Thermography Report

Client information

Beneficiary name	-
Beneficiary FIN/PIN	-
Beneficiary adress	-
Contact	-
Object of inspection	Qualitative Building Thermal Inspection

Company information

Company name	Infrared Technology Services SRL
Company FIN	46067645
Company adress	Romania, Jud. Timis, Timisoara, alea Torontalului, nr 15
Contact	+400724995545 office@irspector.com
Website	
Object of inspection	Qualitative Building Thermal Inspection
Level of detail	Medium

Document properties

ModifiedDate	3/24/2023 12:42:04 AM
CreationDate	2023-3-2 18:21:10
ReportName	Building thermal isolation
ModifiedDateLocal	3/24/2023 2:42:04 AM
Inspection date	3/2/2023 7:00:00
Contact person	Dacila Cristian - 0724995545 tehnic@irspector.com
Company	Infrared Technology Services
Certified Thermographer	Cristian Dacila
Valid Certification Number	M - 00044291
Infrared equipment used	FLIR E60 bx - serial nr. 64513171
Last calibration date	December 2021

Wether conditions

Exterior air temperature	-1 C*
Interior air temperature	24 C*
Reference exterior surface temperature	-4 C*
Reference interior surface temperature	21 C*
Relative exterior air humidity	RH 55%
Relative interior air humidity	RH 28%
External atmospheric pressure	n.a.
Internal atmospheric pressure	n.a.
Wind speed	< 7km/h
Wind direction	

Location on map (north up)



Thermography Report

List of tools, devices and software used

IR Camera	FLIR E60bx
Air humidity meter	CMD DT-321
Material humidity meter	EXTECH MO55
Anemometer	n.a.
Pressure level meter	n.a.
Thermometer	CMD DT-321
Software	FLIR Studio Suite Profesional

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Section 1	Rezumat Raport C2 Anvelopa Fundatie Infiltratii de aer Punti termice Usi si ferestre

INFO.

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 măsurătorilor termografice.

În cadrul analizelor calitative, unde nu este necesară o precizie extremă a temperaturilor, se utlizează 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.

În contrast, pentru analizele cantitative, care necesită o precizie mai mare și sunt adesea folosite în aplicații științifice sau industriale, este esențială cunoașterea emisivității reale a fiecărei suprafețe examinate. Acest lucru permite realizarea ajustărilor necesare în măsurători pentru a reflecta mai exact realitatea fizică. De exemplu, dacă un material are o emisivitate mai mică, acesta va părea mai rece decât este în realitate într-o imagine termografică, deci ajustarea emisivității în calculații este crucială pentru a obține o imagine precisă a distribuției temperaturii.

Section 1.

Rezumat Raport C2.

In urma verificarilor termografice si a analizei termogramelor s-au constatat urmatoarele:

1. Lipsa etansietatii. In cazul de fata lipsa etansietatii cladirii reprezinta probabil principalacauza a pierderilor de energie. Aparent un volum mare de aer patrunde in cladire la parter si scapa din cladire la etajele superioare. De exemplu, la usile de la
parter se pot observa urmele aerului rece care patrunde pe sub usa, iar la mansarda in jurul grinzilor la imbinarea cu tavanul, se
poate observa o temperatura mai mare decat restul tavanului. Deasemenea se observa temperaturi mai mari la coama cladirii si la
acoperis.
Pentru stabilirea volumului de aer care strabate cladirea este necesar un test cu usa suflanta (bbwer door). Prin aceasta metoda
se poate stabili gradul de ventilare (nedorita) a cladirii. Standardele stabilesc in functie de zonasi climat un indice de schimb de
aer pentru o cladire. Acesta este in general intre 2-4, reprezentand de cate ori se inlocuieste intregul volum de aer al unei cladiri
intr-o ora. Acest test se face prin aspiratia cladirii pana la o presiune interioara stabila de-50 pascali iar dispozitivul masoara si
calculeaza volumul de aer care patrunde in cladire pentru a mentine constant presiunea de-50 pascali..
ex. pag. 27, 188, 265, 272, 273.

2. Fundatia cladirii. Fundatia nu este termoizolata si pe suprafata acesteia se inregistreaza temperaturi de peste 11*C, aproape
50% din diferenta de temp. int-ext. (Delta t.=24*C)
ex. pag. 48, 66, 77, 78, 86.

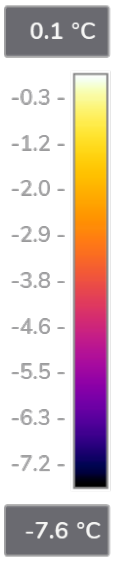
3. Usile si ferestrele. Acestea par a avea un grad redus de termo-izolare si in general sunt montate necorespunzator. Deasemenea multe prezinta si semne de garnituri sau tamplarie defecta.
ex. pag. 95, 99, 126, 114, 201, 234.

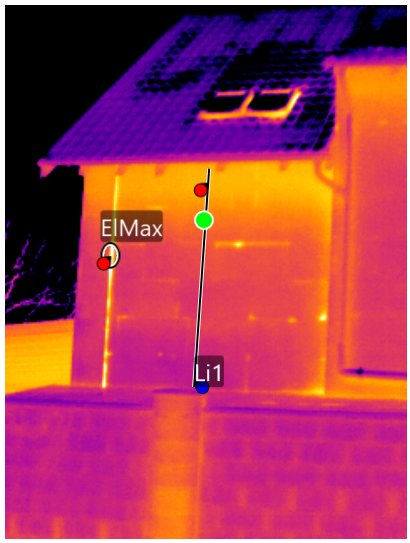
4. Anvelopa cladirii. Anvelopa cladirii este o alta cauza majora a pierderilor de energie si a altor efecte nedorite cum ar fi acumularea de umiditate prin condens. Nefiind montata corespunzator (lipita cu mamaligi) permite ærului sa circule liber pe sub
anvelopa. Acest aer (spala) constant caldura peretelui, dupa care este eliminat pe la acoperis. Petele si liniile care se observa si cu
ochiul liber pe suprafata anvelopei sunt cauzate de umiditate trecerea aerului printre placile de polistiren.
ex. pag. 15, 16, 17.

Recomandari

Etansarea cladirii in limita posibilitatilor.
Termoizolarea fundatiei
Inlocuirea sau repararea usilor si ferestrelor.
Refacerea anvelopei.

Anvelopa







FLIR2296.jpg 3/12/2023 7:11:43 AM 64513171

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

Parameters

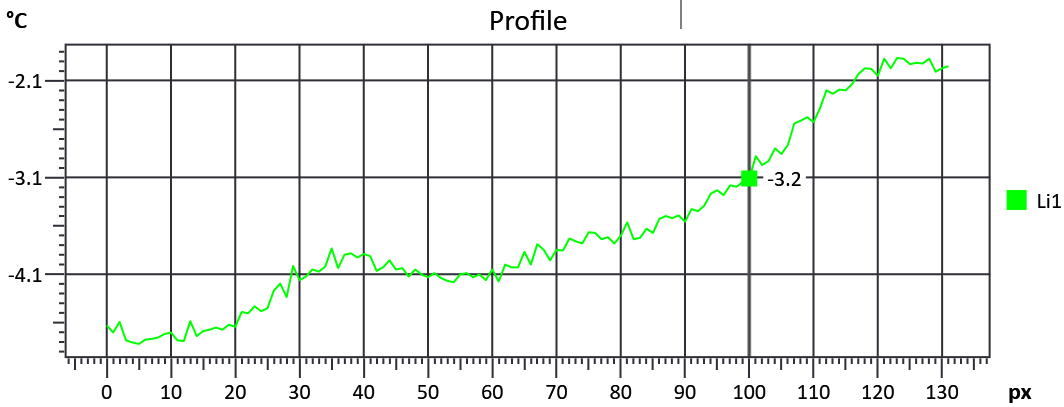
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li1	
Max	-1.9 °C
Avg	-3.7 °C
Min	-4.9 °C
ElMax	
Max	2.9 °C

