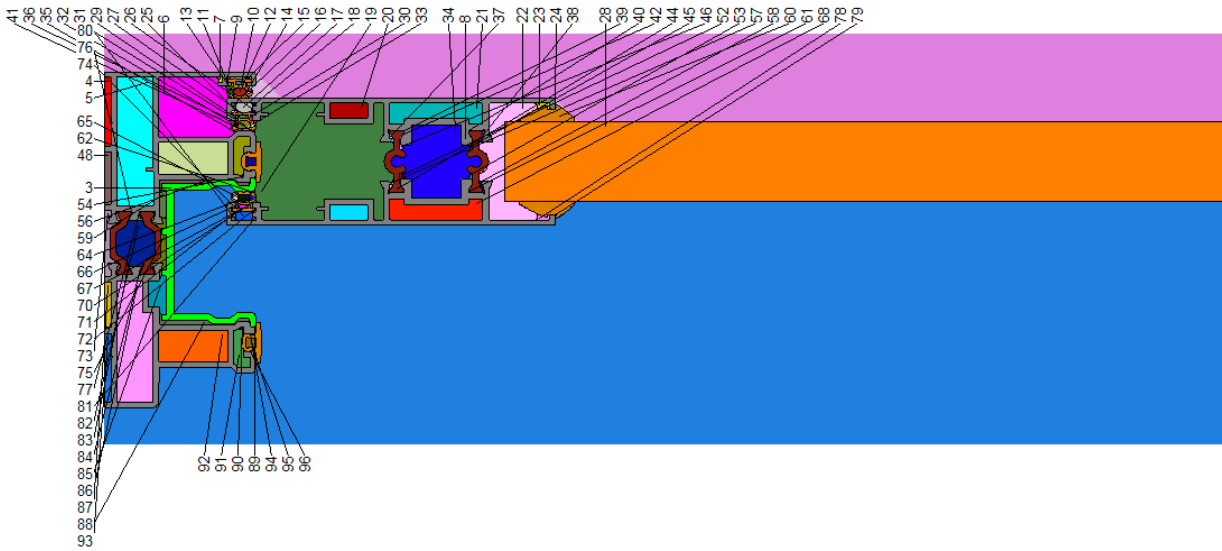# REPORT SAMPLE

## GRAPHICS
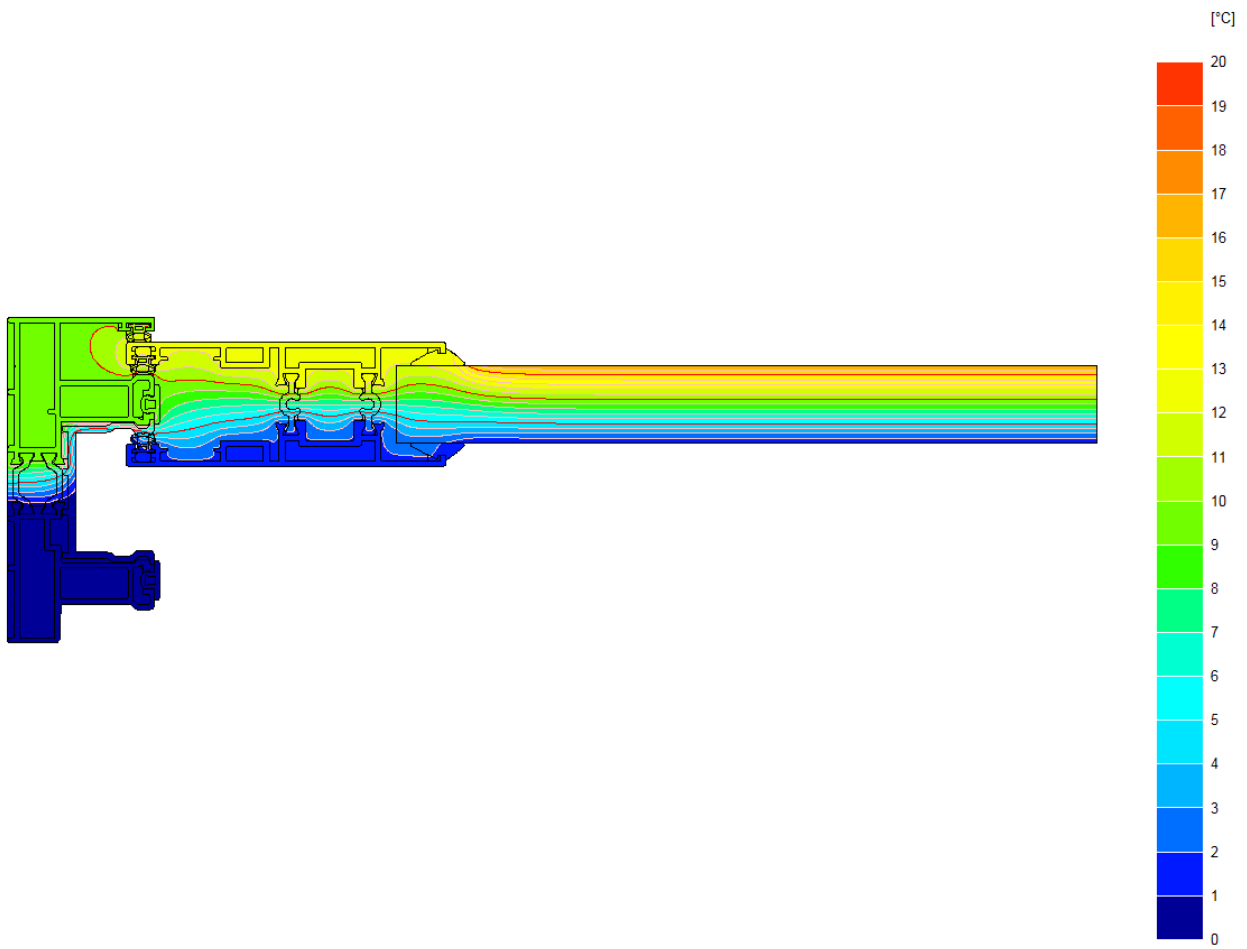


Figure 1. Frame section (with colour numbers)

