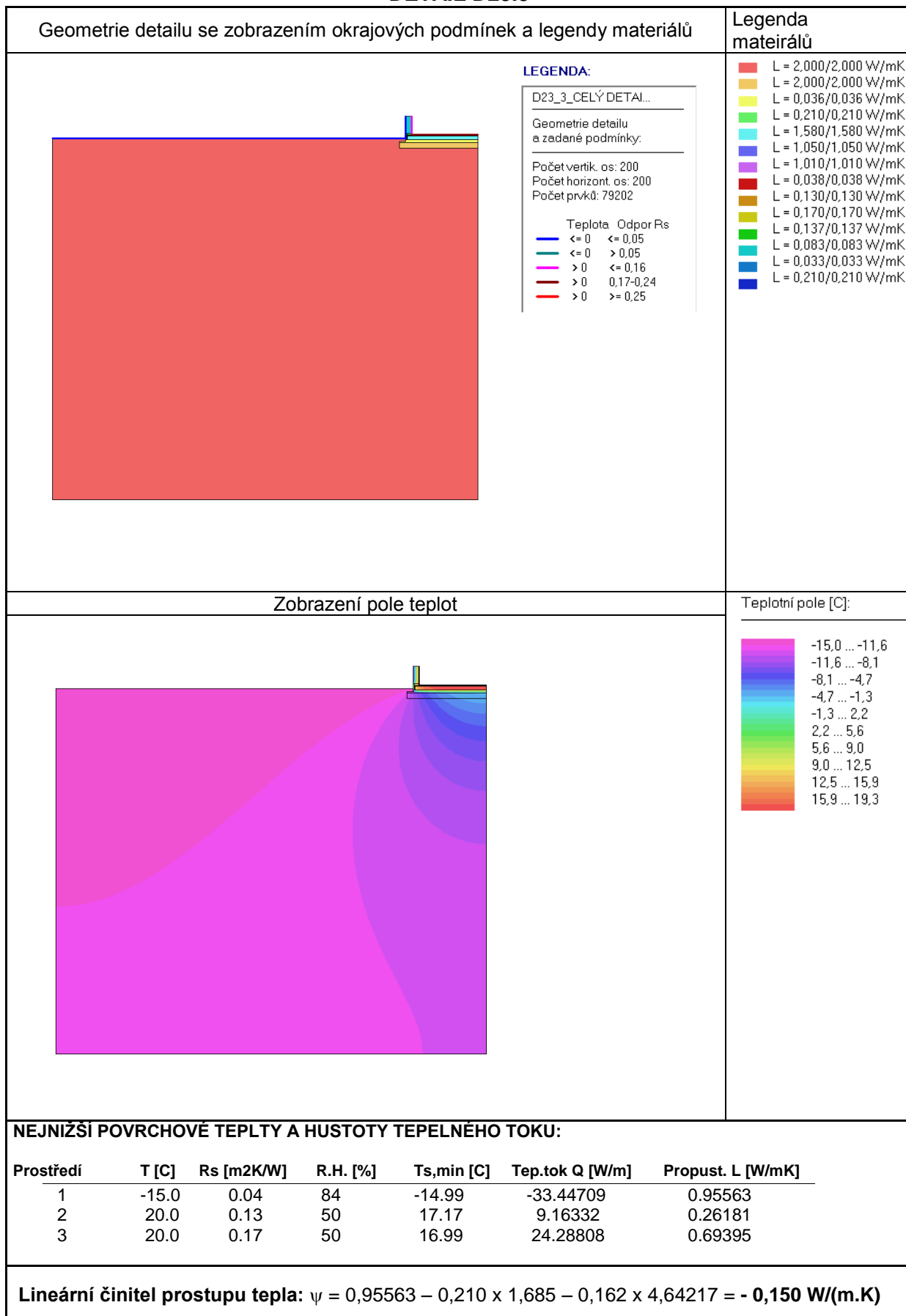
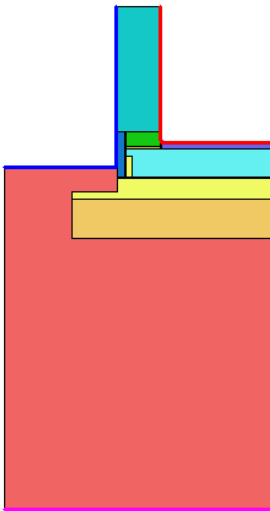


