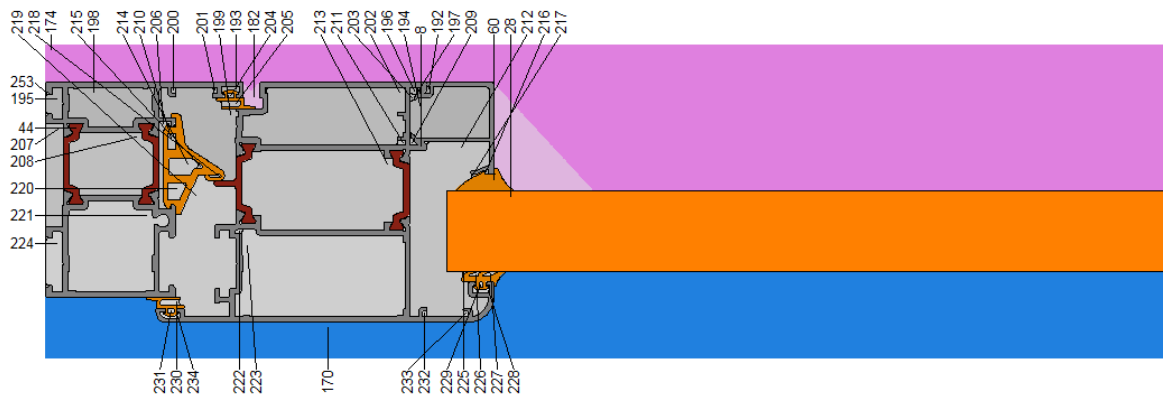## GRAPHICS

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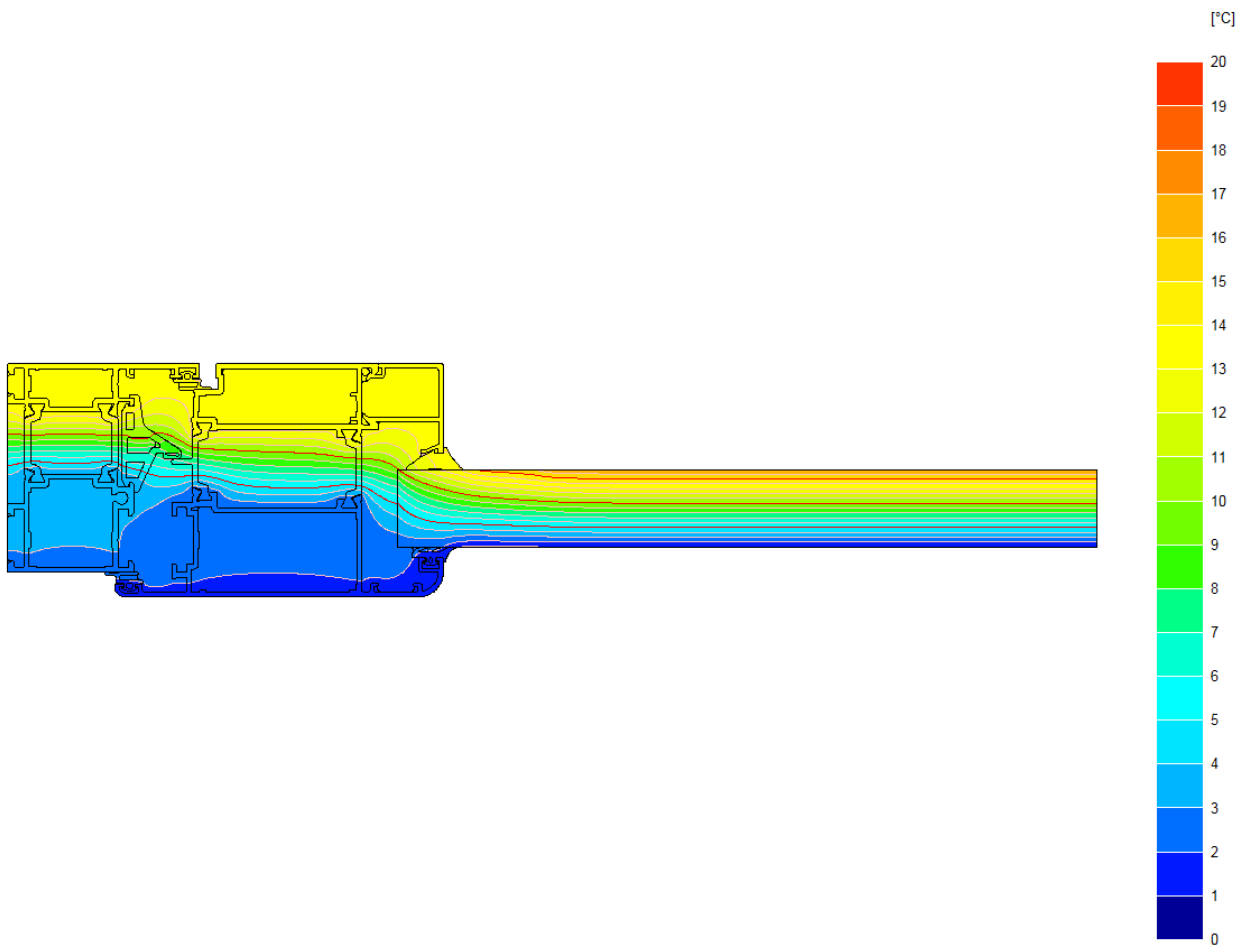
Figure 2. Isotherms (colour increment of 1°C, line increments of 1°C and 5°C)
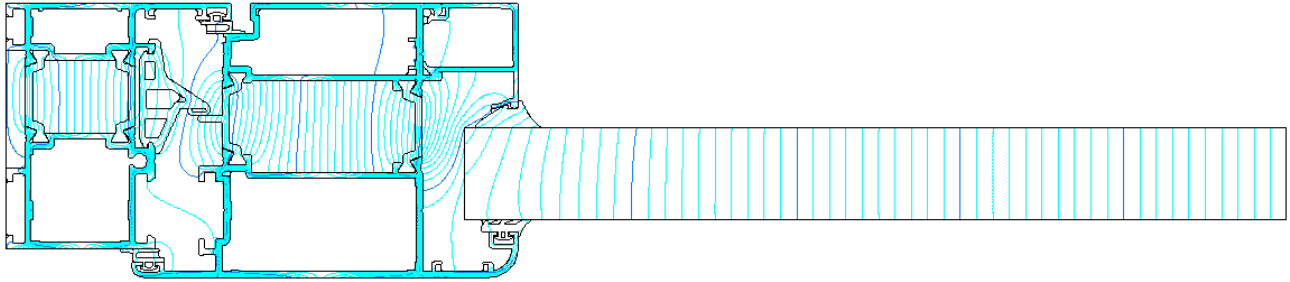
Figure 3. Heat flow lines (increment 0.1 W/m).

