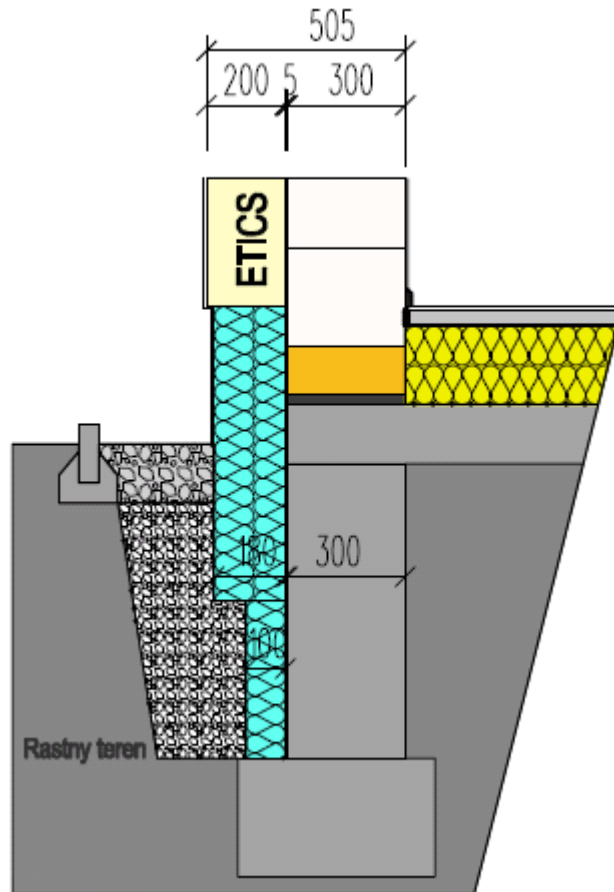




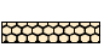
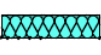
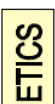



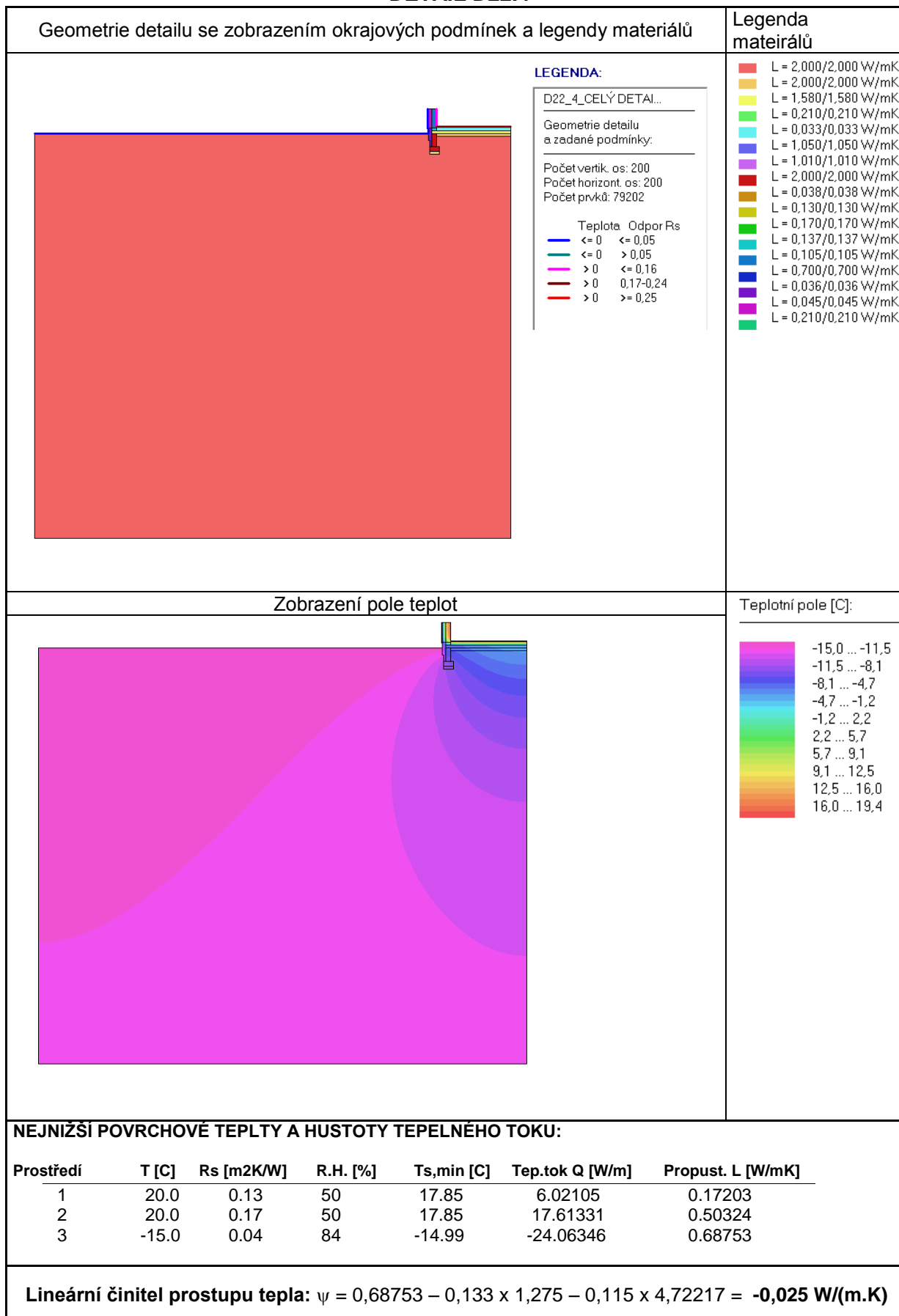
Detail paty stěny domu založeného na základových pasech