DETAIL D23.3

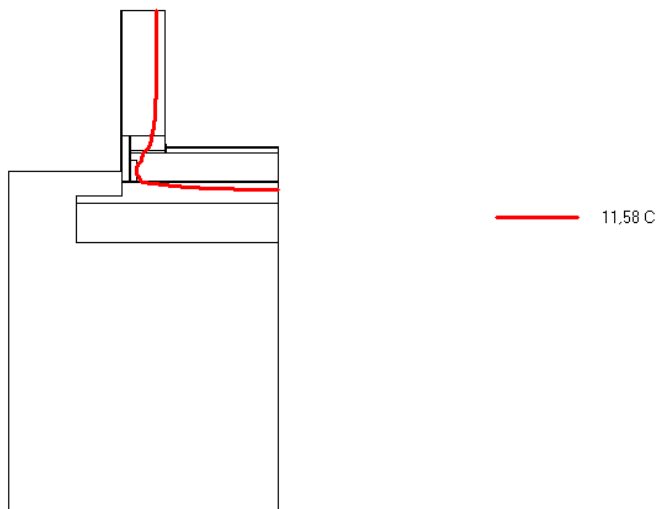


Posouzení hygienického kritéria

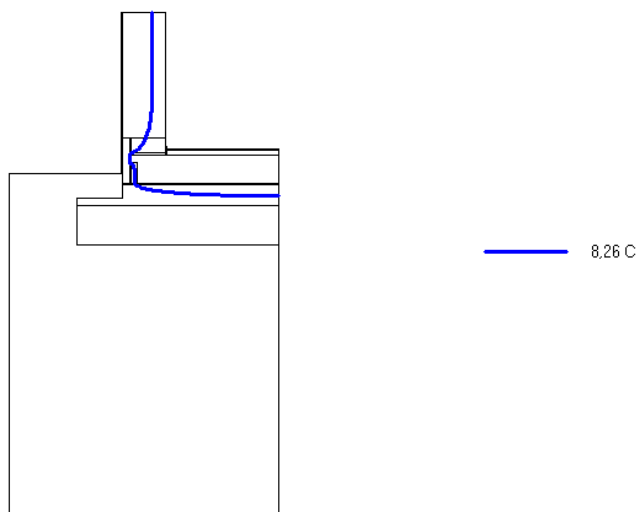
Geometrie detailu se zobrazením okrajových podmínek a legendy materiálů	Legenda materiálů																																								
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 45%; border: 1px solid black; padding: 5px;"> <p>LEGENDA:</p> <p>D23_3_CELÝ DETAI...</p> <p>Geometrie detailu a zadané podmínky:</p> <p>Počet vert. os: 200 Počet horizont. os: 200 Počet prvků: 79202</p> <table style="font-size: small; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Teplota</th> <th style="text-align: left;">Odpor Rs</th> </tr> </thead> <tbody> <tr><td style="color: blue;">—</td><td><= 0 <= 0,05</td></tr> <tr><td style="color: green;">—</td><td><= 0 > 0,05</td></tr> <tr><td style="color: cyan;">—</td><td>> 0 <= 0,16</td></tr> <tr><td style="color: magenta;">—</td><td>> 0 0,17-0,24</td></tr> <tr><td style="color: red;">—</td><td>> 0 >= 0,25</td></tr> </tbody> </table> </div> </div>	Teplota	Odpor Rs	—	<= 0 <= 0,05	—	<= 0 > 0,05	—	> 0 <= 0,16	—	> 0 0,17-0,24	—	> 0 >= 0,25	<table style="font-size: x-small; border-collapse: collapse;"> <tbody> <tr><td style="color: red;">■</td><td>L = 2,000/2,000 W/mK</td></tr> <tr><td style="color: yellow;">■</td><td>L = 2,000/2,000 W/mK</td></tr> <tr><td style="color: lightgreen;">■</td><td>L = 0,036/0,036 W/mK</td></tr> <tr><td style="color: lightblue;">■</td><td>L = 0,210/0,210 W/mK</td></tr> <tr><td style="color: cyan;">■</td><td>L = 1,580/1,580 W/mK</td></tr> <tr><td style="color: purple;">■</td><td>L = 1,050/1,050 W/mK</td></tr> <tr><td style="color: magenta;">■</td><td>L = 1,010/1,010 W/mK</td></tr> <tr><td style="color: red;">■</td><td>L = 0,038/0,038 W/mK</td></tr> <tr><td style="color: orange;">■</td><td>L = 0,130/0,130 W/mK</td></tr> <tr><td style="color: yellow;">■</td><td>L = 0,170/0,170 W/mK</td></tr> <tr><td style="color: lightgreen;">■</td><td>L = 0,137/0,137 W/mK</td></tr> <tr><td style="color: cyan;">■</td><td>L = 0,083/0,083 W/mK</td></tr> <tr><td style="color: blue;">■</td><td>L = 0,033/0,033 W/mK</td></tr> <tr><td style="color: darkblue;">■</td><td>L = 0,210/0,210 W/mK</td></tr> </tbody> </table>	■	L = 2,000/2,000 W/mK	■	L = 2,000/2,000 W/mK	■	L = 0,036/0,036 W/mK	■	L = 0,210/0,210 W/mK	■	L = 1,580/1,580 W/mK	■	L = 1,050/1,050 W/mK	■	L = 1,010/1,010 W/mK	■	L = 0,038/0,038 W/mK	■	L = 0,130/0,130 W/mK	■	L = 0,170/0,170 W/mK	■	L = 0,137/0,137 W/mK	■	L = 0,083/0,083 W/mK	■	L = 0,033/0,033 W/mK	■	L = 0,210/0,210 W/mK
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Posouzení hygienického kritéria

Zobrazení průběhu izotermy – riziko vzniku plísní



Zobrazení průběhu izotermy – rosný bod



Nejnižší vnitřní povrchová teplota konstrukce $\theta_{si} = 16,28 \text{ °C}$
Teplotní faktor vnitřního povrchu $f_{Rsi} = 0,894$

Posouzení hygienického kritéria

$$\theta_{si} = 16,28 \text{ °C} > \theta_{si,80} + \Delta\theta_{si} = 11,58 \text{ °C} - \text{vyhovuje}$$

$$\theta_{si} = \theta_{ai} - (1 - f_{Rsi}) \times (\theta_{ai} - \theta_e) \quad (\text{Uvažované } \theta_{ai} = 20,6 \text{ °C}, \theta_e = -15 \text{ °C})$$