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	**65816**

Material thermal conductivity table

```
    Col.  Name                lambda      eps
                              [W/mK]      [-]
    8     aluminium           160.000
    28    insulation          0.035
    44    polyamid reinf.     0.300
    60    EPDM                0.250
    253   cavity <1x1 mm2     0.028
```

Boundary condition table

```
    Col.  Name                t       h      q
                              [-C]    [W/m²K]       [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]
192  0.030      193  0.036      194  0.075      195  0.048
196  0.031      197  0.028      198  0.064      199  0.089
200  0.030      201  0.030      202  0.085      203  0.029
204  0.030      205  0.031      206  0.054      207  0.113
208  0.087      209  0.030      210  0.038      211  0.029
212  0.173      213  0.114      214  0.040      215  0.029
216  0.028      217  0.029      218  0.028      219  0.137
220  0.038      221  0.094      222  0.028      223  0.102
224  0.063      225  0.028      226  0.028      227  0.028
228  0.032      229  0.029      230  0.030      231  0.029
232  0.029      233  0.029      234  0.034
```

BISCO MAIN RESULTS

U-value of frame	**3.109 W/(m²·K)**
Width of frame	**0.1337 m**
U-value of panel 1	**1.173 W/(m²·K)**
Width of panel 1	**0.2006 m**

Frame thermal transmittance calculation table
```
Thermal transmittance of frame (EN 10077-2)
Uf = (Q/(ti-te) - Up1*wp1 - Up2*wp2) / wf = 3.109 W/(m².K)
  Q = 13.018 W/m
  ti = 20.00°C
  te = 0.00°C
  Up1 = 1.173 W/(m².K)   (right edge of bitmap)
  wp1 = 0.2006 m         (distance no. 2)
  Up2 = 0.000 W/(m².K)
  wp2 = 0.0000 m
  wf = 0.1337 m          (distance no. 1)
```