

Raport tehnic termografic

**Date Client**

Nume	
Adresa	
CNP/CUI	

Date societate

Denumire	Infrared Technology Services S.R.L.
Adresa	Timisoara , Calaea Torontalului nr 15
CUI	46067645

Document

ModifiedDate	1/31/2024 8:27:41 PM
ModifiedDateLocal	1/31/2024 10:27:41 PM
CreationDate	1/31/2024 8:26:13 PM
CreationDateLocal	1/31/2024 10:26:13 PM
DefaultLocation	52.17280516721329, 20.998936711705497
ReportName	RTG

Conditii de mediu

Temp. Ref. Ext.	0°C
Temp. Ref. Ext. expus	6°C
Temp. Ref. Int.	23°C
Temp. Aer	2°C
Viteza Vant	<7km/h
Umiditate	RH 55%
Presiune Atm.	1067

No map to display



Sumar

Sectiunea 1.	Descriere, concluzii si rezultate finale
Sectiunea 2.	Fundatie
Sectiunea 3.	Anvelopa
Sectiunea 4.	Usi ferestre
Sectiunea 5.	Pod

Sectiunea 1.

Descriere...

Nota

Atunci când se utilizează termografia pentru a măsura temperaturile obiectelor, este important să se înțeleagă că aceste temperaturi pot diferi de cele reale din cauza mai multor factori. Unul dintre cei mai semnificativi factori este emisivitatea materialului sau a suprafeței examinate. Emisivitatea diferită a materialelor influențează modul în care acestea emit căldură și, prin urmare, modul în care sunt detectate

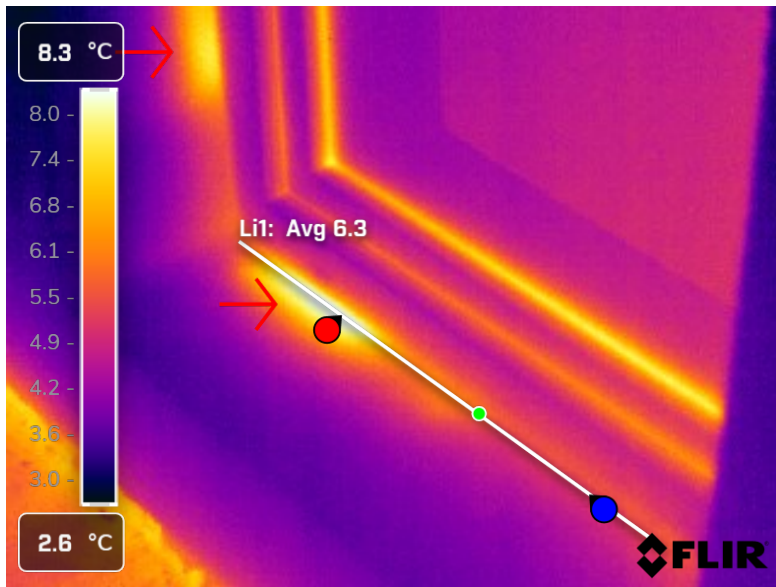
de camerele termografice. Pe lângă emisivitate, alți factori cum ar fi distanța până la obiect, umiditatea atmosferică și unghiul de observare

pot afecta de asemenea acuratețea măsurărilor termografice.

În cadrul analizelor calitative, unde nu este necesară o precizie extremă a temperaturilor, se utilizează adesea o valoare standardizată a emisivității, cum ar fi 0.95, pentru a simplifica procesul. Aceasta înseamnă că, în timpul evaluării, se presupune că toate materialele au aproximativ aceeași emisivitate, ceea ce poate fi suficient pentru identificarea problemelor generale sau a tendințelor, dar nu pentru măsurători exacte.

File name	Created	Maximum temp.	Minimum temp.	Page number
FLIR1349.jpg	1/12/2023 8:04:28 AM	8.6 °C	2.5 °C	5
FLIR1352.jpg	1/12/2023 8:07:23 AM	7.6 °C	3.3 °C	6
FLIR1451.jpg	1/21/2023 8:33:52 AM	21.4 °C	11.9 °C	7
FLIR1452.jpg	1/21/2023 8:34:38 AM	19.9 °C	11.3 °C	8
FLIR1620.jpg	1/27/2023 10:12:45 AM	21.6 °C	8.8 °C	9
FLIR1621.jpg	1/27/2023 10:14:36 AM	21.8 °C	7.2 °C	10
FLIR1634.jpg	1/27/2023 11:47:38 AM	22.8 °C	8.6 °C	11
FLIR1758.jpg	2/7/2023 7:04:07 PM	21.4 °C	1.3 °C	12
FLIR1759.jpg	2/7/2023 7:04:56 PM	19.3 °C	-0.9 °C	13
FLIR1760.jpg	2/7/2023 7:05:37 PM	18.7 °C	-0.3 °C	14
FLIR1765.jpg	2/7/2023 7:11:33 PM	21.8 °C	3.7 °C	15
FLIR2009.jpg	2/15/2023 7:58:58 AM	24.2 °C	17.6 °C	16
FLIR2030.jpg	2/15/2023 8:22:13 AM	28.7 °C	20.1 °C	17
FLIR2074.jpg	2/17/2023 7:41:19 AM	4.0 °C	-5.0 °C	18
FLIR2083.jpg	2/17/2023 7:46:37 AM	5.7 °C	-4.9 °C	19
FLIR2102.jpg	2/17/2023 7:54:49 AM	7.5 °C	-4.4 °C	20
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FLIR2120.jpg	2/17/2023 8:21:34 AM	20.7 °C	2.3 °C	22
FLIR2122.jpg	2/17/2023 8:22:06 AM	15.8 °C	3.6 °C	23
FLIR2127.jpg	2/17/2023 8:25:44 AM	22.3 °C	5.1 °C	24

Sectiunea 2.