File information

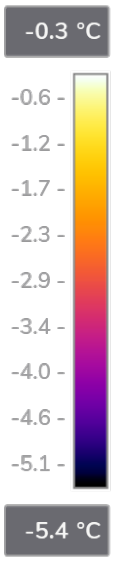
File name	FLIR2296.jpg
File size	699 KB
Width	240
Height	320
Minimum temp.	-34.6 °C
Maximum temp.	2.9 °C

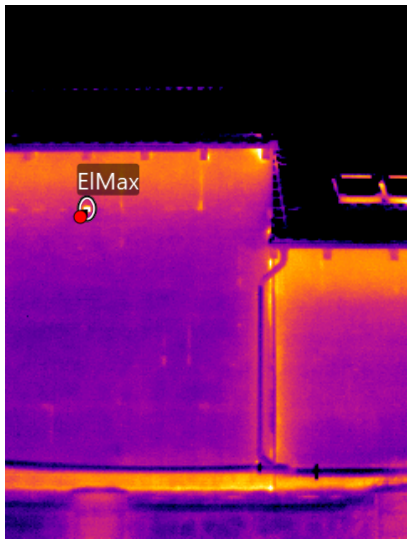




Note

Note	Spatii intre placile de polistiren si gradient pe perete cu temperaturi cu Delta t. 6*C







FLIR2298.jpg 3/12/2023 7:12:03 AM 64513171

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

Parameters

Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMax	
Max	8.1 °C

File information

File name	FLIR2298.jpg
File size	671 KB
Width	240
Height	320
Minimum temp.	-40.0 °C
Maximum temp.	8.1 °C

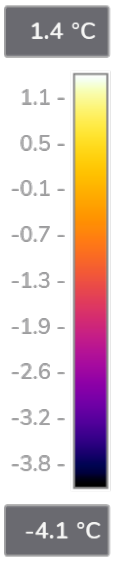
Profile

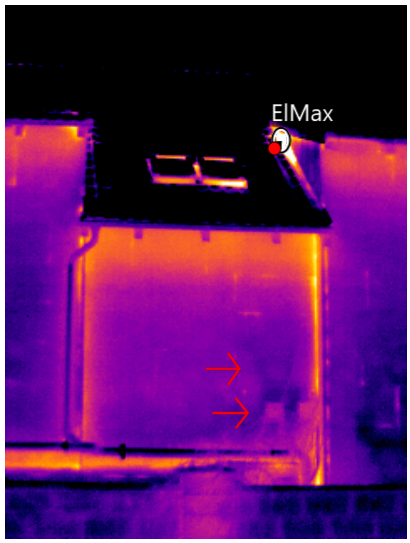
No plot to display



Note

Note	







FLIR2299.jpg 3/12/2023 7:12:11 AM 64513171

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

Parameters

Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMax	
Max	10.2 °C

File information

File name	FLIR2299.jpg
File size	697 KB
Width	240
Height	320
Minimum temp.	-40.0 °C
Maximum temp.	10.2 °C

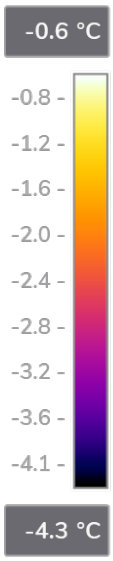
Profile

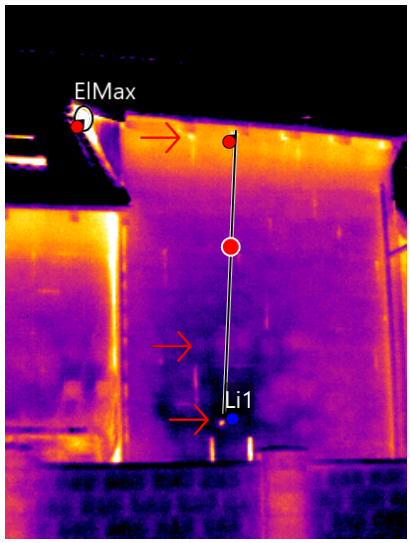
No plot to display



Note

Note	Efectul patrunderii aerului rece pe sub anvelopa.







FLIR2300.jpg 3/12/2023 7:12:21 AM 64513171

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

Parameters

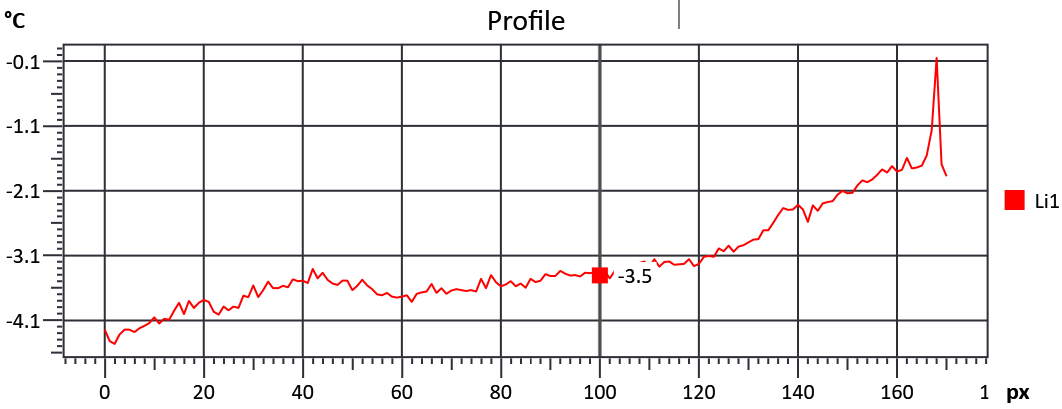
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li1	
Max	-0.1 °C
Avg	-3.3 °C
Min	-4.5 °C
ElMax	
Max	9.8 °C

File information

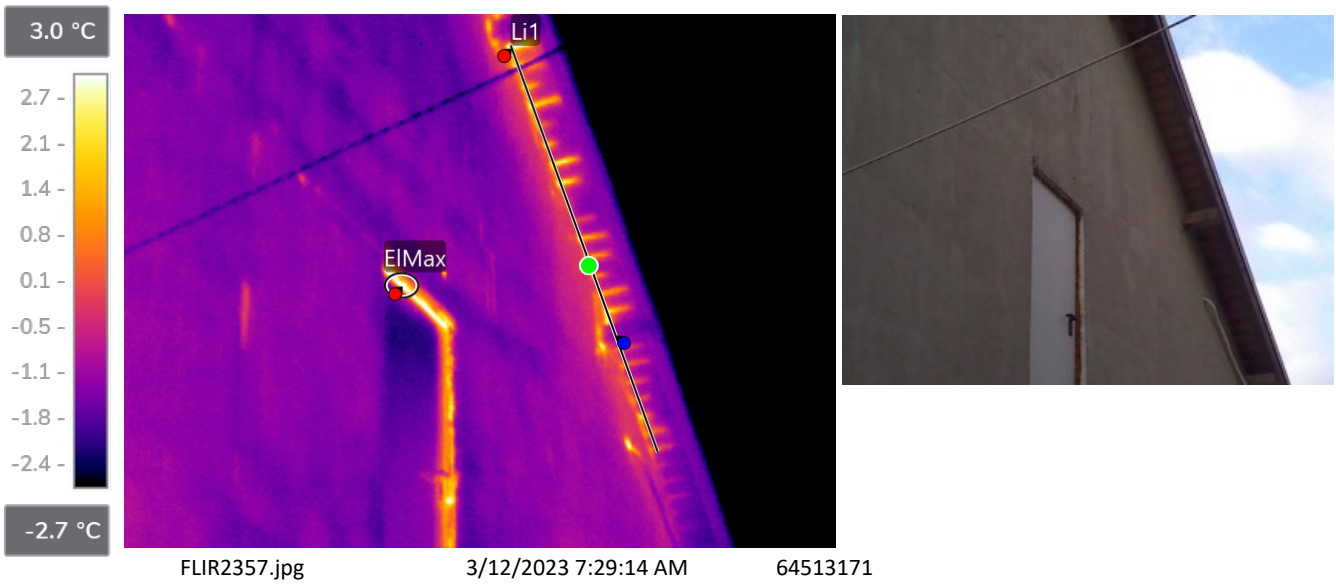
File name	FLIR2300.jpg
File size	724 KB
Width	240
Height	320
Minimum temp.	-40.0 °C
Maximum temp.	9.8 °C





