| 24 | 0.029 | 25 | 0.088 | 26 | 0.059 | 27 | 0.028 |
| 29 | 0.027 | 30 | 0.027 | 31 | 0.026 | 32 | 0.075 |
| 33 | 0.026 | 34 | 0.027 | 35 | 0.027 | 36 | 0.026 |
| 37 | 0.076 | 38 | 0.027 | 39 | 0.036 | 40 | 0.026 |
| 41 | 0.026 | 42 | 0.027 | 43 | 0.027 | 45 | 0.030 |
| 46 | 0.027 | 47 | 0.041 | 48 | 0.028 | 49 | 0.078 |
| 50 | 0.029 | 51 | 0.037 | 52 | 0.029 | 53 | 0.028 |
| 54 | 0.027 | 55 | 0.027 | 56 | 0.033 | 57 | 0.027 |
| 58 | 0.025 | 59 | 0.027 | 61 | 0.027 | 62 | 0.025 |
| 63 | 0.028 | 64 | 0.027 | 65 | 0.026 | 66 | 0.026 |
| 67 | 0.028 | 68 | 0.026 | 69 | 0.026 | 70 | 0.066 |
| 71 | 0.031 | 72 | 0.059 | 73 | 0.028 | 74 | 0.028 |
| 75 | 0.029 | 76 | 0.051 | 77 | 0.029 | 78 | 0.030 |
| 79 | 0.026 | 80 | 0.026 | 81 | 0.029 | 82 | 0.032 |
| 83 | 0.029 | 84 | 0.030 | 85 | 0.029 | 86 | 0.028 |
| 87 | 0.028 | 88 | 0.029 | | | | |

## BISCO MAIN RESULTS

| | |
|---|---|
| U-value of frame | **3.248 W/(m$^2$.K)** |
| Width of frame | **0.0972 m** |
| U-value of panel 1 | **1.173 W/(m$^2$.K)** |
| Width of panel 1 | **0.1995 m** |

Frame thermal transmittance calculation table

```
Thermal transmittance of frame (EN 10077-2)
Uf = (Q/(ti-te) - Up1*wp1 - Up2*wp2) / wf = 3.248 W/(m².K)
  Q = 10.994 W/m
  ti = 20.00°C
  te = 0.00°C
  Up1 = 1.173 W/(m².K)  (right edge of bitmap)
  wp1 = 0.1995 m        (distance no. 2)
  Up2 = 0.000 W/(m².K)
  wp2 = 0.0000 m
  wf = 0.0972 m         (distance no. 1)
```