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Termografická skúška podľa STN EN 13187 - zjednodušená.

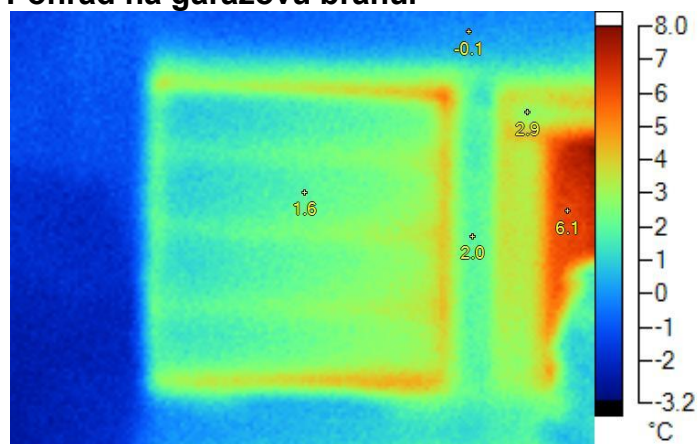
Rodinný dom, Košice



Prepared For:

Teploty zobrazené na termovízných snímkoch nie sú v tomto prípade absolútne. Je nutné analyzovať rozdiely medzi jednotlivými teplotami.

Pohl'ad na garážovú bránu.



rd1.is2

12/31/2009 12:12:15 PM



DSC06041.JPG

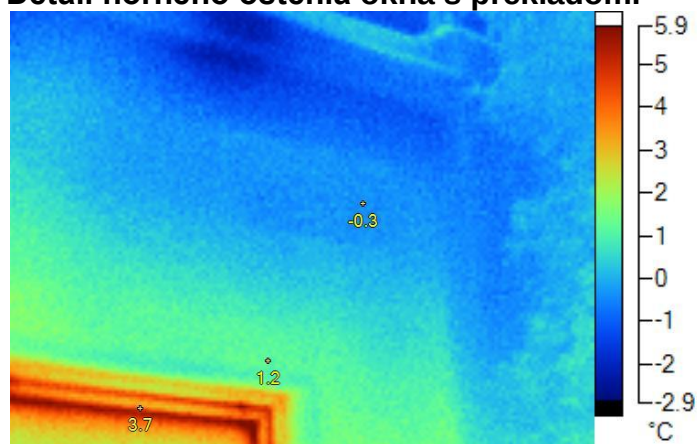
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	1.2°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	1.6°C	0.95	3.0°C
P1	6.1°C	0.95	3.0°C
P2	2.9°C	0.95	3.0°C
P3	-0.1°C	0.95	3.0°C
P4	2.0°C	0.95	3.0°C

Detail horného ostenia okna s prekladom.



rd2.is2

12/31/2009 12:16:34 PM



DSC06044.JPG

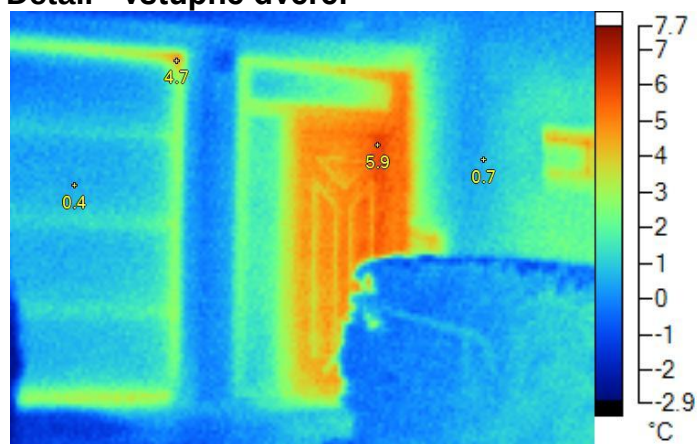
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	0.3°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	1.2°C	0.95	3.0°C
P1	-0.3°C	0.95	3.0°C
P2	3.7°C	0.95	3.0°C

Detail - vstupné dvere.

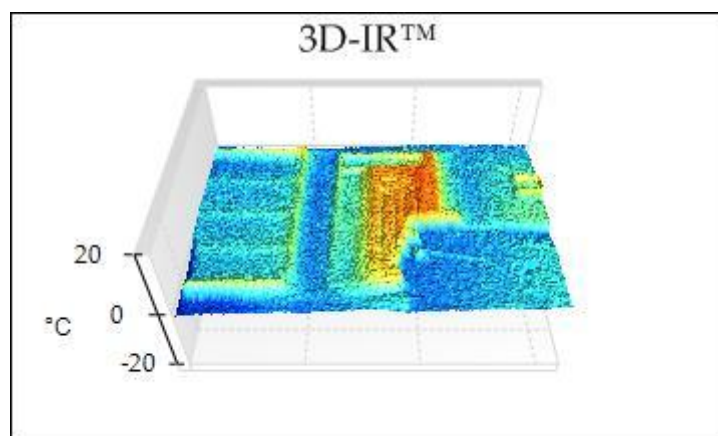


rd3.is2

12/31/2009 12:12:33 PM



DSC06041.JPG



Graph

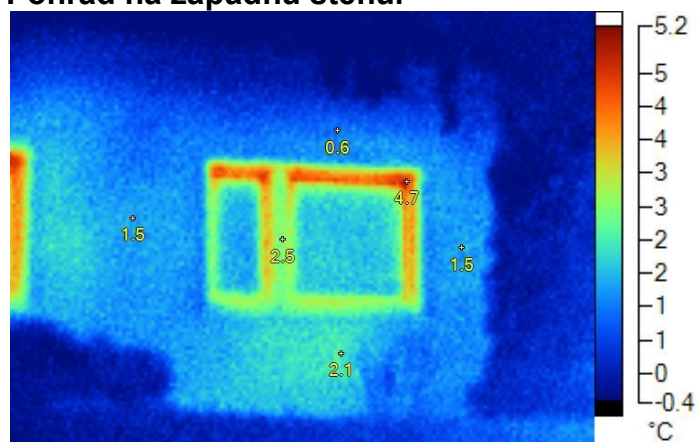
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	1.3°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	0.4°C	0.95	3.0°C
P1	4.7°C	0.95	3.0°C
P2	5.9°C	0.95	3.0°C
P3	0.7°C	0.95	3.0°C

Pohľad na západnú stenu.