Stěna Ytong Standard, tl. 300 mm zateplená kontaktním zateplovacím systémem pomocí Multiporu, tl. 200 mm, základací tvárnice Start, tl. 300 mm

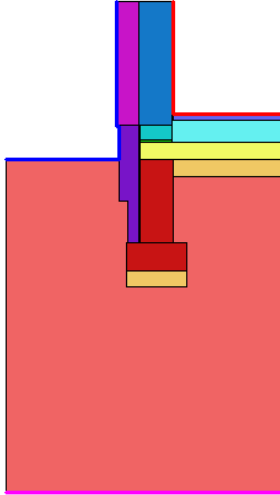
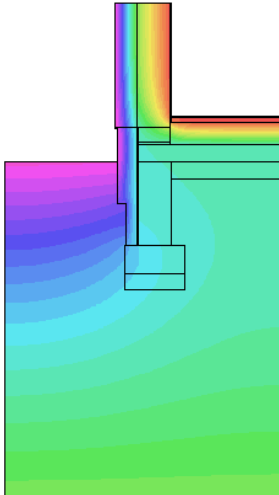


	Ytong
	Ytong Start - základací tvárnice
	Grafitový EPS součást Ytong věncové tvárnice a Ytong u-Profilu YQ
	Tepelná izolace bez specifikace (Multipor, EPS, minerální vlna)
	Tepelná izolace PUR/PIR
	Nenasákavá tepelná izolace (XPS)
	ETICS bez rozlišení typu (Multipor, EPS, Grafit EPS, minerální vlna, PUR/PIR)
	Beton