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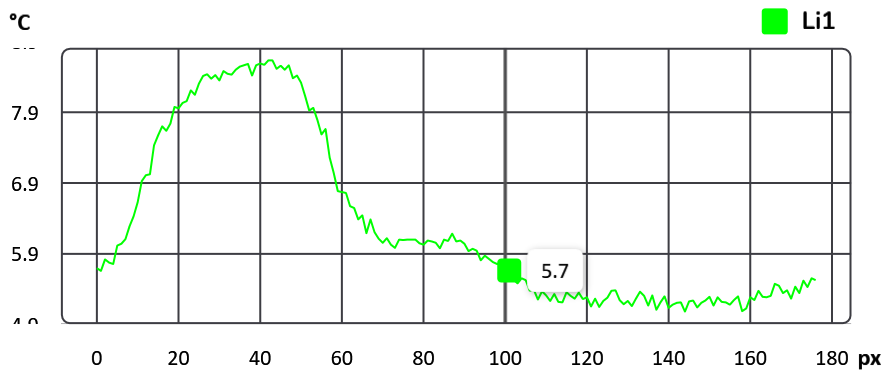
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Page number	5
Thermogram index	

Parameters

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Reflected temp.	0.0 °C
Atmospheric temp.	6.0 °C
Relative humidity	70.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
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Range min.	-20.0 °C
Field of view	25.00



Measurements

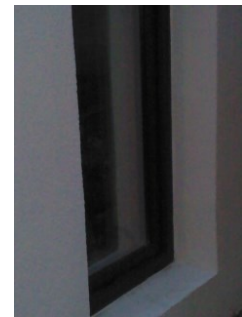
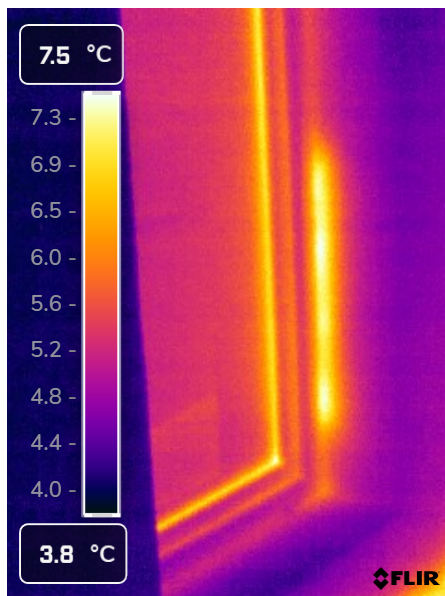
Li1	
Max	8.6 °C
Avg	6.3 °C
Min	5.0 °C

Alarms

Isotherms

Note

Note Defect de montaj. Exfiltratii pe langa tocul ferestrei.



File information

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Thermogram index	

Parameters

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Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric temp.	6.0 °C
Relative humidity	70.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

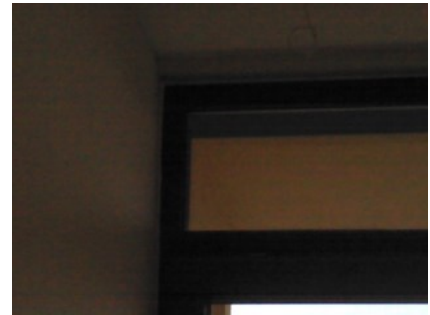
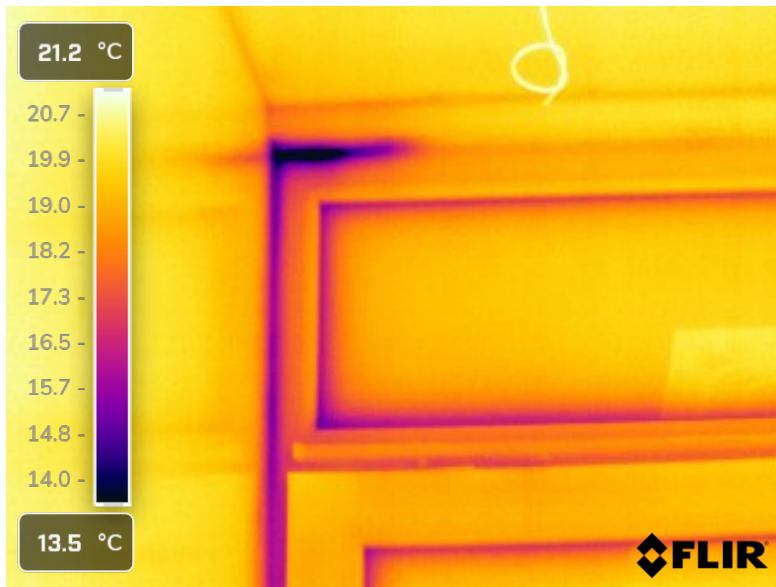
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Alarms

Isotherms

Note

Note	Defect de montaj. Exfiltratii pe langa tocul ferestrei.
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Height	240
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Maximum temp.	21.4 °C
Page number	7
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	15.0 °C
Atmospheric temp.	17.0 °C
Relative humidity	42.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

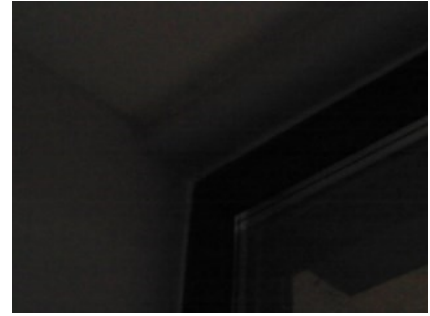
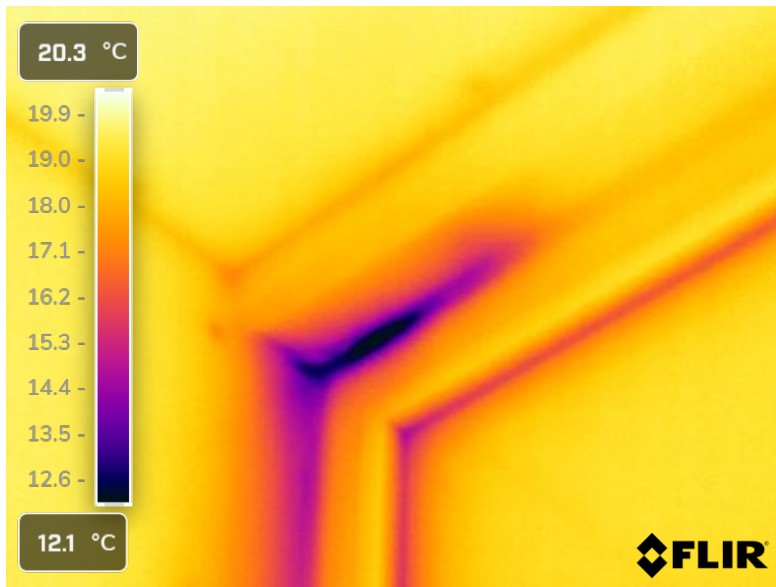
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Alarms

Isotherms

Note

Note



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Maximum temp.	19.9 °C
Page number	8
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	15.0 °C
Atmospheric temp.	17.0 °C
Relative humidity	42.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