Note

Note	Urmele aerului rece care patrunde prin gaurile din anvelopa. Se pot observa clar "punctele de lipitura" a polistirenului care actioneaza ca-si elementii unui radiator. Cedeaza caldura aerului din cavitate pe urma este eliminat la baza acoperisului.



FLIR2357.jpg 3/12/2023 7:29:14 AM 64513171

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

Parameters

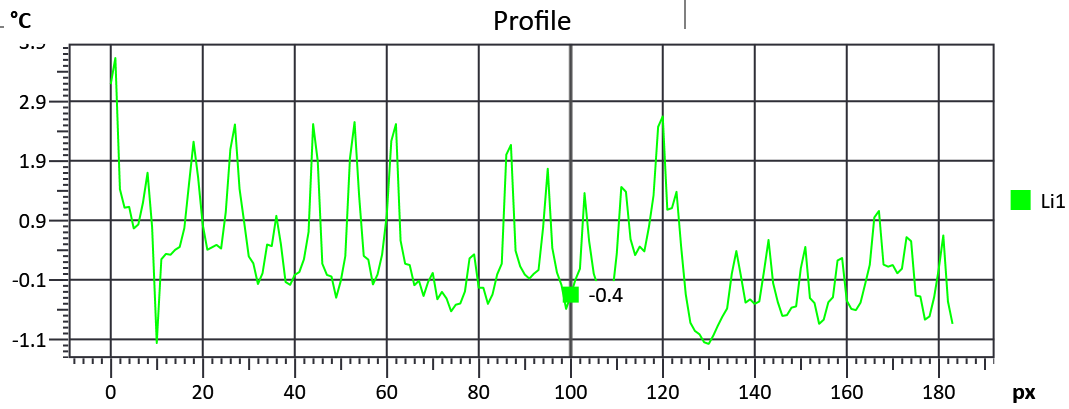
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMax	
Max	5.2 °C
Li1	
Max	3.6 °C
Avg	0.3 °C
Min	-1.2 °C

File information

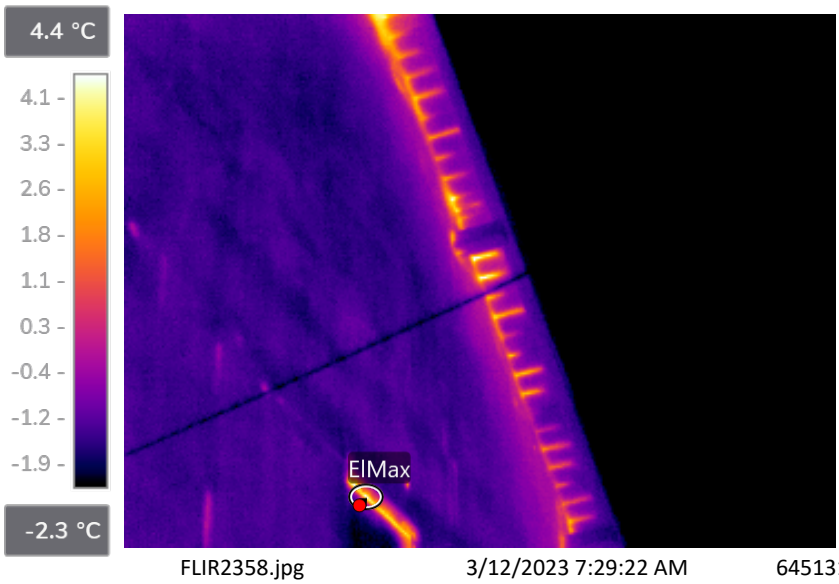
File name	FLIR2357.jpg
File size	637 KB
Width	320
Height	240
Minimum temp.	-40.0 °C
Maximum temp.	5.2 °C

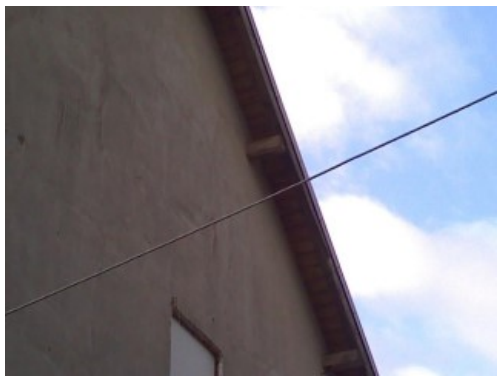




Note

Note	Urmele aerului cald eliminat din spatele polistirenului.





FLIR2358.jpg 3/12/2023 7:29:22 AM 64513171

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

Parameters

Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMax	
Max	4.7 °C

File information

File name	FLIR2358.jpg
File size	622 KB
Width	320
Height	240
Minimum temp.	-40.0 °C
Maximum temp.	4.7 °C

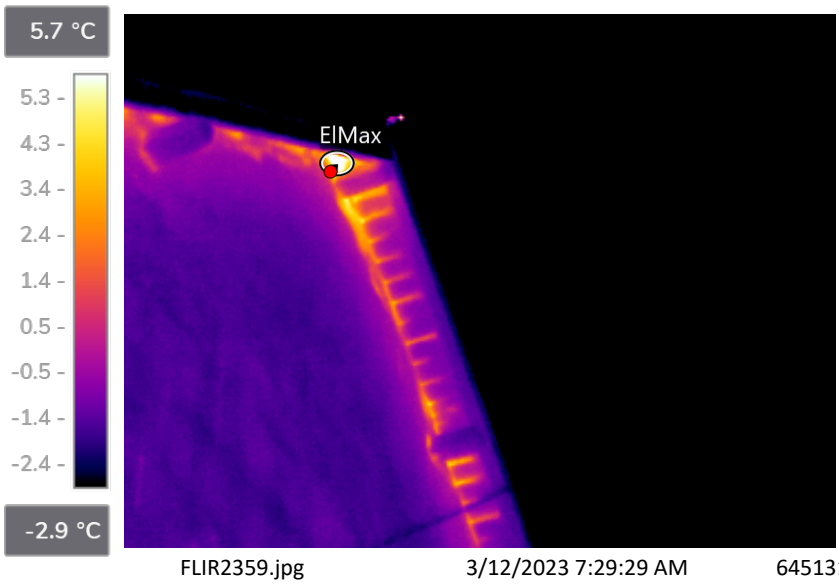
Profile

No plot to display



Note

Note	Aer cald din spatele polistirenului





FLIR2359.jpg 3/12/2023 7:29:29 AM 64513171

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

Parameters

Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMax	
Max	8.5 °C

File information

File name	FLIR2359.jpg
File size	526 KB
Width	320
Height	240
Minimum temp.	-40.0 °C
Maximum temp.	8.5 °C