DETAIL D22.4

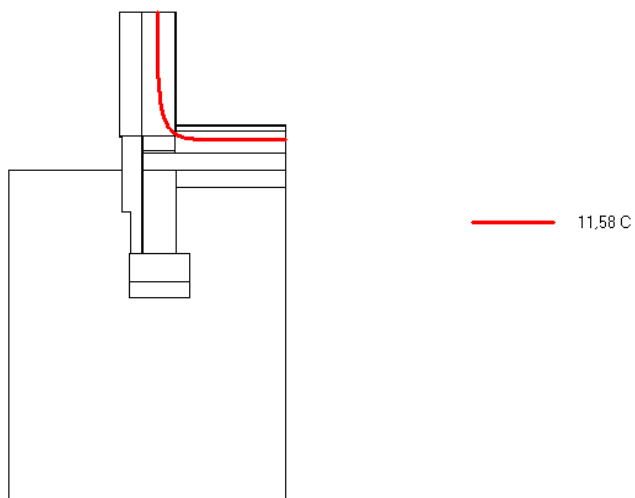


Posouzení hygienického kritéria

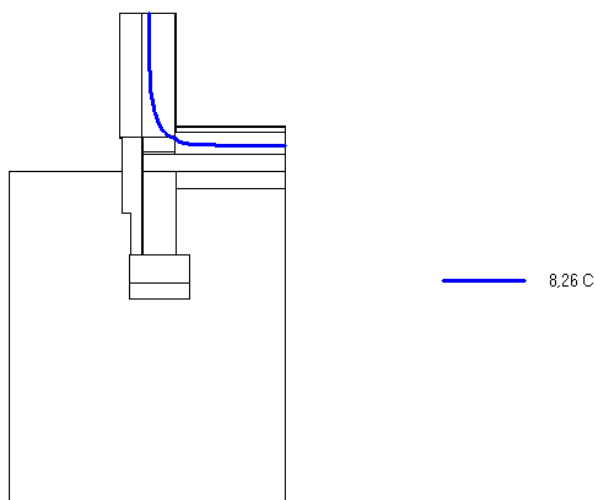
Geometrie detailu se zobrazením okrajových podmínek a legendy materiálů	Legenda materiálů																																														
<div style="text-align: right; margin-bottom: 10px;">LEGENDA:</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">D22_4_CELÝ DETAIL...</div> <p>Geometrie detailu a zadané podmínky:</p> <p>Počet vert. os: 200 Počet horizont. os: 200 Počet prvků: 79202</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Teplota</th> <th style="text-align: left; padding: 2px;">Odpor Rs</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">— <= 0</td> <td style="padding: 2px;">— <= 0,05</td> </tr> <tr> <td style="padding: 2px;">— <= 0</td> <td style="padding: 2px;">— > 0,05</td> </tr> <tr> <td style="padding: 2px;">— > 0</td> <td style="padding: 2px;">— <= 0,16</td> </tr> <tr> <td style="padding: 2px;">— > 0</td> <td style="padding: 2px;">— 0,17-0,24</td> </tr> <tr> <td style="padding: 2px;">— > 0</td> <td style="padding: 2px;">— >= 0,25</td> </tr> </tbody> </table> 	Teplota	Odpor Rs	— <= 0	— <= 0,05	— <= 0	— > 0,05	— > 0	— <= 0,16	— > 0	— 0,17-0,24	— > 0	— >= 0,25	<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td style="width: 15px; background-color: red;"></td><td>L = 2,000/2,000 W/mK</td></tr> <tr><td style="width: 15px; background-color: yellow;"></td><td>L = 2,000/2,000 W/mK</td></tr> <tr><td style="width: 15px; background-color: lightyellow;"></td><td>L = 1,580/1,580 W/mK</td></tr> <tr><td style="width: 15px; background-color: lightgreen;"></td><td>L = 0,210/0,210 W/mK</td></tr> <tr><td style="width: 15px; background-color: cyan;"></td><td>L = 0,033/0,033 W/mK</td></tr> <tr><td style="width: 15px; background-color: blue;"></td><td>L = 1,050/1,050 W/mK</td></tr> <tr><td style="width: 15px; background-color: purple;"></td><td>L = 1,010/1,010 W/mK</td></tr> <tr><td style="width: 15px; background-color: brown;"></td><td>L = 2,000/2,000 W/mK</td></tr> <tr><td style="width: 15px; background-color: orange;"></td><td>L = 0,038/0,038 W/mK</td></tr> <tr><td style="width: 15px; background-color: gold;"></td><td>L = 0,130/0,130 W/mK</td></tr> <tr><td style="width: 15px; background-color: green;"></td><td>L = 0,170/0,170 W/mK</td></tr> <tr><td style="width: 15px; background-color: lightblue;"></td><td>L = 0,137/0,137 W/mK</td></tr> <tr><td style="width: 15px; background-color: cyan;"></td><td>L = 0,105/0,105 W/mK</td></tr> <tr><td style="width: 15px; background-color: darkblue;"></td><td>L = 0,700/0,700 W/mK</td></tr> <tr><td style="width: 15px; background-color: magenta;"></td><td>L = 0,036/0,036 W/mK</td></tr> <tr><td style="width: 15px; background-color: purple;"></td><td>L = 0,045/0,045 W/mK</td></tr> <tr><td style="width: 15px; background-color: teal;"></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 = 1,580/1,580 W/mK		L = 0,210/0,210 W/mK		L = 0,033/0,033 W/mK		L = 1,050/1,050 W/mK		L = 1,010/1,010 W/mK		L = 2,000/2,000 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 = 0,105/0,105 W/mK		L = 0,700/0,700 W/mK		L = 0,036/0,036 W/mK		L = 0,045/0,045 W/mK		L = 0,210/0,210 W/mK
Teplota	Odpor Rs																																														
— <= 0	— <= 0,05																																														