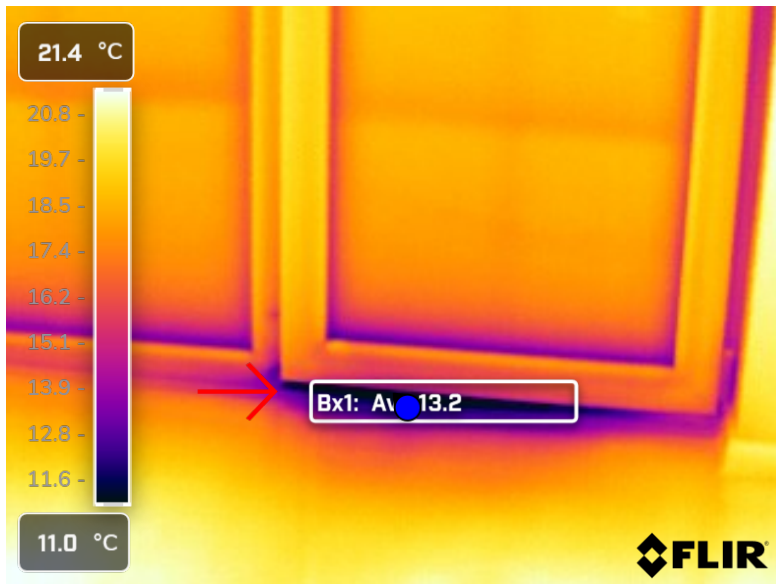
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Alarms

Isotherms

Note

Note



File information

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Maximum temp.	21.6 °C
Page number	9
Thermogram index	

Parameters

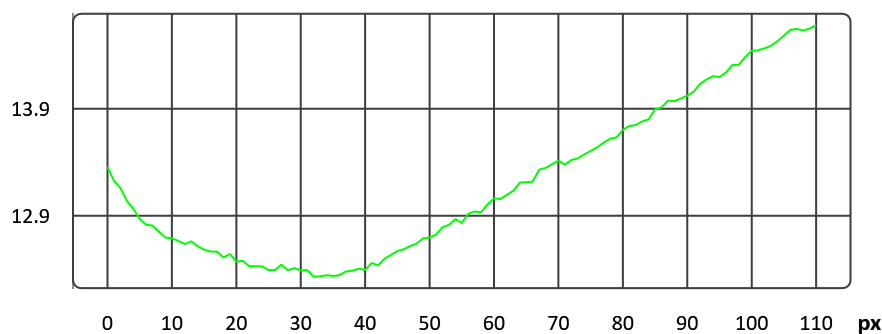
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Atmospheric temp.	20.0 °C
Relative humidity	42.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

°C

■ Bx1



Measurements

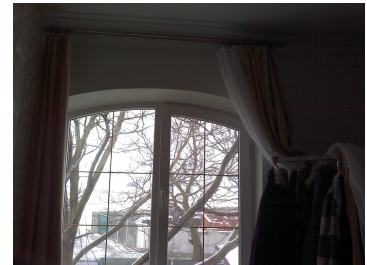
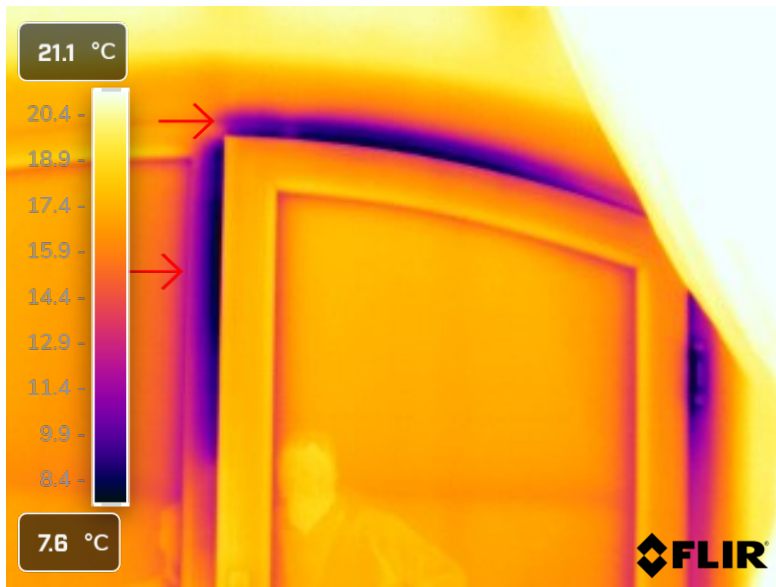
Bx1	
Min	8.8 °C

Alarms

Isotherms

Note

Note Garnitura defecta.



File information

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Maximum temp.	21.8 °C
Page number	10
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	17.0 °C
Atmospheric temp.	20.0 °C
Relative humidity	42.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

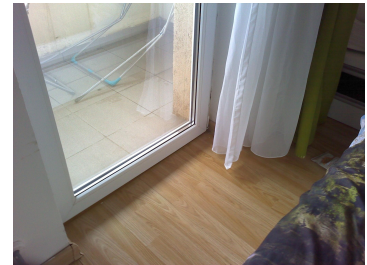
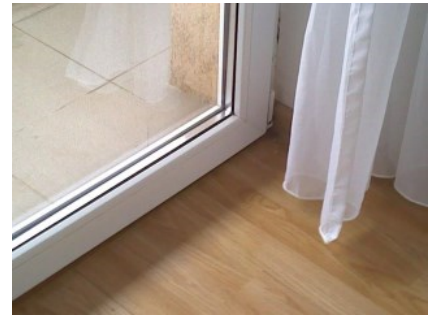
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Alarms

Isotherms

Note

Note Garnitura defecta.



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Maximum temp.	22.8 °C
Page number	11
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	11.0 °C
Atmospheric temp.	11.0 °C
Relative humidity	50.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
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Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

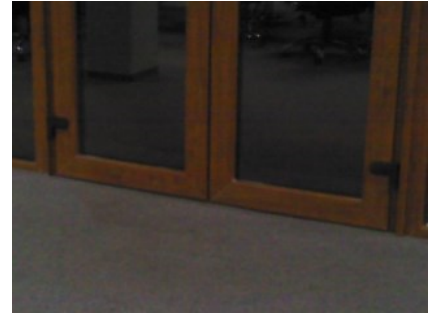
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Alarms

Isotherms

Note

Note



File information

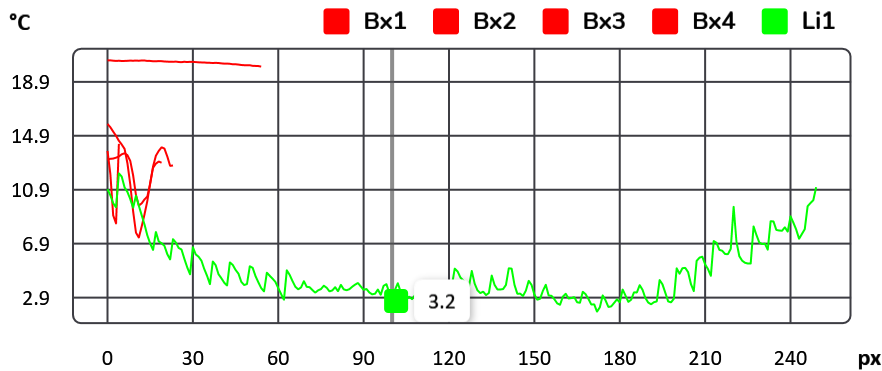
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Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	15.0 °C
Atmospheric temp.	21.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00