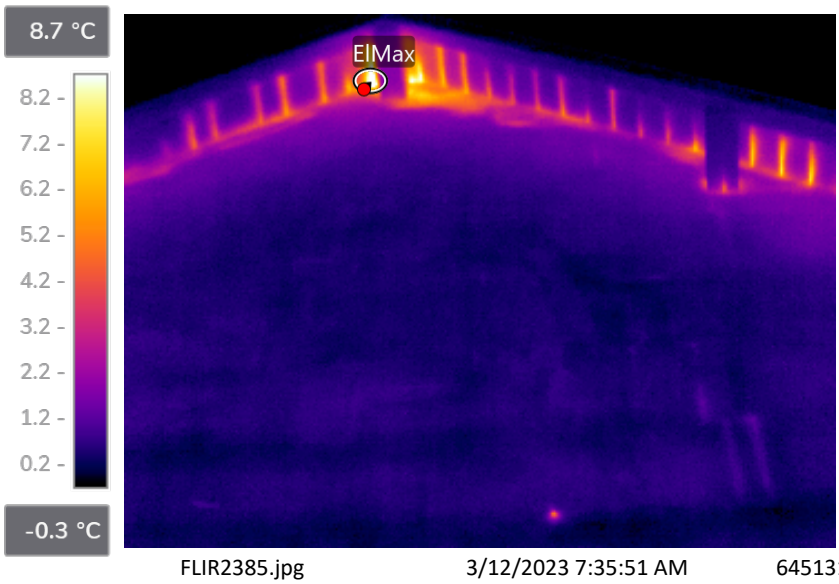
Profile

No plot to display



Note

Note	





FLIR2385.jpg 3/12/2023 7:35:51 AM 64513171

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

Parameters

Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMax	
Max	10.8 °C

File information

File name	FLIR2385.jpg
File size	652 KB
Width	320
Height	240
Minimum temp.	-40.0 °C
Maximum temp.	10.8 °C

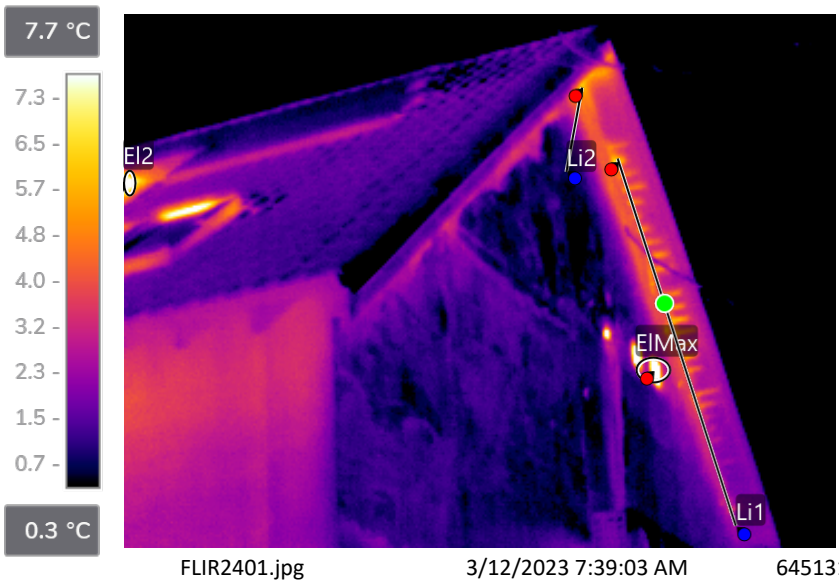
Profile

No plot to display



Note

Note	





FLIR2401.jpg 3/12/2023 7:39:03 AM 64513171

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

Parameters

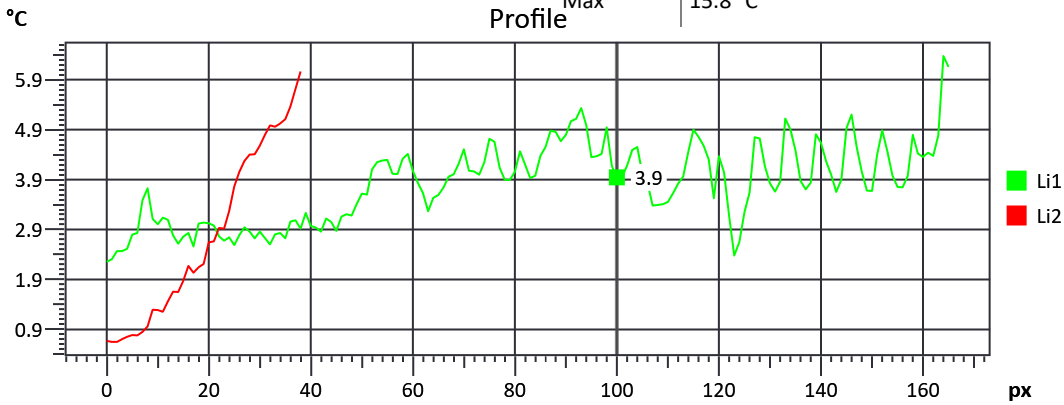
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li1	
Max	6.3 °C
Avg	3.8 °C
Min	2.2 °C
Li2	
Max	6.0 °C
Avg	2.7 °C
Min	0.6 °C
ElMax	
Max	15.8 °C

File information

File name	FLIR2401.jpg
File size	916 KB
Width	320
Height	240
Minimum temp.	-40.0 °C
Maximum temp.	15.8 °C

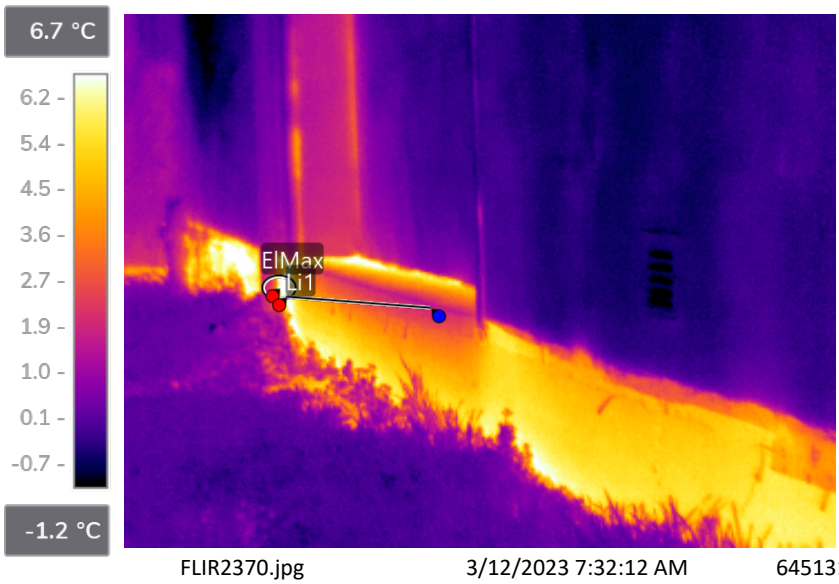




Note

Note	

Fundatia





FLIR2370.jpg 3/12/2023 7:32:12 AM 64513171

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

Parameters

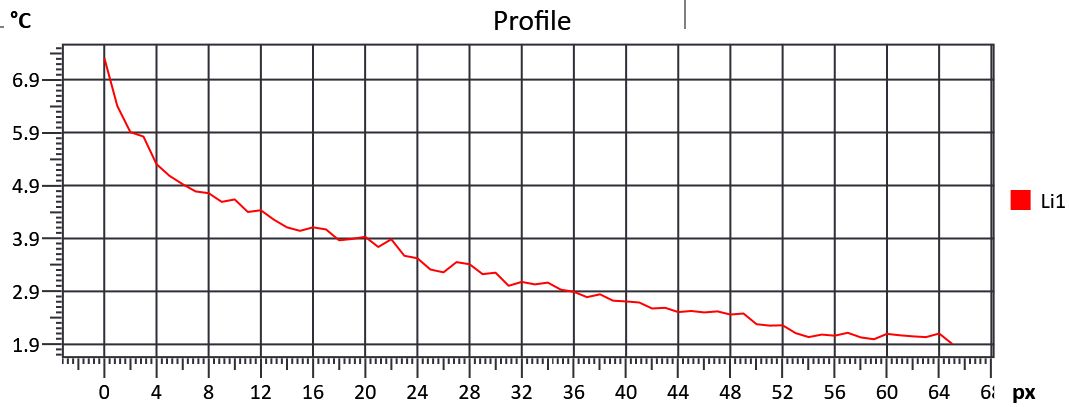
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li1	
Max	7.3 °C
Avg	3.3 °C
Min	1.9 °C
Dt1	
Li1.Max-Li1.Min	5.4 °C
ElMax	
Max	7.7 °C