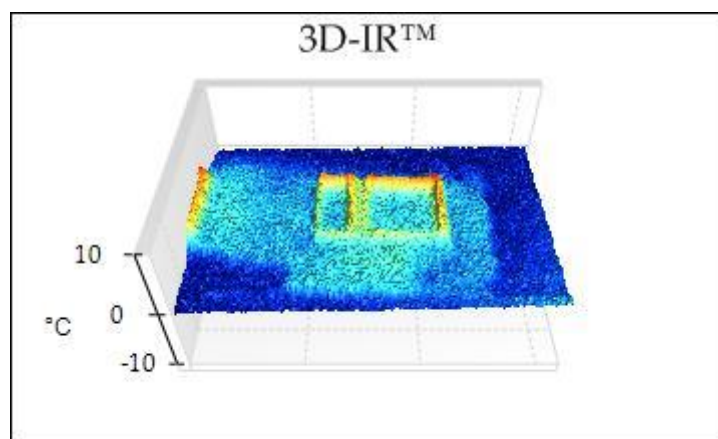


DSC06042.JPG

rd4.is2

12/31/2009 12:14:51 PM

Pod oknom je teplejšie miesto (parapetné murivo)
spôsobené vykurovacím telesom zo strany interiéru.



Graph

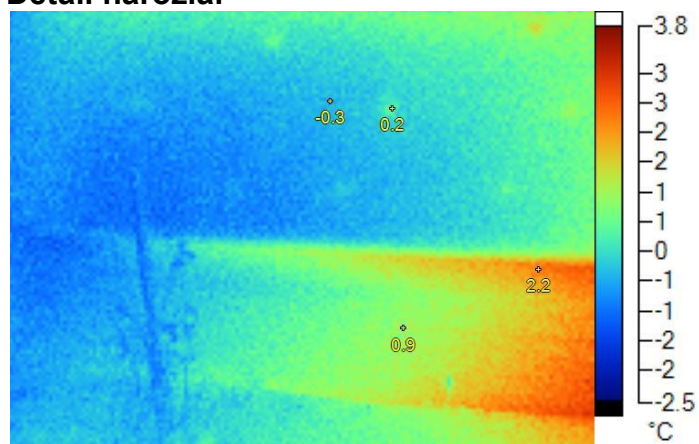
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	0.8°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	1.5°C	0.95	3.0°C
P1	0.6°C	0.95	3.0°C
P2	1.5°C	0.95	3.0°C
P3	2.1°C	0.95	3.0°C
P4	4.7°C	0.95	3.0°C
P5	2.5°C	0.95	3.0°C

Detail nárožia.

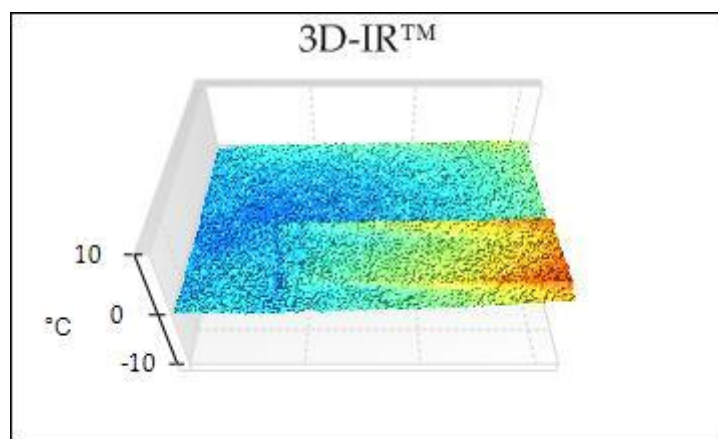


DSC06046.JPG

rd5.is2

12/31/2009 12:18:06 PM

Viditeľné terčíky zateplenia. Soklová časť s vyšším únikom tepla - teplejšie pásmo začína cca. 1,0 m od rohu objektu.



Graph

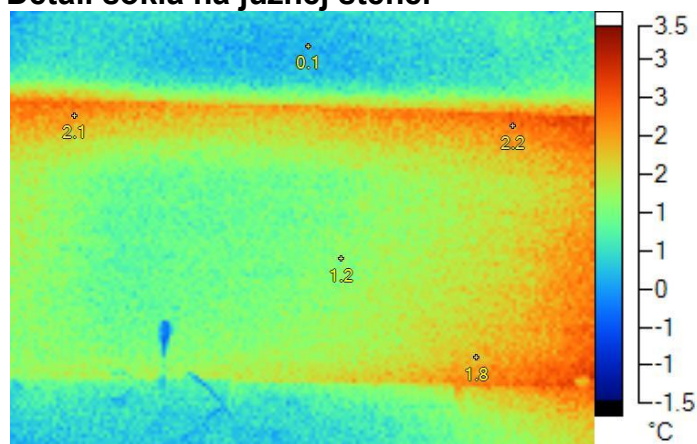
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	0.1°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	-0.3°C	0.95	3.0°C
P1	0.2°C	0.95	3.0°C
P2	2.2°C	0.95	3.0°C
P3	0.9°C	0.95	3.0°C

Detail sokla na južnej stene.

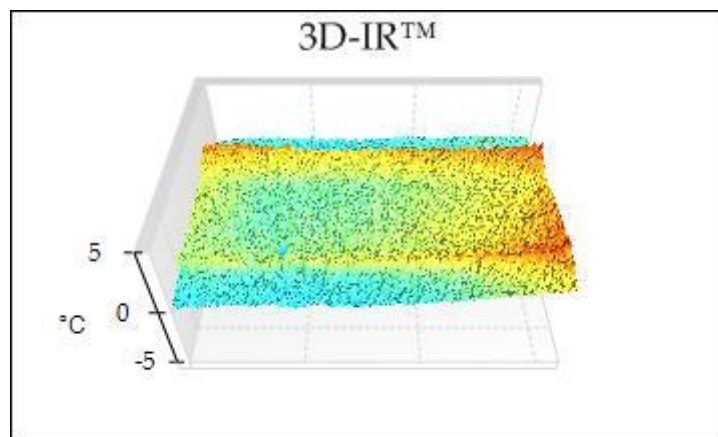


DSC06047.JPG

rd6.is2

12/31/2009 12:19:21 PM

Viditeľne teplejšia soklová časť. Najmä vplyvom hliníkovej lišty pri spodnom ukončení zateplenia.