Measurements

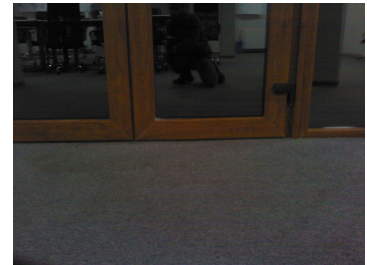
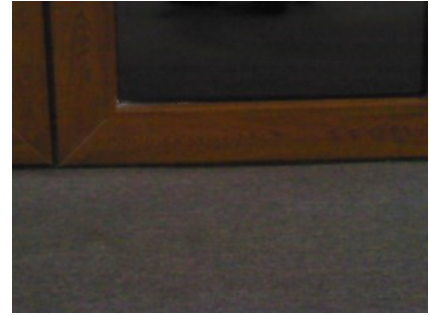
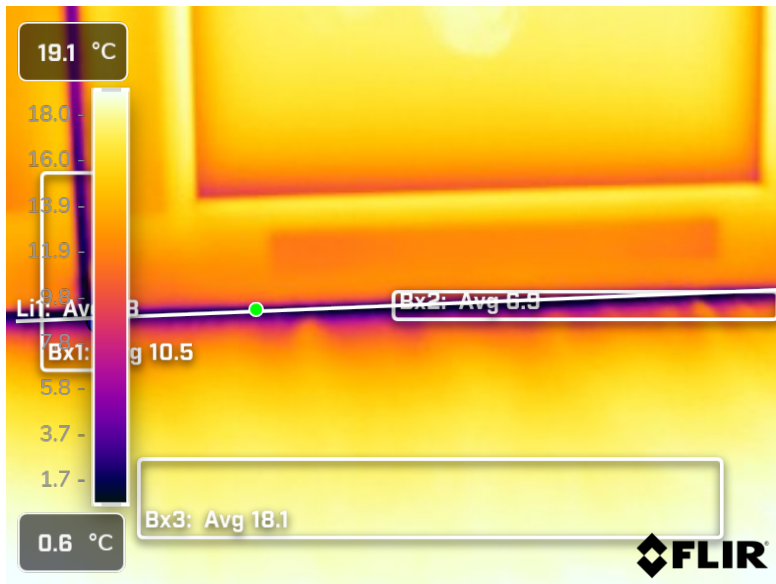
Bx1	
Min	4.1 °C
Bx2	
Min	4.6 °C
Bx3	
Avg	20.3 °C
Bx4	
Min	6.5 °C
Li1	

Alarms

Isotherms

Note

Note



File information

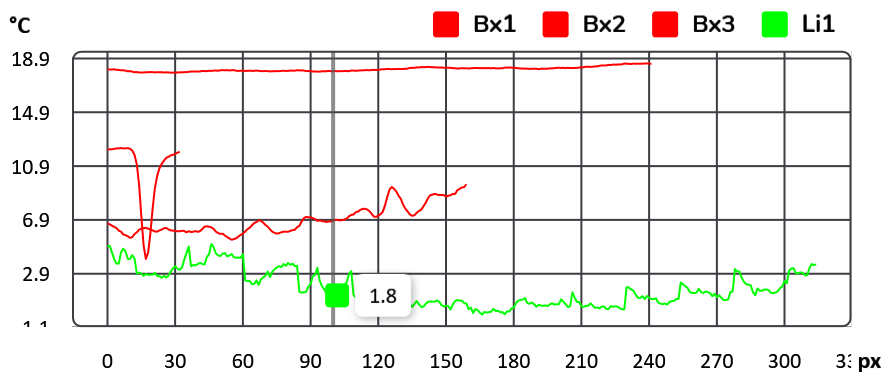
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Maximum temp.	19.3 °C
Page number	13
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	15.0 °C
Atmospheric temp.	19.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00



Measurements

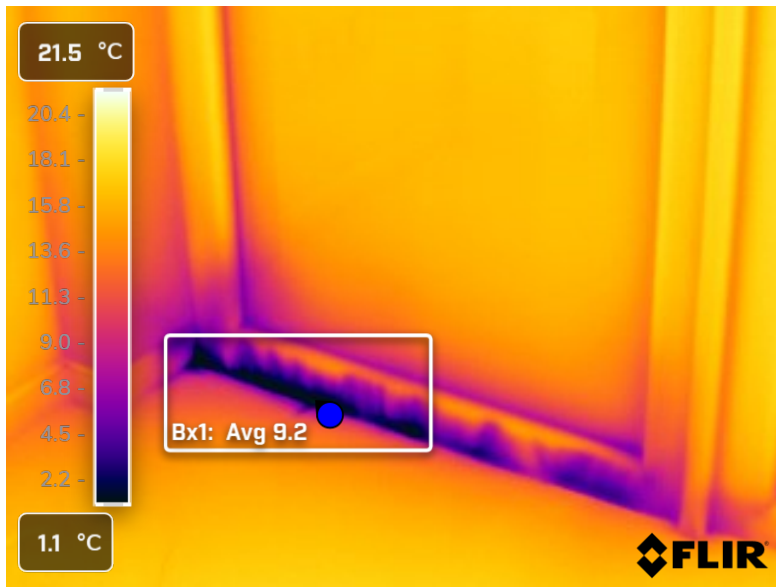
Bx1	
Min	-0.9 °C
Bx2	
Avg	6.9 °C
Bx3	
Avg	18.1 °C
Li1	
Avg	1.8 °C
Min	-0.2 °C

Alarms

Isotherms

Note

Note



File information

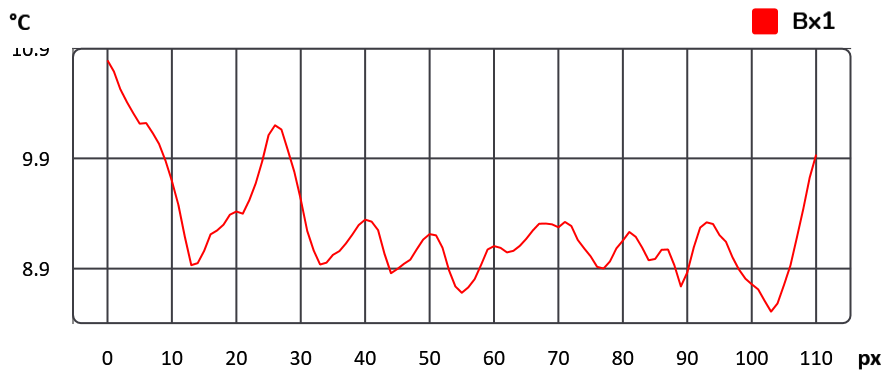
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Page number	14
Thermogram index	