File information

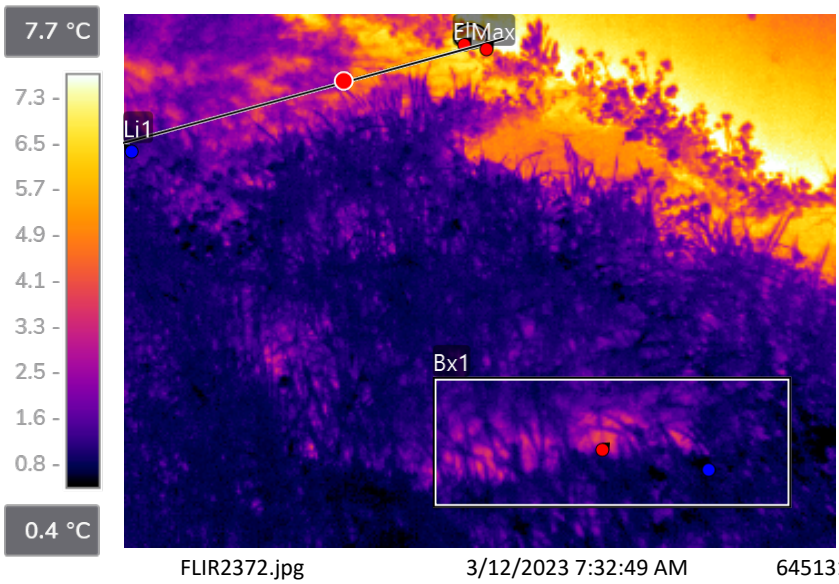
File name	FLIR2370.jpg
File size	1040 KB
Width	320
Height	240
Minimum temp.	-3.8 °C
Maximum temp.	7.7 °C





Note

Note	Muchia fundatiei este mai rece deoarece este expusa o suprafata mai mare.





FLIR2372.jpg 3/12/2023 7:32:49 AM 64513171

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

Parameters

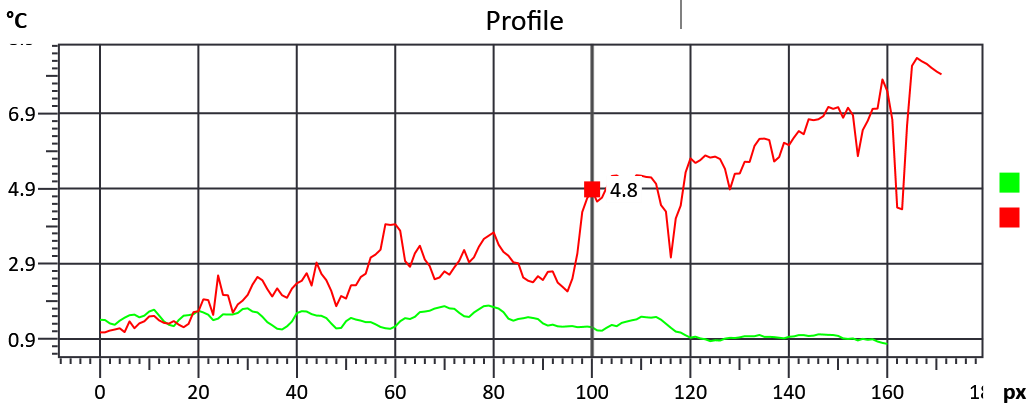
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Bx1	
Max	4.2 °C
Min	0.0 °C
Li1	
Max	8.3 °C
Avg	3.9 °C
Min	1.0 °C
ElMax	
Max	8.6 °C

File information

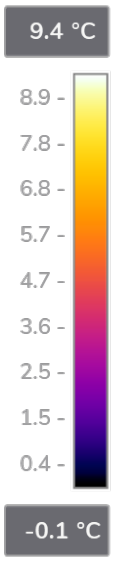
File name	FLIR2372.jpg
File size	1383 KB
Width	320
Height	240
Minimum temp.	0.0 °C
Maximum temp.	8.6 °C

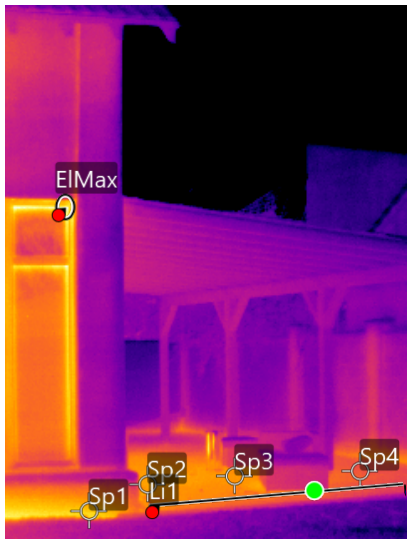




Note

Note	Bx1 (verde) reprezinta temperatura medie a solului la aprox 1m de cladire. Pe grafic se observa schimbarea de temp. cu 6*C, a lui Li1 (rosu) de la baza fundatiei pana la aprox 1m pe sol.







FLIR2397.jpg 3/12/2023 7:38:19 AM 64513171

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

Parameters

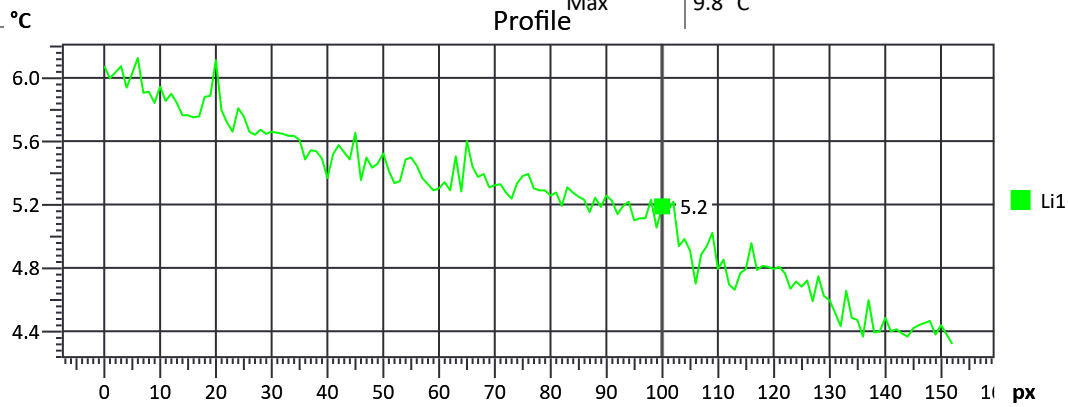
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li1	
Max	6.2 °C
Avg	5.3 °C
Min	4.4 °C
Sp1	7.4 °C
Sp2	6.6 °C
Sp3	6.2 °C
Sp4	4.9 °C
ElMax	
Max	9.8 °C

File information

File name	FLIR2397.jpg
File size	835 KB
Width	240
Height	320
Minimum temp.	-38.0 °C
Maximum temp.	9.8 °C