Graph

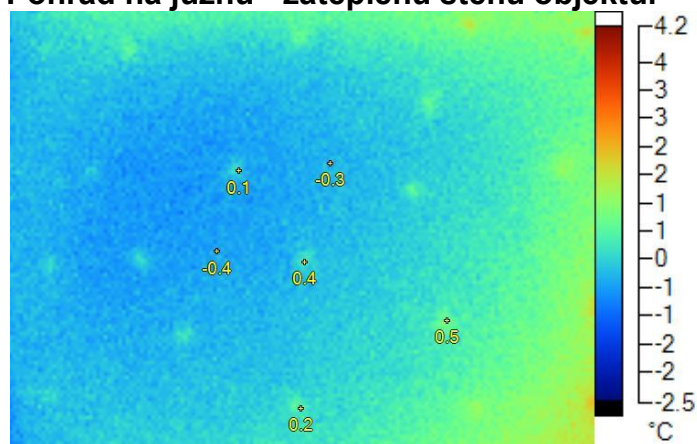
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	1.1°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	2.1°C	0.95	3.0°C
P1	2.2°C	0.95	3.0°C
P2	1.2°C	0.95	3.0°C
P3	1.8°C	0.95	3.0°C
P4	0.1°C	0.95	3.0°C

Pohľad na južnú - zateplenú stenu objektu.



DSC06049.JPG

rd7.is2

12/31/2009 12:18:27 PM

Viditeľné terčíky uchytenia zateplenia, ktoré tvoria tepelné mostíky.

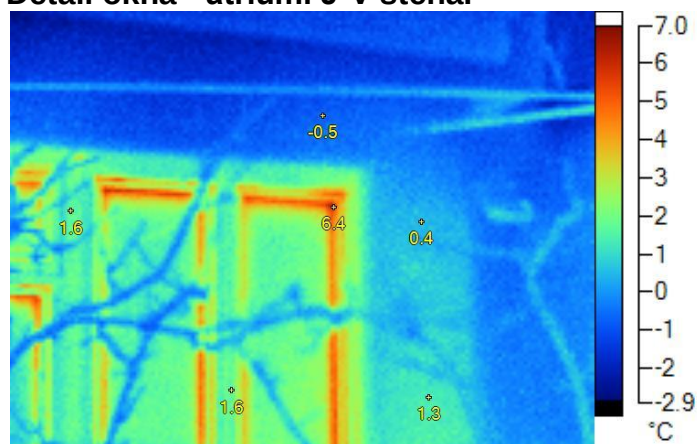
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	0.0°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	0.1°C	0.95	3.0°C
P1	0.4°C	0.95	3.0°C
P2	0.5°C	0.95	3.0°C
P3	-0.3°C	0.95	3.0°C
P4	-0.4°C	0.95	3.0°C
P5	0.2°C	0.95	3.0°C

Detail okna - átrium. J-V stena.



rd8.is2

12/31/2009 12:29:27 PM



DSC06055.JPG

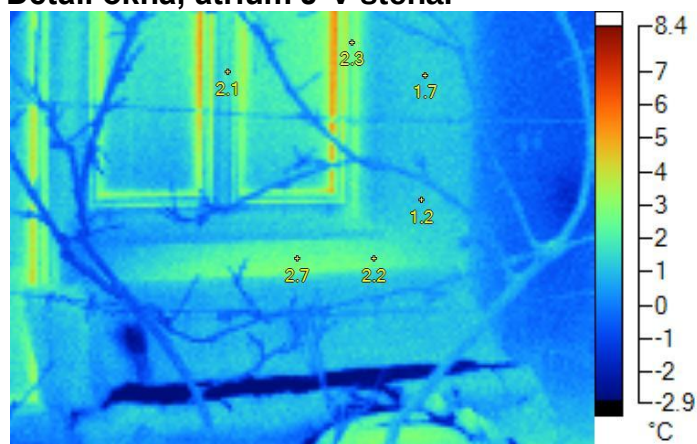
Image Info

Background Temperature	0.0°C
Emissivity	0.95
Average Temperature	0.5°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	-0.5°C	0.95	0.0°C
P1	0.4°C	0.95	0.0°C
P2	1.3°C	0.95	0.0°C
P3	6.4°C	0.95	0.0°C
P4	1.6°C	0.95	0.0°C
P5	1.6°C	0.95	0.0°C

Detail okna, átrium J-V stena.



DSC06055.JPG

rd9.is2

12/31/2009 12:29:38 PM

Parapet je v mieste vykurovacieho telesa teplejší.

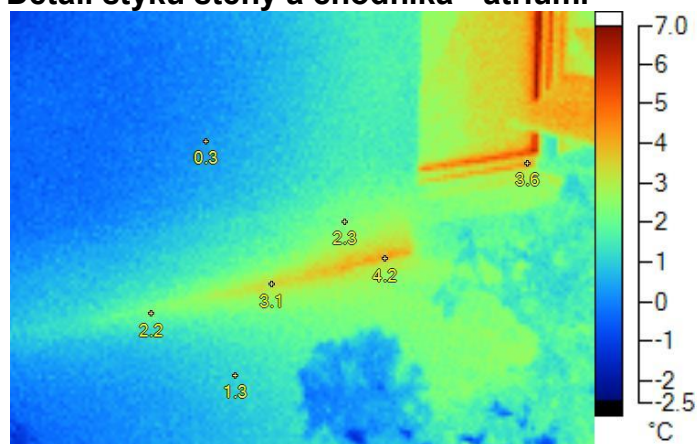
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	0.9°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	1.7°C	0.95	3.0°C
P1	1.2°C	0.95	3.0°C
P2	2.7°C	0.95	3.0°C
P3	2.2°C	0.95	3.0°C
P4	2.1°C	0.95	3.0°C
P5	2.3°C	0.95	3.0°C

Detail styku steny a chodníka - átrium.



DSC06056.JPG

rd10.is2

12/31/2009 12:30:55 PM

V mieste teplovodného kanála v úrovni krbu je zreteľne vyšší únik tepla.