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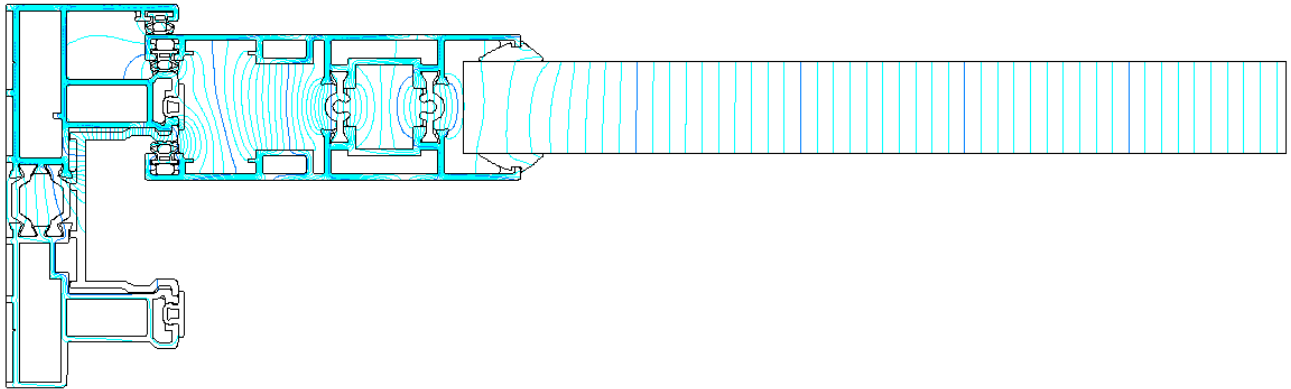
Figure 3.  Heat flow lines (increment 0.1 W/m).

## 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          **54070**

Material thermal conductivity table

```
     Col.  Name                  lambda      eps
                                 [W/mK]      [-]
     8     aluminium             160.000
     28    insulation            0.035
     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        Col. lambda          Col. lambda          Col.
     lambda
```

| | [W/mK] | | [W/mK] | | [W/mK] | | [W/mK] |
|---|---|---|---|---|---|---|---|
| 3 | 0.074 | 4 | 0.067 | 5 | 0.116 | 6 | 0.086 |
| 7 | 0.029 | 9 | 0.028 | 10 | 0.028 | 11 | 0.030 |
| 12 | 0.032 | 13 | 0.029 | 14 | 0.029 | 15 | 0.027 |
| 16 | 0.029 | 17 | 0.034 | 18 | 0.029 | 19 | 0.140 |
| 20 | 0.042 | 21 | 0.047 | 22 | 0.095 | 23 | 0.030 |
| 24 | 0.026 | 25 | 0.028 | 26 | 0.029 | 27 | 0.028 |
| 29 | 0.029 | 30 | 0.029 | 31 | 0.032 | 32 | 0.029 |
| 33 | 0.029 | 34 | 0.082 | 35 | 0.028 | 36 | 0.027 |
| 37 | 0.031 | 38 | 0.029 | 39 | 0.026 | 40 | 0.026 |
| 41 | 0.025 | 42 | 0.026 | 43 | 0.049 | 44 | 0.055 |
| 45 | 0.030 | 46 | 0.030 | 47 | 0.058 | 48 | 0.060 |
| 49 | 0.026 | 50 | 0.033 | 51 | 0.026 | 52 | 0.030 |
| 53 | 0.030 | 54 | 0.028 | 55 | 0.026 | 56 | 0.032 |
| 57 | 0.031 | 58 | 0.028 | 59 | 0.033 | 61 | 0.026 |
| 62 | 0.027 | 63 | 0.026 | 64 | 0.032 | 65 | 0.029 |
| 66 | 0.029 | 67 | 0.029 | 68 | 0.045 | 69 | 0.040 |
| 70 | 0.028 | 71 | 0.027 | 72 | 0.028 | 73 | 0.054 |
| 74 | 0.036 | 75 | 0.050 | 76 | 0.027 | 77 | 0.027 |
| 78 | 0.030 | 79 | 0.026 | 80 | 0.028 | 81 | 0.028 |
| 82 | 0.058 | 83 | 0.027 | 84 | 0.027 | 85 | 0.040 |
| 86 | 0.059 | 87 | 0.053 | 88 | 0.031 | 89 | 0.026 |
| 90 | 0.027 | 91 | 0.037 | 92 | 0.055 | 93 | 0.063 |
| 94 | 0.026 | 95 | 0.033 | 96 | 0.026 | | |

## BISCO MAIN RESULTS

| | |
|---|---|
| U-value of frame | **3.654 W/(m$^2$.K)** |
| Width of frame | **0.1343 m** |
| U-value of panel 1 | **1.169 W/(m$^2$.K)** |
| Width of panel 1 | **0.1997 m** |

Frame thermal transmittance calculation table
```
Thermal transmittance of frame (EN 10077-2)
Uf = (Q/(ti-te) - Up1*wp1 - Up2*wp2) / wf = 3.654 W/(m².K)
  Q = 14.483 W/m
  ti = 20.00°C
  te = 0.00°C
  Up1 = 1.169 W/(m².K)  (right edge of bitmap)
  wp1 = 0.1997 m        (distance no. 2)
  Up2 = 0.000 W/(m².K)
  wp2 = 0.0000 m
  wf = 0.1343 m         (distance no. 1)
```