Note

Note	





FLIR2398.jpg 3/12/2023 7:38:39 AM 64513171

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

Parameters

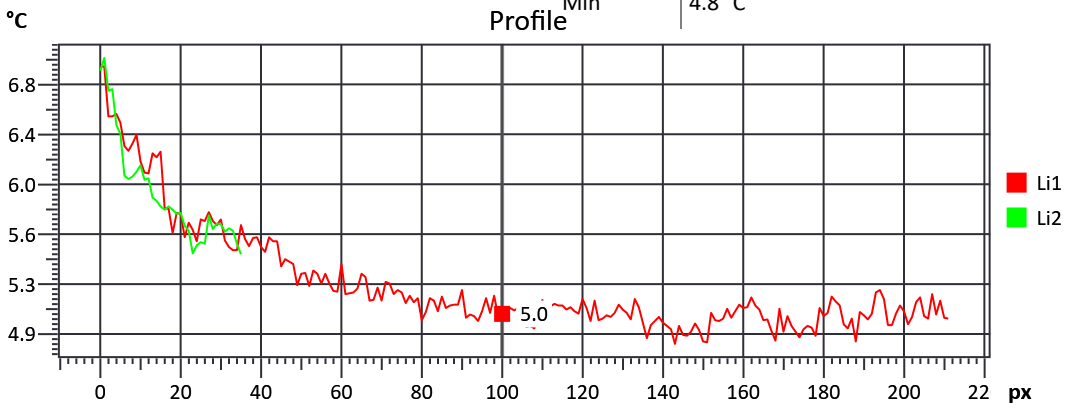
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li2	
Max	7.1 °C
Avg	6.0 °C
Min	5.5 °C
ElMax	
Max	10.4 °C
Li1	
Max	7.0 °C
Avg	5.2 °C
Min	4.8 °C

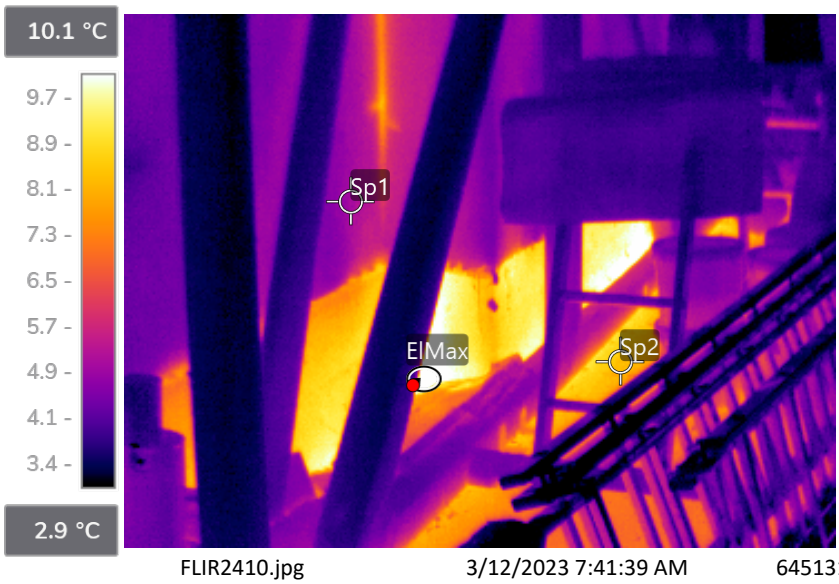
File information

File name	FLIR2398.jpg
File size	1179 KB
Width	320
Height	240
Minimum temp.	0.4 °C
Maximum temp.	10.4 °C



Note

Note	Fundatia incalzeste pamantul din jurul ei, se poate observa pe grafic gradientul de racire al pavajului.



FLIR2410.jpg 3/12/2023 7:41:39 AM 64513171

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

Parameters

Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Sp1	5.0 °C
Sp2	8.3 °C
ElMax	
Max	11.1 °C

File information

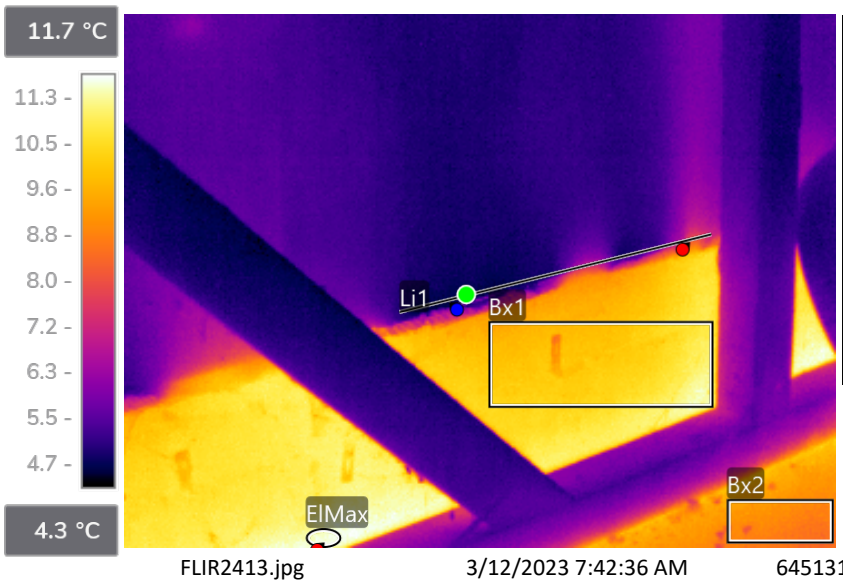
File name	FLIR2410.jpg
File size	971 KB
Width	320
Height	240
Minimum temp.	0.7 °C
Maximum temp.	11.1 °C

Profile

No plot to display

Note

Note	





FLIR2413.jpg 3/12/2023 7:42:36 AM 64513171

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

Parameters

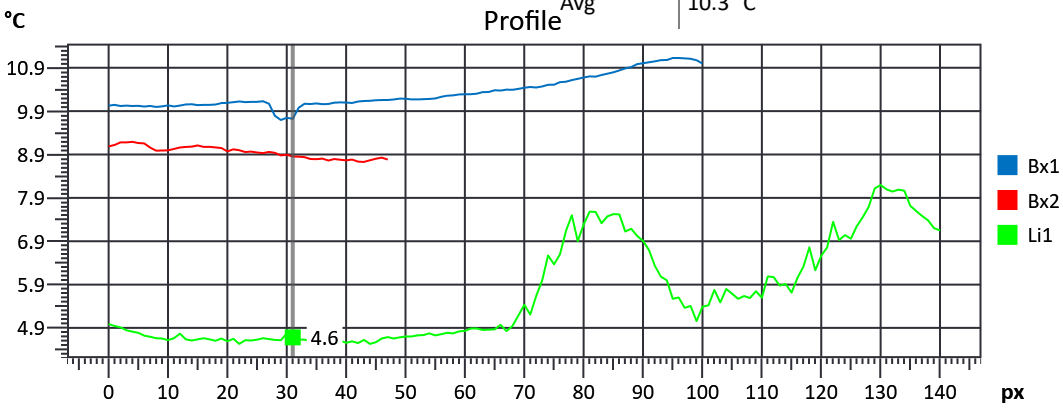
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