Parameters

Emissivity	0.95
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Atmospheric temp.	19.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
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Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00



Measurements

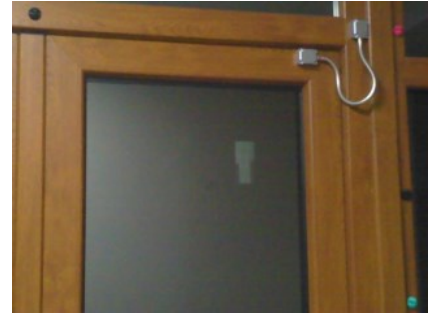
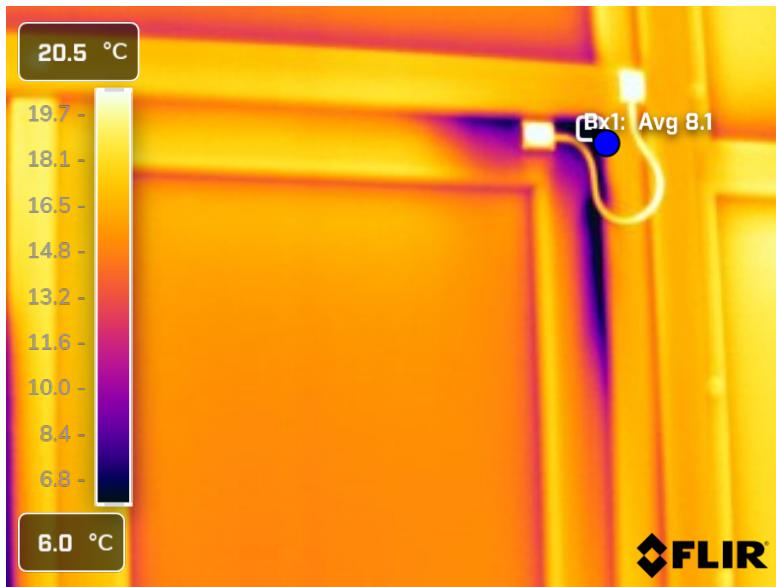
Bx1	
Min	-0.3 °C

Alarms

Isotherms

Note

Note



File information

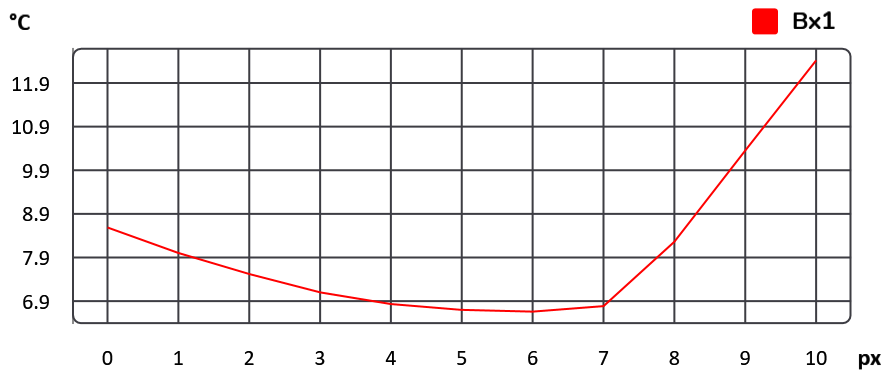
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Maximum temp.	21.8 °C
Page number	15
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	15.0 °C
Atmospheric temp.	19.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00



Measurements

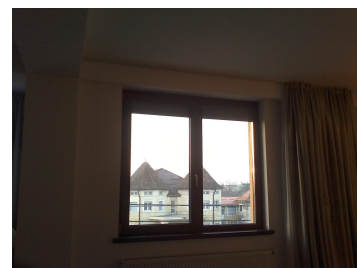
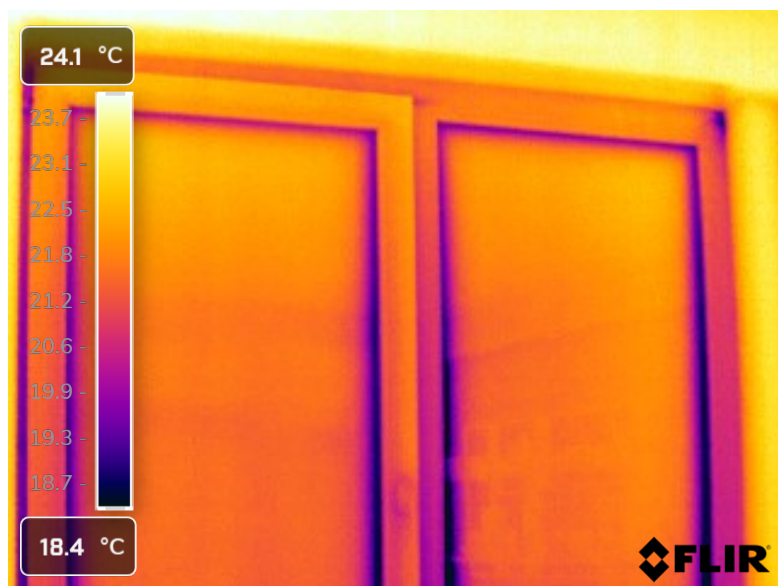
Bx1	
Avg	8.1 °C
Min	3.9 °C

Alarms

Isotherms

Note

Note



File information

Created	2/15/2023 7:58:58 AM
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Height	240
Minimum temp.	17.6 °C
Maximum temp.	24.2 °C
Page number	16
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	22.0 °C
Relative humidity	69.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

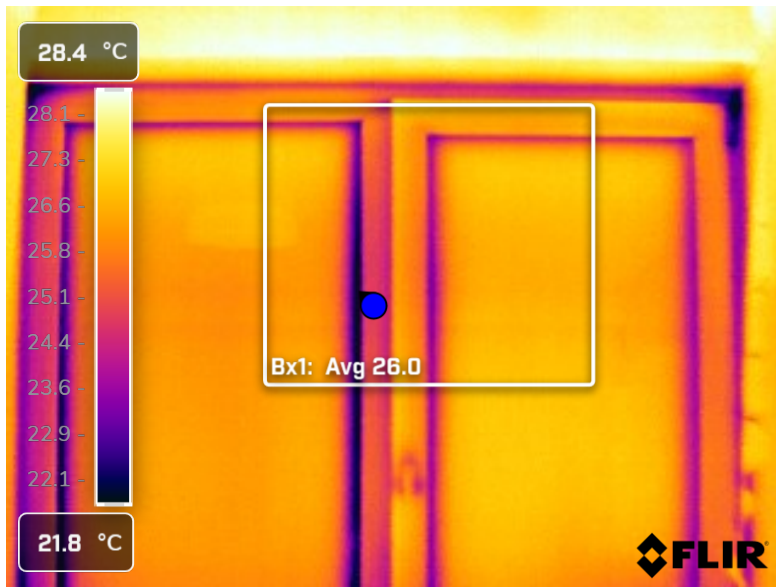
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Alarms