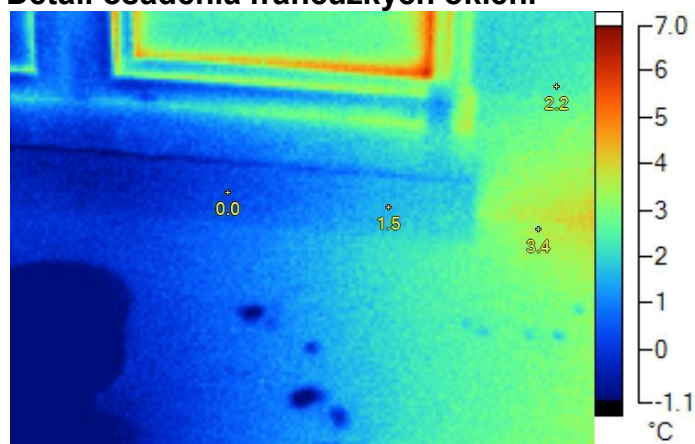
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	1.3°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	4.2°C	0.95	3.0°C
P1	3.1°C	0.95	3.0°C
P2	2.2°C	0.95	3.0°C
P3	2.3°C	0.95	3.0°C
P4	0.3°C	0.95	3.0°C
P5	1.3°C	0.95	3.0°C
P6	3.6°C	0.95	3.0°C

Detail osadenia francúzskych okien.



DSC06057.JPG

rd11.is2

12/31/2009 12:31:31 PM

Zateplená soklová časť je bez viditeľných tepelných mostov.

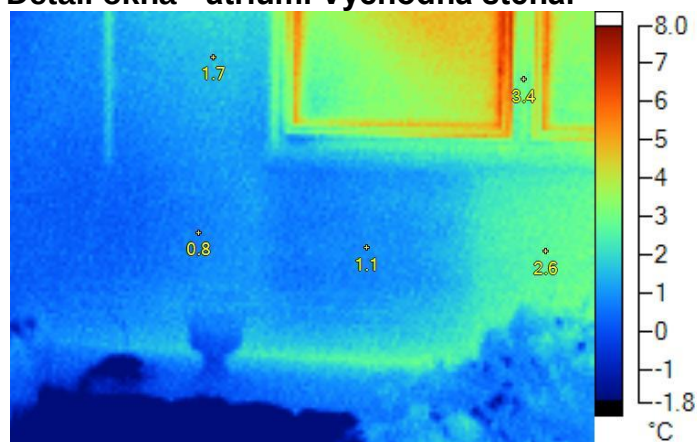
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	1.3°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	0.0°C	0.95	3.0°C
P1	1.5°C	0.95	3.0°C
P2	3.4°C	0.95	3.0°C
P3	2.2°C	0.95	3.0°C

Detail okna - átrium. Východná stena.

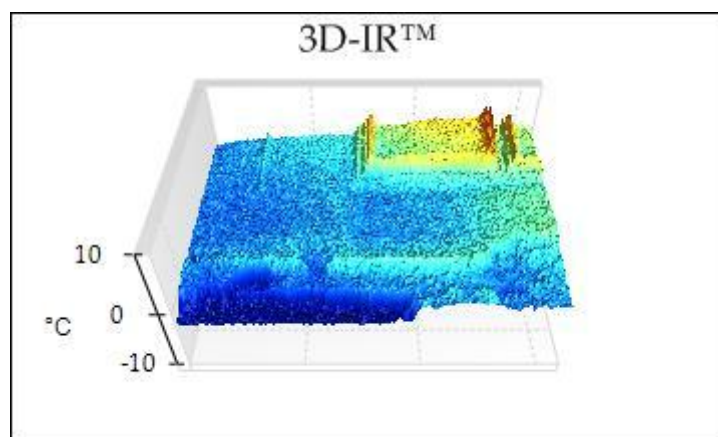


DSC06061.JPG

rd12.is2

12/31/2009 12:32:27 PM

Pod oknom vpravo dole je viditeľné osadenie vykurovacieho telesa zo strany interiéru. Vymedzené teplejšou plochou.



Graph

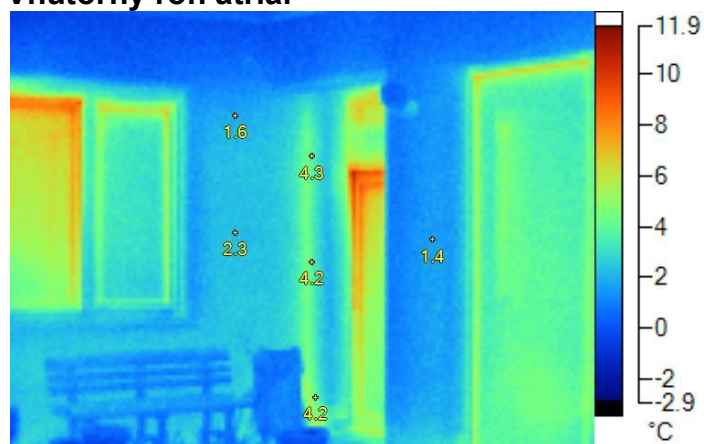
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	1.3°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	1.7°C	0.95	3.0°C
P1	0.8°C	0.95	3.0°C
P2	1.1°C	0.95	3.0°C
P3	2.6°C	0.95	3.0°C
P4	3.4°C	0.95	3.0°C

Vnútorný roh átria.



rd13.is2

12/31/2009 12:33:31 PM



DSC06060.JPG

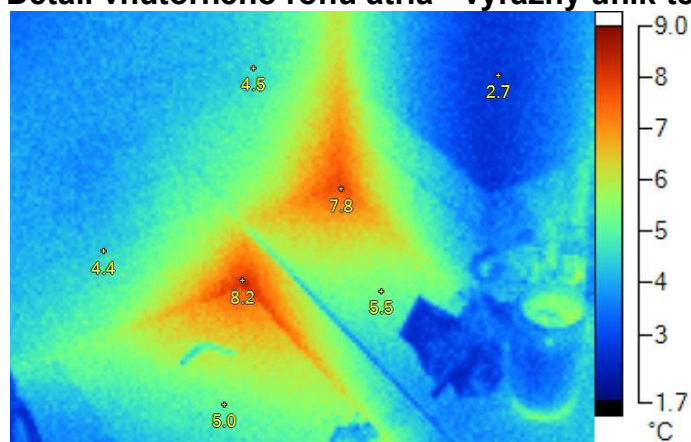
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	2.7°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	4.3°C	0.95	3.0°C
P1	4.2°C	0.95	3.0°C
P2	4.2°C	0.95	3.0°C
P3	2.3°C	0.95	3.0°C
P4	1.4°C	0.95	3.0°C
P6	1.6°C	0.95	3.0°C

Detail vnútorného rohu átria - výrazný únik tepla.