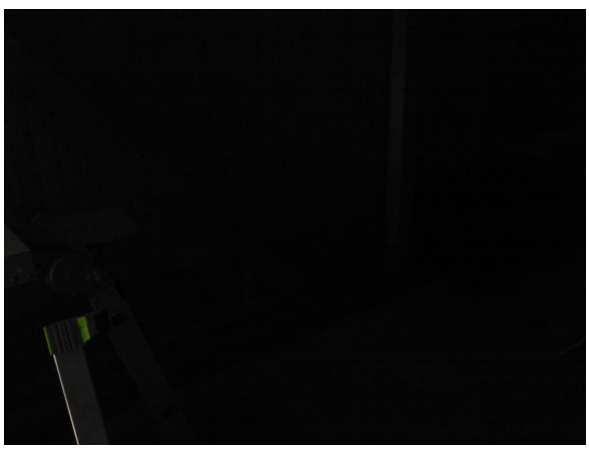
Measurements

Bx2	
Avg	8.9 °C
ElMax	
Max	11.7 °C
Li1	
Max	8.1 °C
Avg	5.6 °C
Min	4.5 °C
Bx1	
Avg	10.3 °C

File information

File name	FLIR2413.jpg
File size	376 KB
Width	320
Height	240
Minimum temp.	4.3 °C
Maximum temp.	11.7 °C

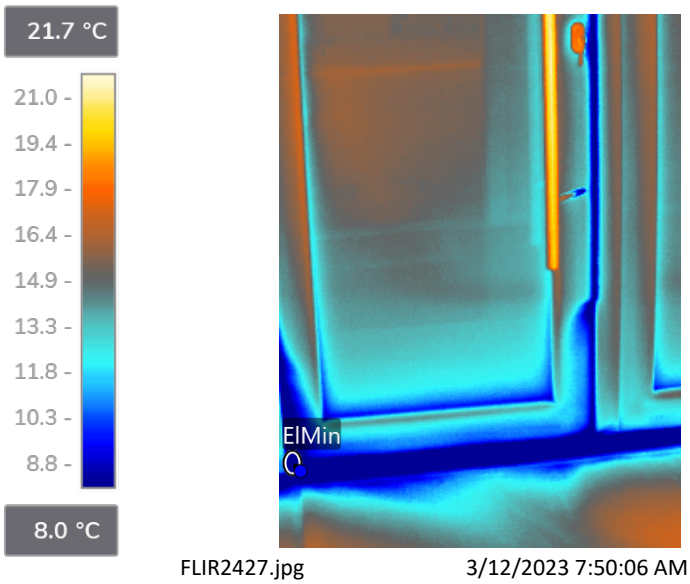




Note

Note	Bx1 (culoare albastra) indica temperatura medie a fundatiei si Bx2 temperatura medie a cimentului de pe sol. Se poate observa si gradientul de racire la Bx2, evidentiat cu rosu.

Infiltratii de aer



FLIR2427.jpg 3/12/2023 7:50:06 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	2.8 °C

File information

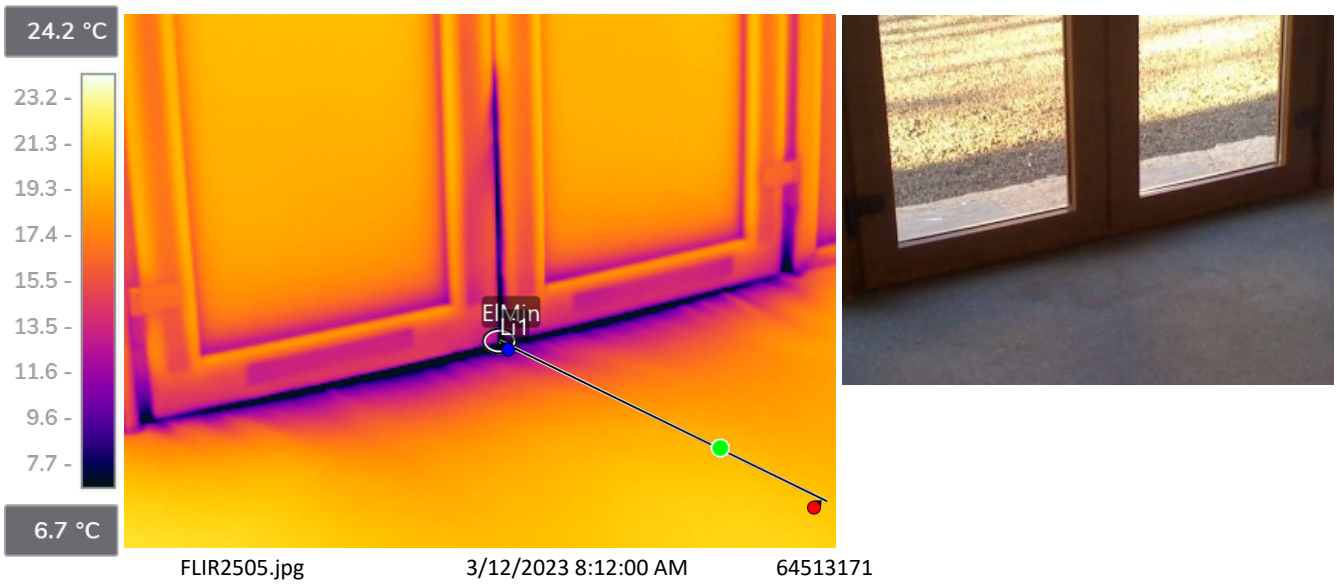
File name	FLIR2427.jpg
File size	753 KB
Width	240
Height	320
Minimum temp.	2.8 °C
Maximum temp.	21.5 °C

Profile

No plot to display

Note

Note	



FLIR2505.jpg 3/12/2023 8:12:00 AM 64513171

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

Parameters

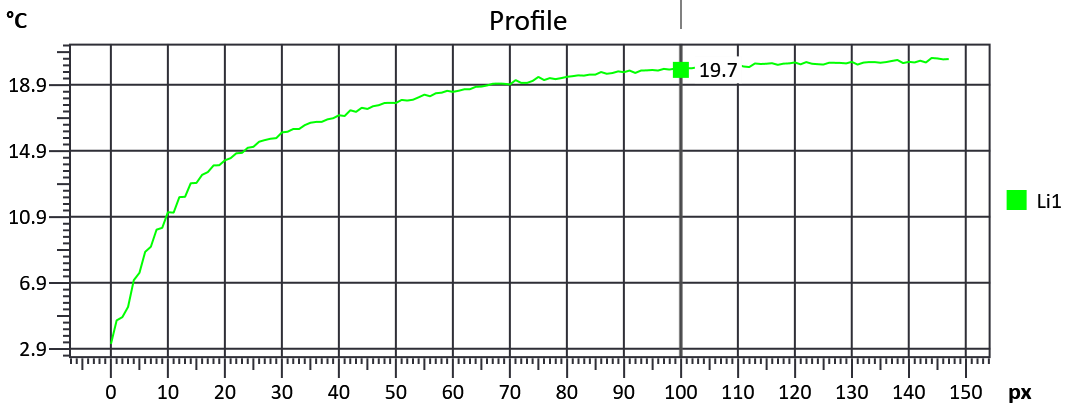
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	3.1 °C
Li1	
Max	20.5 °C
Avg	17.6 °C
Min	3.1 °C