Isotherms

Note

Note



File information

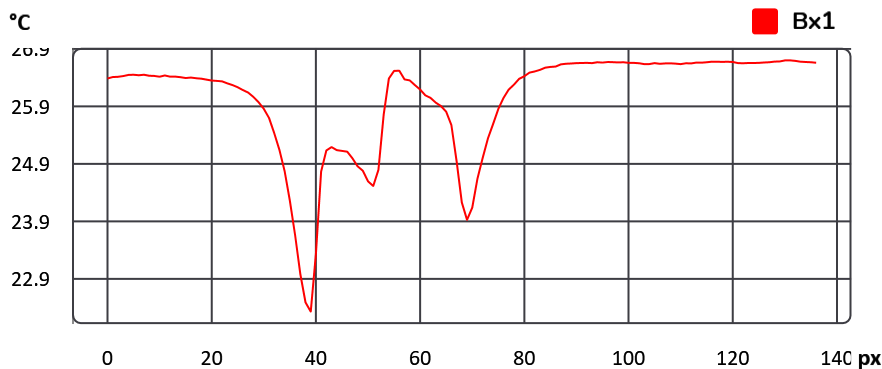
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Page number	17
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	22.0 °C
Relative humidity	69.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00



Measurements

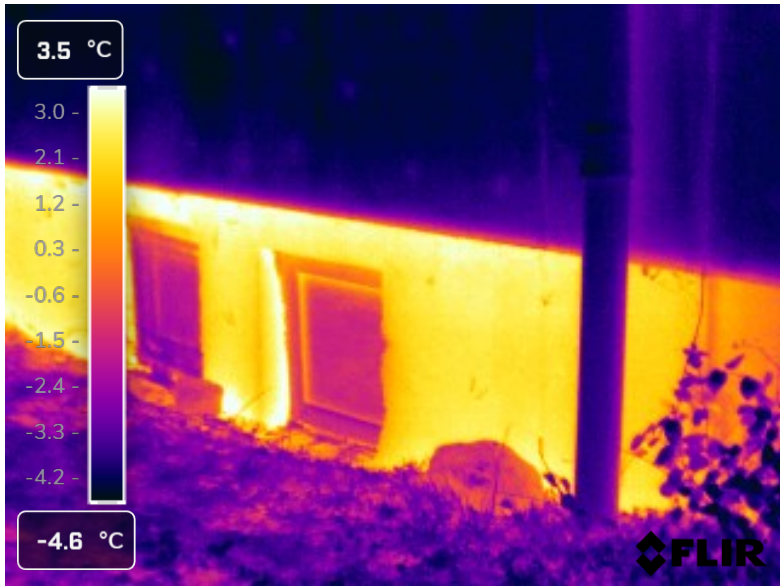
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Alarms

Isotherms

Note

Note



File information

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Maximum temp.	4.0 °C
Page number	18
Thermogram index	

Parameters

Emissivity	0.95
Distance	5.00 m
Reflected temp.	0.0 °C
Atmospheric temp.	-1.0 °C
Relative humidity	75.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

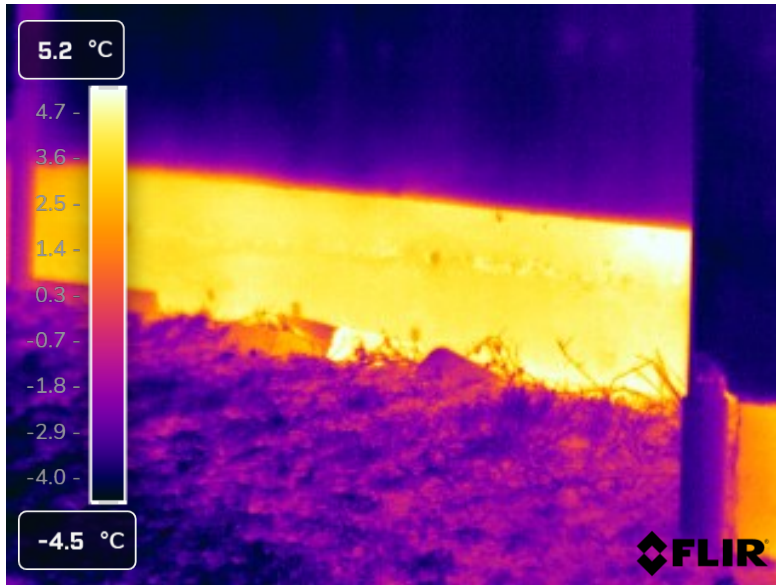
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Alarms

Isotherms

Note

Note



File information

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Height	240
Minimum temp.	-4.9 °C
Maximum temp.	5.7 °C
Page number	19
Thermogram index	

Parameters

Emissivity	0.95
Distance	5.00 m
Reflected temp.	0.0 °C
Atmospheric temp.	-1.0 °C
Relative humidity	75.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

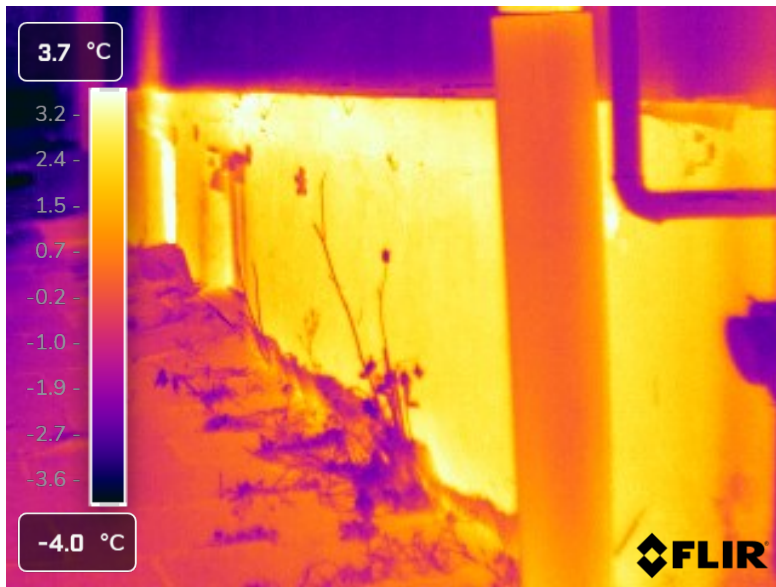
No plot to display

Alarms

Isotherms

Note

Note



File information

Created	2/17/2023 7:54:49 AM
File name	FLIR2102.jpg
File size	979 KB
Width	320
Height	240
Minimum temp.	-4.4 °C
Maximum temp.	7.5 °C
Page number	20
Thermogram index	