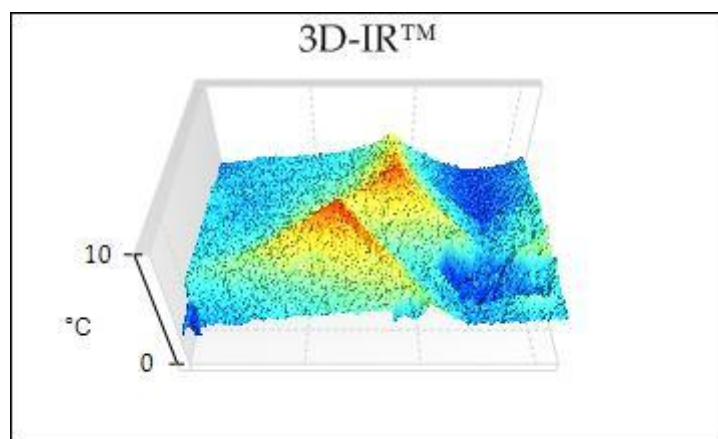


DSC06063.JPG

rd14.is2

12/31/2009 12:36:15 PM

V mieste teplovodného kanála (zo strany interiéru) je styk obvodových stien výrazne prehriaty.



Graph

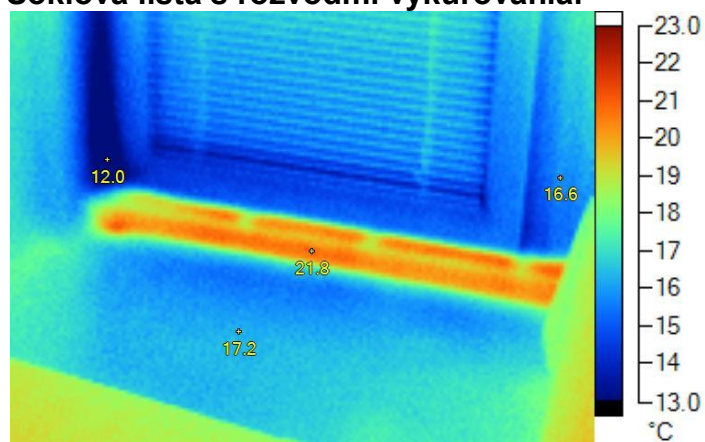
Image Info

Background Temperature	3.0°C
Emissivity	0.95
Average Temperature	4.6°C

Main Image Markers

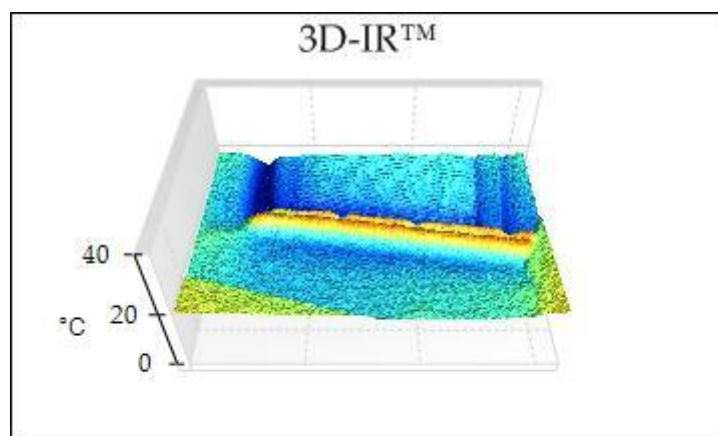
Name	Temperature	Emissivity	Background
P0	2.7°C	0.95	3.0°C
P1	4.5°C	0.95	3.0°C
P2	7.8°C	0.95	3.0°C
P3	8.2°C	0.95	3.0°C
P4	4.4°C	0.95	3.0°C
P5	5.0°C	0.95	3.0°C
P6	5.5°C	0.95	3.0°C

Soklová lišta s rozvodmi vykurovania.



rd15.is2

12/31/2009 12:40:18 PM



Graph



DSC06064.JPG

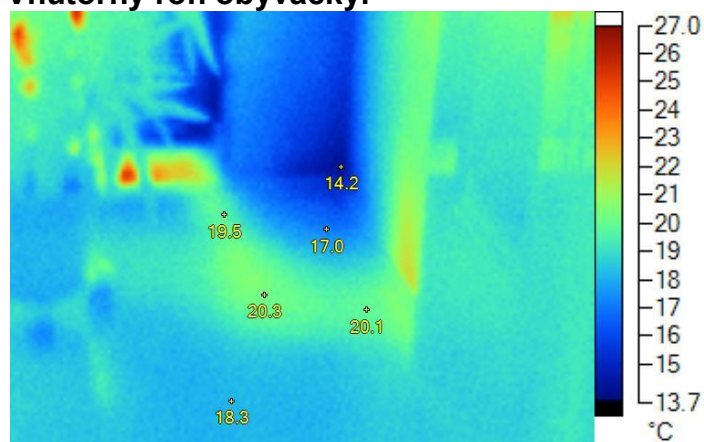
Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	16.6°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	12.0°C	0.95	3.0°C
P1	21.8°C	0.95	3.0°C
P2	17.2°C	0.95	3.0°C
P3	16.6°C	0.95	3.0°C

Vnútorný roh obývačky.



rd16.is2

12/31/2009 12:42:01 PM

V úrovni podlahy je viditeľná kresba teplovodného kanála.



DSC06065.JPG

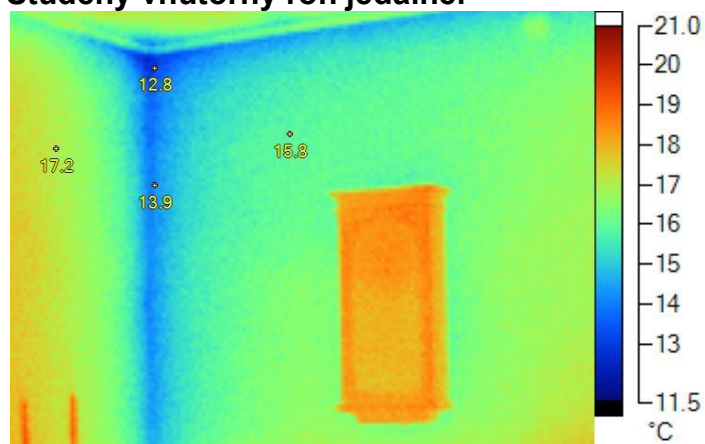
Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	18.7°C