— <= 0	— > 0,05																																														
— > 0	— <= 0,16																																														
— > 0	— 0,17-0,24																																														
— > 0	— >= 0,25																																														
	L = 2,000/2,000 W/mK																																														
	L = 2,000/2,000 W/mK																																														
	L = 1,580/1,580 W/mK																																														
	L = 0,210/0,210 W/mK																																														
	L = 0,033/0,033 W/mK																																														
	L = 1,050/1,050 W/mK																																														
	L = 1,010/1,010 W/mK																																														
	L = 2,000/2,000 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 = 0,105/0,105 W/mK																																														
	L = 0,700/0,700 W/mK																																														
	L = 0,036/0,036 W/mK																																														
	L = 0,045/0,045 W/mK																																														
	L = 0,210/0,210 W/mK																																														
Zobrazení pole teplot	<p>Teplotní pole [C]:</p>  <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tbody> <tr><td style="width: 20px; background-color: purple;"></td><td>-15,0 ... -11,5</td></tr> <tr><td style="width: 20px; background-color: blue-violet;"></td><td>-11,5 ... -8,1</td></tr> <tr><td style="width: 20px; background-color: blue;"></td><td>-8,1 ... -4,7</td></tr> <tr><td style="width: 20px; background-color: cyan;"></td><td>-4,7 ... -1,3</td></tr> <tr><td style="width: 20px; background-color: green;"></td><td>-1,3 ... 2,1</td></tr> <tr><td style="width: 20px; background-color: yellow-green;"></td><td>2,1 ... 5,5</td></tr> <tr><td style="width: 20px; background-color: yellow;"></td><td>5,5 ... 9,0</td></tr> <tr><td style="width: 20px; background-color: orange;"></td><td>9,0 ... 12,4</td></tr> <tr><td style="width: 20px; background-color: red-orange;"></td><td>12,4 ... 15,8</td></tr> <tr><td style="width: 20px; background-color: red;"></td><td>15,8 ... 19,2</td></tr> </tbody> </table>		-15,0 ... -11,5		-11,5 ... -8,1		-8,1 ... -4,7		-4,7 ... -1,3		-1,3 ... 2,1		2,1 ... 5,5		5,5 ... 9,0		9,0 ... 12,4		12,4 ... 15,8		15,8 ... 19,2																										
	-15,0 ... -11,5																																														
	-11,5 ... -8,1																																														
	-8,1 ... -4,7																																														
	-4,7 ... -1,3																																														
	-1,3 ... 2,1																																														
	2,1 ... 5,5																																														
	5,5 ... 9,0																																														
	9,0 ... 12,4																																														
	12,4 ... 15,8																																														
	15,8 ... 19,2																																														

Posouzení hygienického kritéria

Zobrazení průběhu izotermy – riziko vzniku plísní



Zobrazení průběhu izotermy – rosný bod



Nejnižší vnitřní povrchová teplota konstrukce $\theta_{si} = 17,57 \text{ °C}$
Teplotní faktor vnitřního povrchu $f_{Rsi} = 0,931$

Posouzení hygienického kritéria

$\theta_{si} = 17,57 \text{ °C} > \theta_{si,80} + \Delta\theta_{si} = 11,58 \text{ °C}$ – vyhovuje

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