Parameters

Emissivity	0.95
Distance	5.00 m
Reflected temp.	0.0 °C
Atmospheric temp.	-1.0 °C
Relative humidity	75.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

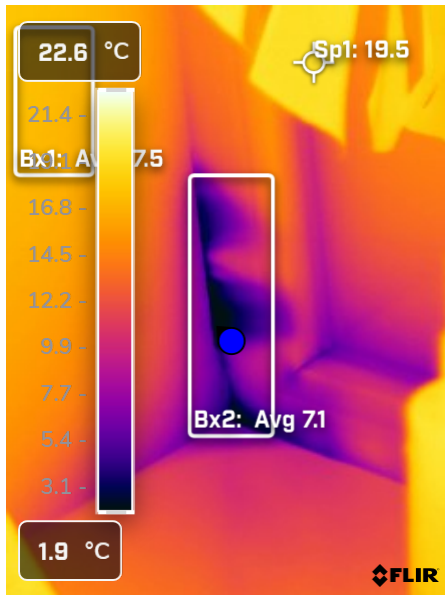
No plot to display

Alarms

Isotherms

Note

Note



File information

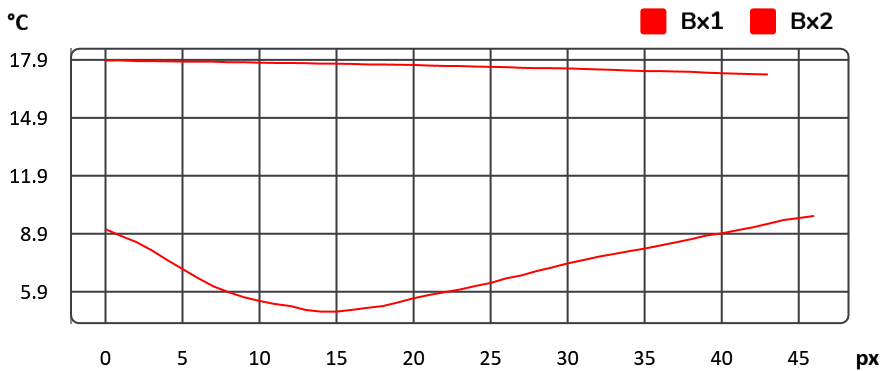
Created	2/17/2023 8:19:48 AM
File name	FLIR2118.jpg
File size	846 KB
Width	240
Height	320
Minimum temp.	0.5 °C
Maximum temp.	20.1 °C
Page number	21
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	15.0 °C
Atmospheric temp.	20.0 °C
Relative humidity	38.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00



Measurements

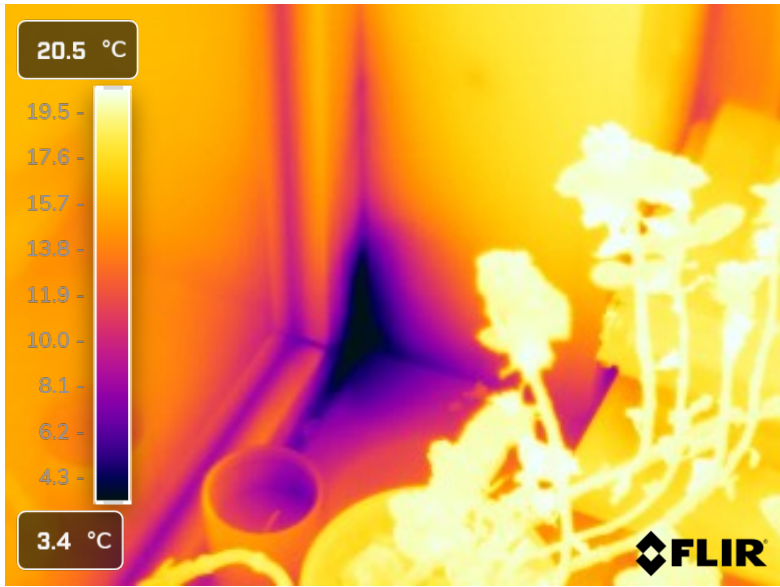
Bx1	
Avg	17.5 °C
Bx2	
Avg	7.1 °C
Min	0.5 °C
Sp1	19.5 °C

Alarms

Isotherms

Note

Note



File information

Created	2/17/2023 8:21:34 AM
File name	FLIR2120.jpg
File size	1006 KB
Width	320
Height	240
Minimum temp.	2.3 °C
Maximum temp.	20.7 °C
Page number	22
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	15.0 °C
Atmospheric temp.	20.0 °C
Relative humidity	38.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00

Measurements

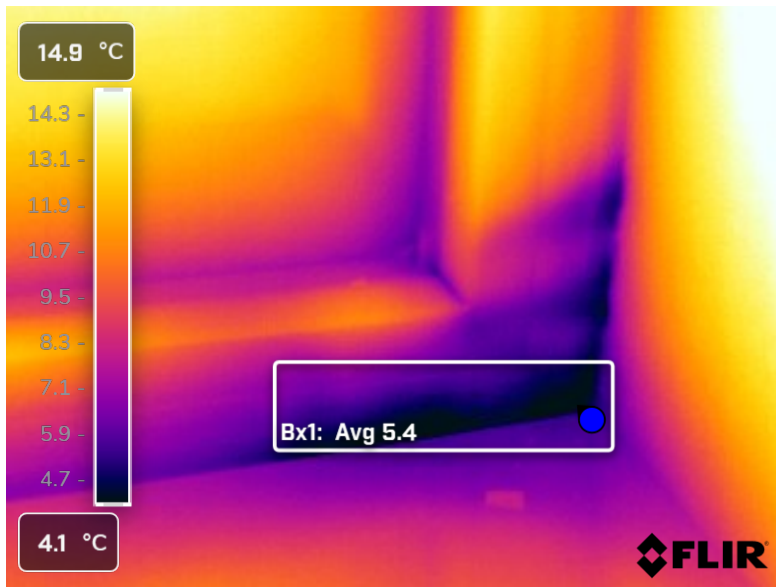
No plot to display

Alarms

Isotherms

Note

Note



File information

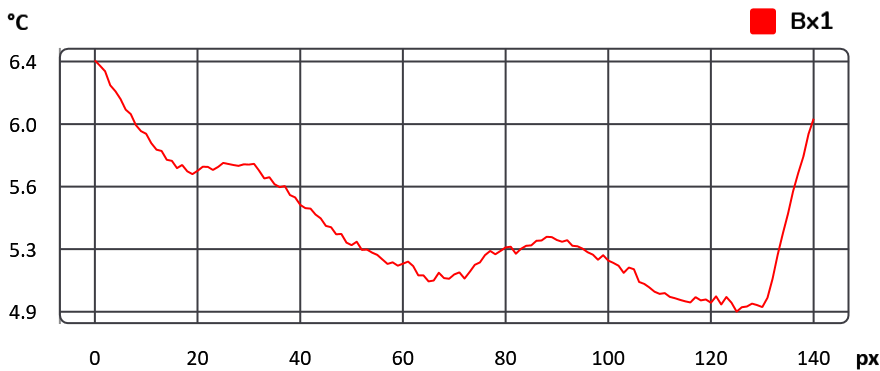
Created	2/17/2023 8:22:06 AM
File name	FLIR2122.jpg
File size	786 KB
Width	320
Height	240
Minimum temp.	3.6 °C
Maximum temp.	15.8 °C
Page number	23
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	15.0 °C
Atmospheric temp.	20.0 °C
Relative humidity	38.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00