Main Image Markers

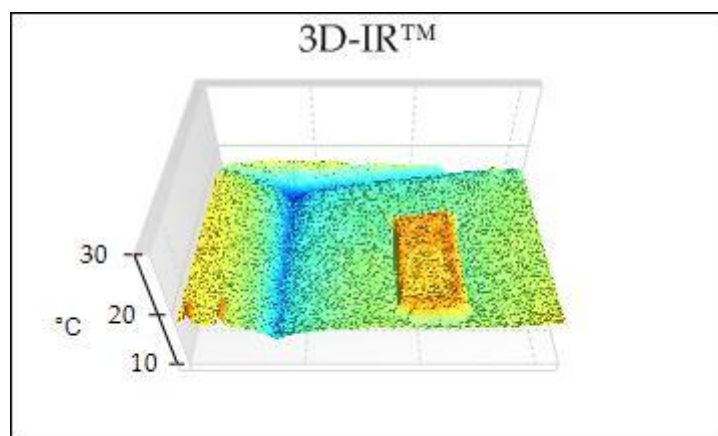
Name	Temperature	Emissivity	Background
P0	14.2°C	0.95	21.0°C
P1	20.3°C	0.95	21.0°C
P2	20.1°C	0.95	21.0°C
P3	19.5°C	0.95	21.0°C
P4	17.0°C	0.95	21.0°C
P5	18.3°C	0.95	21.0°C

Studený vnútorný roh jedálne.

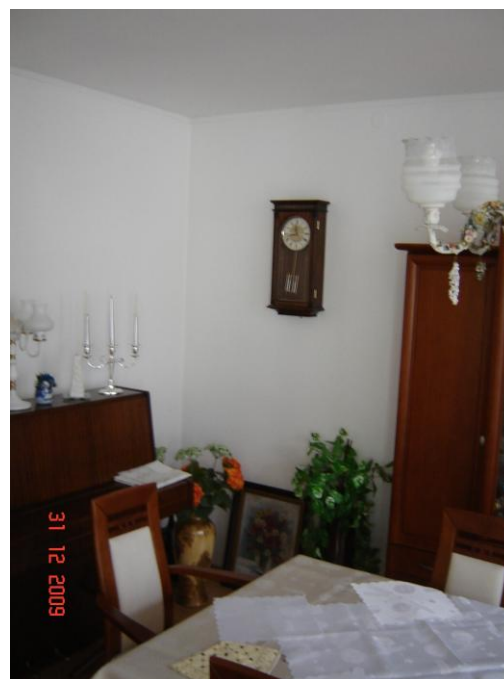


rd17.is2

12/31/2009 12:44:00 PM



Graph



DSC06067.JPG

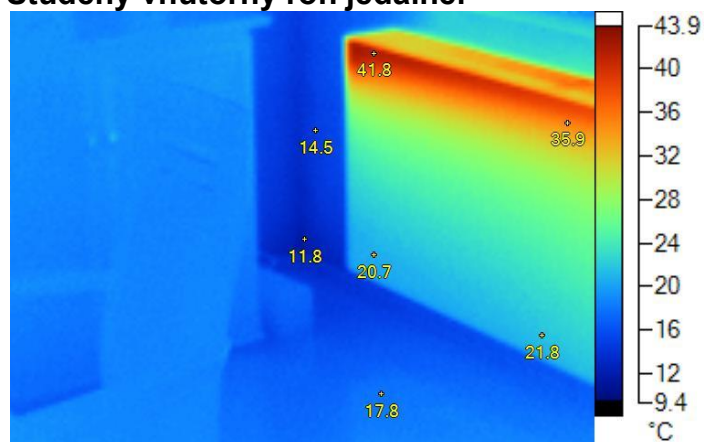
Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	16.4°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	12.8°C	0.95	21.0°C
P1	13.9°C	0.95	21.0°C
P2	15.8°C	0.95	21.0°C
P3	17.2°C	0.95	21.0°C

Studený vnútorný roh jedálne.



rd18.is2

12/31/2009 12:44:18 PM

Spodný vnútorný roh je výrazne chladný so známami kondenzácie vzdušnej vlhkosti.



DSC06068.JPG

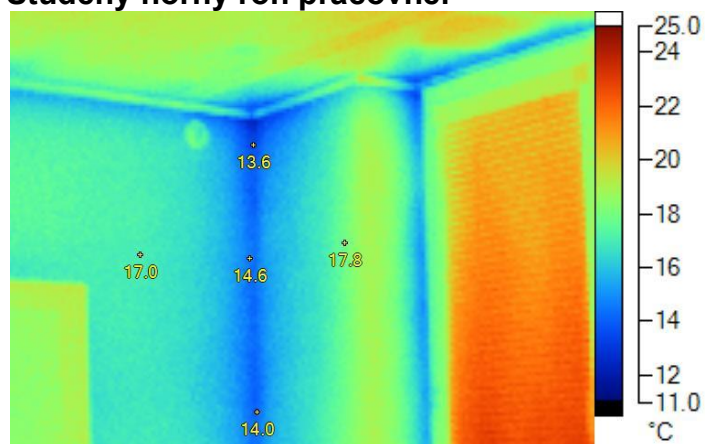
Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	20.4°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	41.8°C	0.95	21.0°C
P1	20.7°C	0.95	21.0°C
P2	35.9°C	0.95	21.0°C
P3	21.8°C	0.95	21.0°C
P4	17.8°C	0.95	21.0°C
P5	14.5°C	0.95	21.0°C
P6	11.8°C	0.95	21.0°C

Studený horný roh pracovne.



rd19.is2

12/31/2009 12:44:31 PM

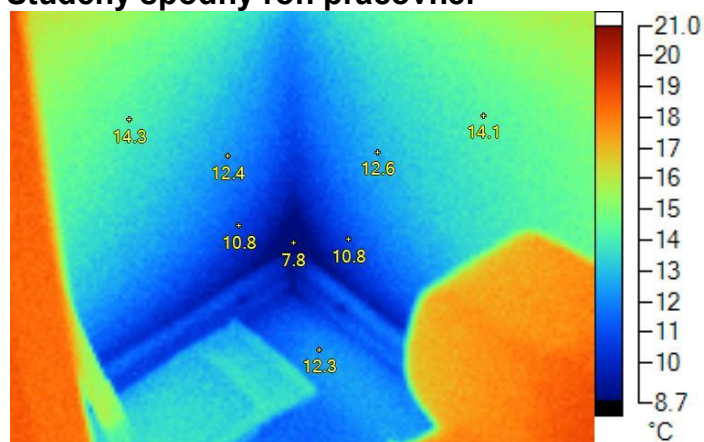
Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	18.1°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	13.6°C	0.95	21.0°C
P1	14.6°C	0.95	21.0°C
P2	14.0°C	0.95	21.0°C
P3	17.8°C	0.95	21.0°C
P4	17.0°C	0.95	21.0°C

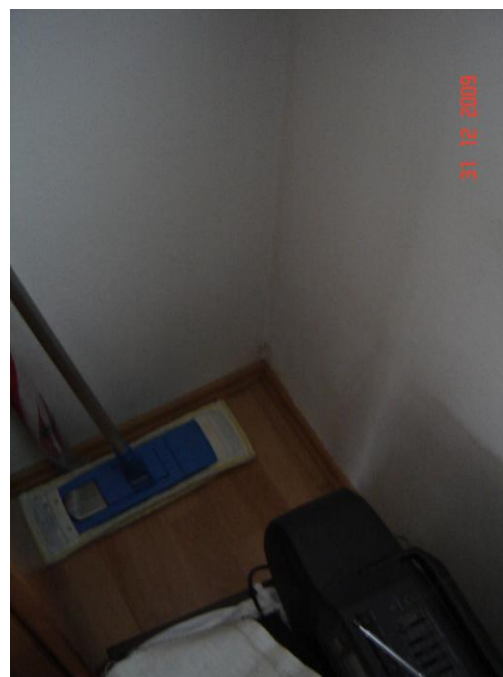
Studený spodný roh pracovne.



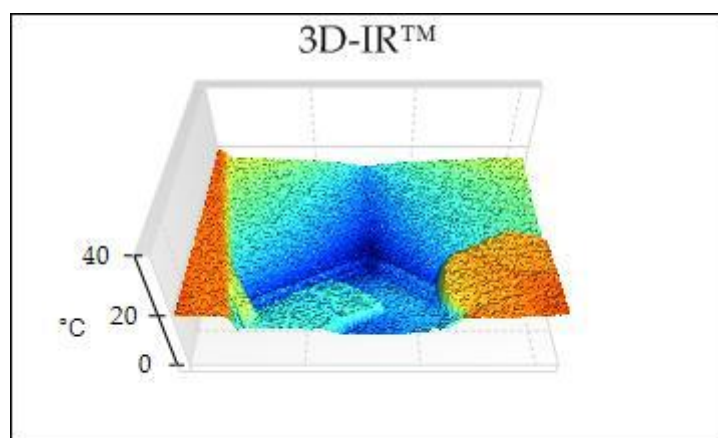
rd20.is2

12/31/2009 12:54:35 PM

Najnižšia povrchová teplota v rámci objektu na obvodovej stene. Miesto vykazuje kondenzáciu vlhkosti a tvorbu plesní.



DSC06071.JPG



Graph

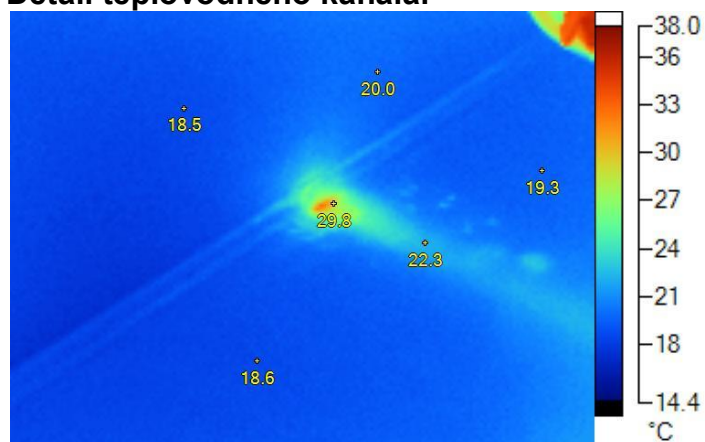
Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	14.0°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	7.8°C	0.95	21.0°C
P1	10.8°C	0.95	21.0°C
P2	10.8°C	0.95	21.0°C
P3	12.4°C	0.95	21.0°C
P4	12.6°C	0.95	21.0°C
P5	14.3°C	0.95	21.0°C
P6	14.1°C	0.95	21.0°C
P7	12.3°C	0.95	21.0°C

Detail teplovodného kanála.



rd21.is2

12/31/2009 12:49:27 PM

Miesto prechodu kanála s rozvodmi vykurovania z izby do kuchyne.

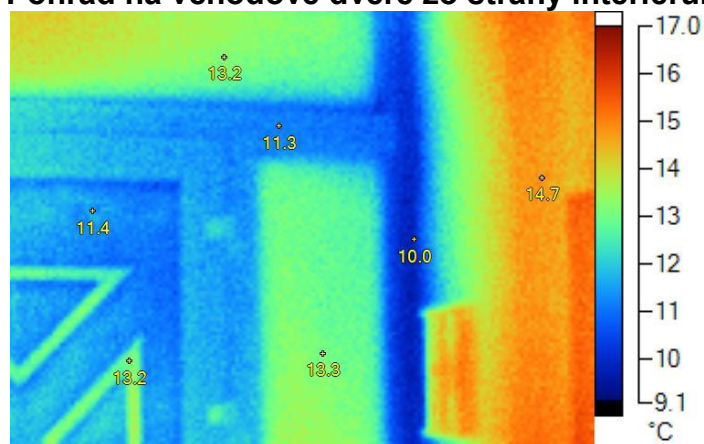
Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	19.4°C

Main Image Markers

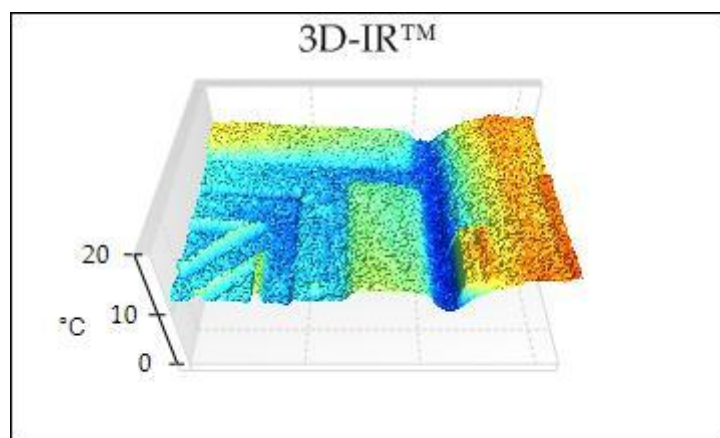
Name	Temperature	Emissivity	Background
P0	18.5°C	0.95	21.0°C
P1	20.0°C	0.95	21.0°C
P2	19.3°C	0.95	21.0°C
P3	18.6°C	0.95	21.0°C
P4	22.3°C	0.95	21.0°C
P5	29.8°C	0.95	21.0°C