Measurements

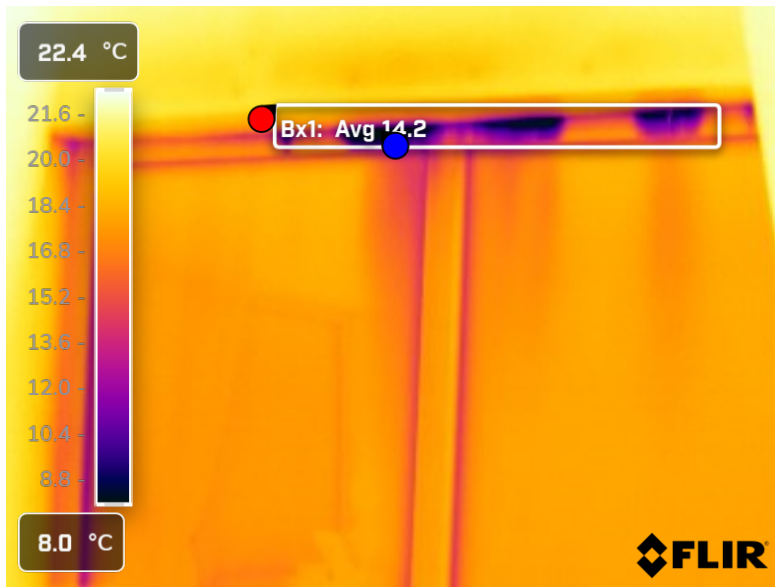
Bx1	
Min	3.6 °C

Alarms

Isotherms

Note

Note



File information

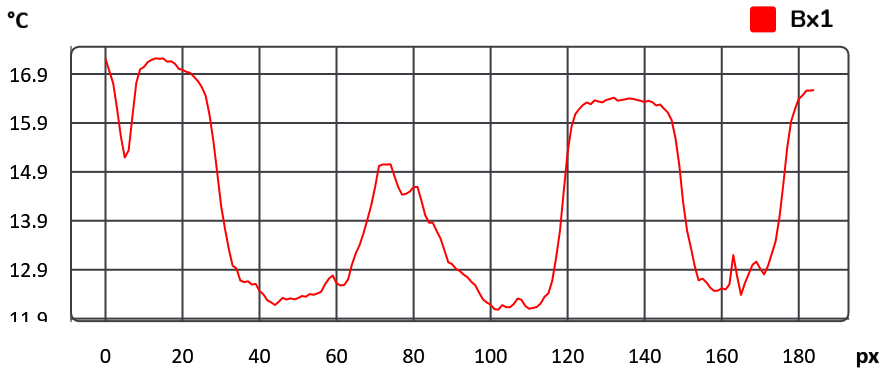
Created	2/17/2023 8:25:44 AM
File name	FLIR2127.jpg
File size	681 KB
Width	320
Height	240
Minimum temp.	5.1 °C
Maximum temp.	22.3 °C
Page number	24
Thermogram index	

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	15.0 °C
Atmospheric temp.	20.0 °C
Relative humidity	38.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00
Reference temp.	0.0 °C

Camera information

Camera model	FLIR E60bx
Lens	FOL18
Camera serial	64513171
Filter	
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	25.00



Measurements

Bx1	
Max	20.2 °C
Min	5.1 °C

Alarms

Isotherms

Note

Note

ROMÂNIA

MINISTERUL MUNCII
ȘI JUSTITIEI SOCIALE

MINISTERUL EDUCAȚIEI
NAȚIONALE

SERIA M N° 00044291

CERTIFICAT DE ABSOLVIRE

D/D-na Dăcilă Cristian

C.N.P.1.8.3.0.3.0.5.1.1.5.1.7.7....

născut(ă) în anul 1983..... luna Martie.....

ziua 05..... în localitatea..... Reșița.....

judetul/sectorul ..Caras-Severin.....

fiul/fiica lui ..Ion.....

și al (a) ..Maria.....

a participat în perioada 05.06.2021 - 10.06.2021

la programul de ~~iniere~~/perfectionare/spe-

cializare cu durata de48..... ore

pentru ocupația (competențe comune)

.....Operator echipamente de termografie.....

cod COR313908..... organizat de

.....Infrared Training & Consulting Center.....

cu sediul în localitateaOtopeni.....

judetulIlfov.....

înmatriculat în RNFFPA cu nr.

IF/456/23/275/26.10.2017.....

și a promovat examenul de absolvire în

anul 2021..... luna06..... ziua10.....

Nr. 309..... Data eliberării: anul luna ziua

Semnătură absolvent

*) Directorul furnizorului de formare

**) Președintele comisiei de examinare

ROMÂNIA

MINISTERUL MUNCII
ȘI JUSTITIEI SOCIALE

MINISTERUL EDUCAȚIEI
NAȚIONALE

SERIA M N° 00044291

CERTIFICAT DE ABSOLVIRE

TS

D/D-na Dăcilă Cristian

C.N.P.1.8.3.0.3.0.5.1.1.5.1.7.7.... născut(ă) în anul 1983. luna Martie

ziua 05... în localitateaReșița..... judetul/sectorul ..Caras.....

fiul (fiica) luiIon..... și al (a)Maria.....

a participat în perioada 05.06.2021...10.06.2021... la programul de iniere / perfectionare /

specializare cu durata de48... ore, pentru ocupația (competențe comune)

Operator echipamente de termografie.....cod COR313908.....

organizat deInfrared Training & Consulting Center SRL.....

cu sediul în localitateaOtopeni.....

judetulIlfov..... înmatriculat în Registrul național al furnizorilor de formare

profesională autorizați cu nr.IF/456/23/275/26.10.2017... și a promovat examenul de

absolvire în anul 2021... luna ..06..... ziua ..10... cu nota/calificativul 10 (zece).....

Prezentul certificat se eliberează în conformitate cu prevederile O.G. nr. 129/2000,

republicată cu modificările și completările ulterioare și însoțit de suplimentul descriptiv al

certificatului.

Nr. 309..... Data eliberării: anul luna ziua