Pohľad na vchodové dvere zo strany interiéru.



rd22.is2

12/31/2009 12:50:05 PM



Graph

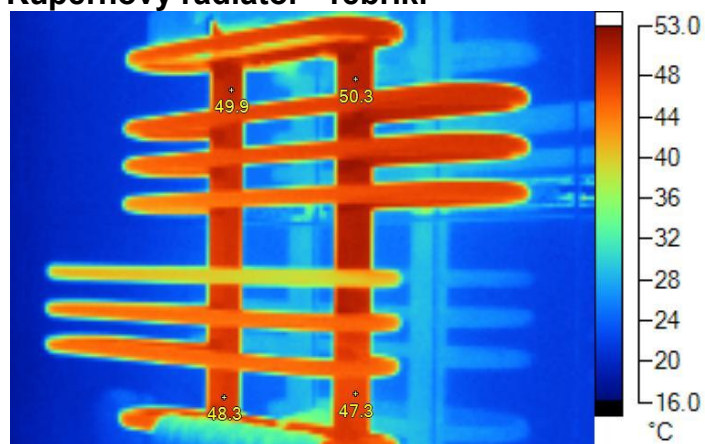
Image Info

Background Temperature	18.0°C
Emissivity	0.95
Average Temperature	12.6°C

Main Image Markers

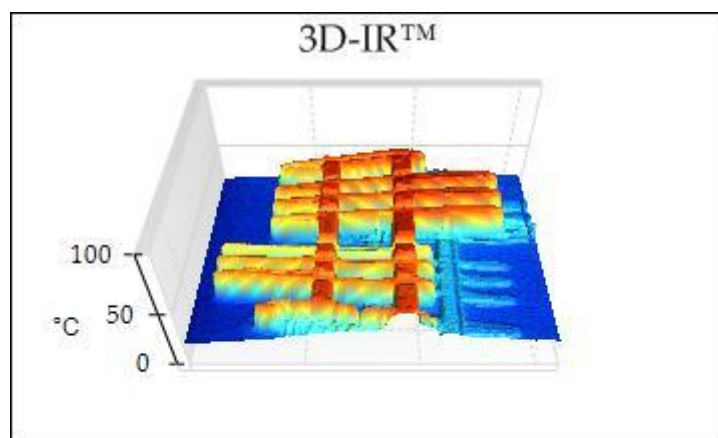
Name	Temperature	Emissivity	Background
P0	11.3°C	0.95	18.0°C
P1	13.2°C	0.95	18.0°C
P2	10.0°C	0.95	18.0°C
P3	13.3°C	0.95	18.0°C
P4	11.4°C	0.95	18.0°C
P5	13.2°C	0.95	18.0°C
P6	14.7°C	0.95	18.0°C

Kúpeľňový radiator - rebrík.



rd23.is2

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Graph

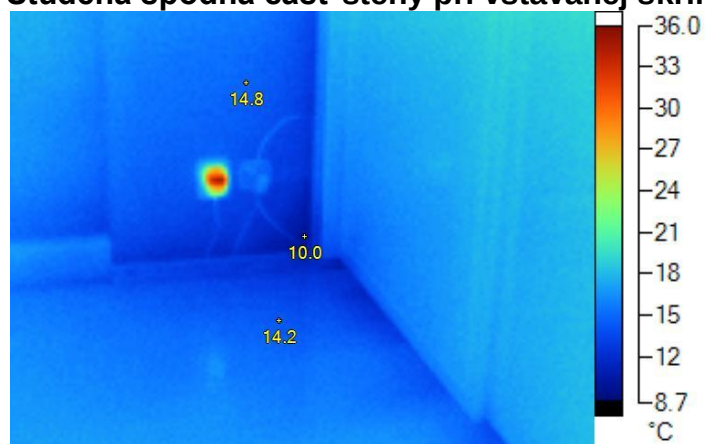
Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	30.8°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	50.3°C	0.95	21.0°C
P1	47.3°C	0.95	21.0°C
P2	48.3°C	0.95	21.0°C
P3	49.9°C	0.95	21.0°C

Studená spodná časť steny pri vstavanej skrini - spálňa.



rd24.is2

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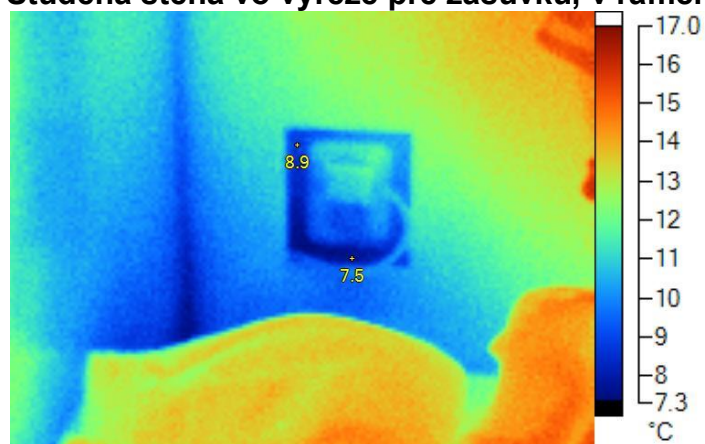
Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	16.0°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	10.0°C	0.95	21.0°C
P1	14.2°C	0.95	21.0°C
P2	14.8°C	0.95	21.0°C

Studená stena vo výreze pre zásuvku, v rámci vstavanej skrine.



rd25.is2

12/31/2009 12:56:59 PM

Známky kondenzácie a tvorba plesní.

Image Info

Background Temperature	21.0°C
Emissivity	0.95
Average Temperature	11.8°C

Main Image Markers

Name	Temperature	Emissivity	Background
P0	8.9°C	0.95	21.0°C
P1	7.5°C	0.95	21.0°C