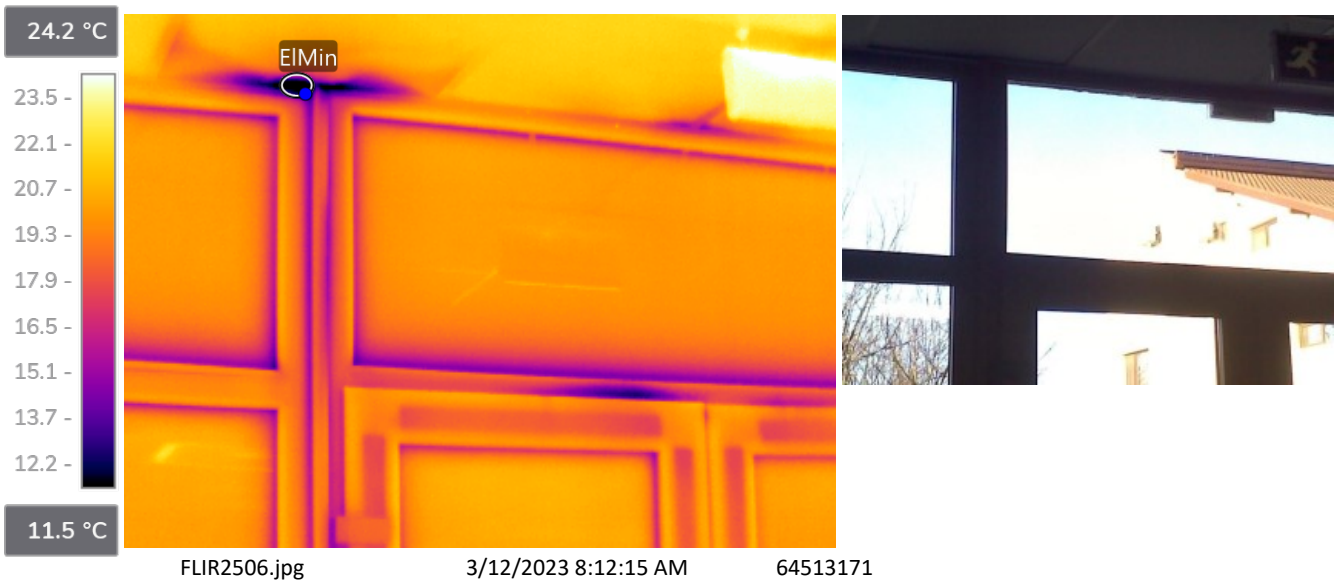
File information

File name	FLIR2505.jpg
File size	869 KB
Width	320
Height	240
Minimum temp.	3.1 °C
Maximum temp.	21.8 °C



Note

Note	Aer rece care patrunde cu debit mare la baza usilor.



FLIR2506.jpg 3/12/2023 8:12:15 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	10.0 °C

File information

File name	FLIR2506.jpg
File size	716 KB
Width	320
Height	240
Minimum temp.	10.0 °C
Maximum temp.	27.3 °C

Profile

No plot to display

Note

Note	



FLIR2507.jpg 3/12/2023 8:12:25 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	12.0 °C

File information

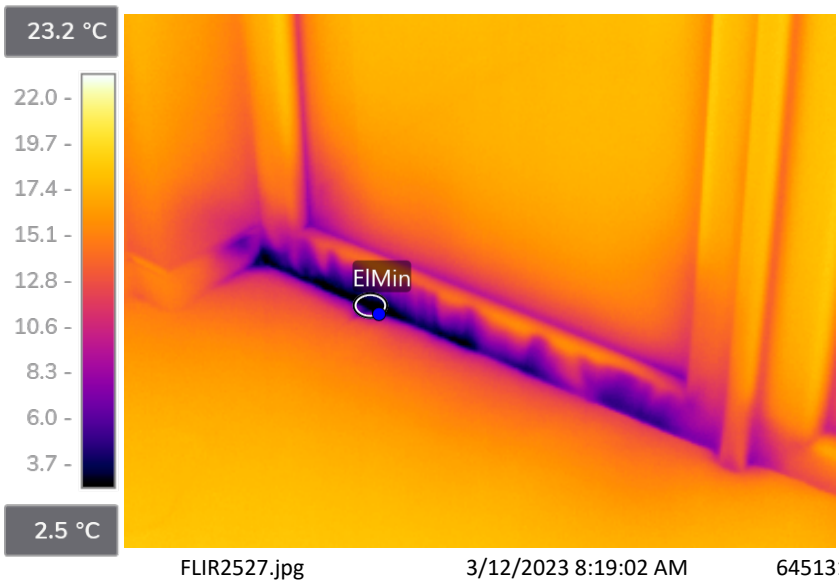
File name	FLIR2507.jpg
File size	721 KB
Width	320
Height	240
Minimum temp.	12.0 °C
Maximum temp.	27.4 °C

Profile

No plot to display

Note

Note	





FLIR2527.jpg 3/12/2023 8:19:02 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	1.6 °C

File information

File name	FLIR2527.jpg
File size	1157 KB
Width	320
Height	240
Minimum temp.	1.6 °C
Maximum temp.	19.2 °C

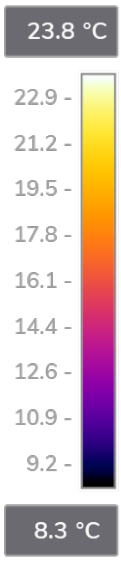
Profile

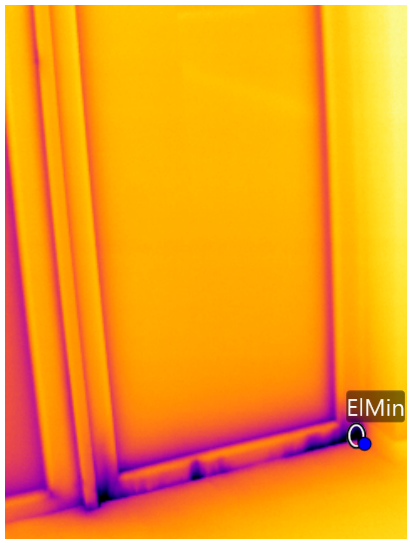
No plot to display



Note

Note	Aer rece cu debit mare care patrunde pe la baza ferestrei.







FLIR2530.jpg 3/12/2023 8:20:08 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

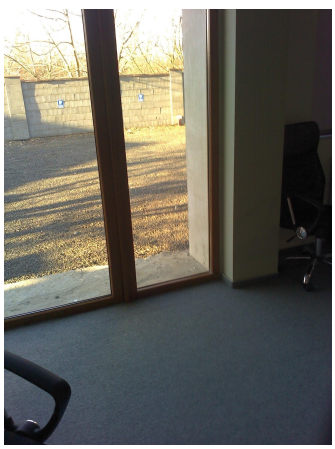
ElMin	
Min	6.4 °C

File information

File name	FLIR2530.jpg
File size	831 KB
Width	240
Height	320
Minimum temp.	6.4 °C
Maximum temp.	22.9 °C

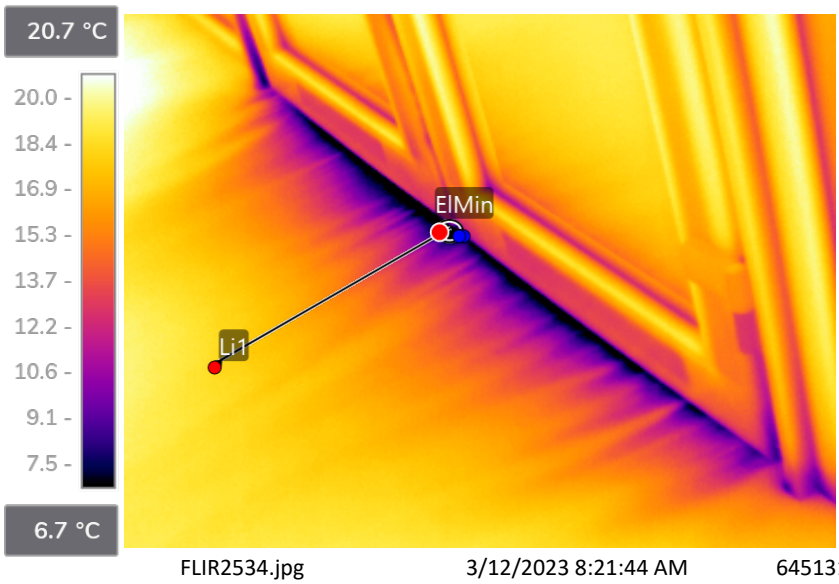
Profile

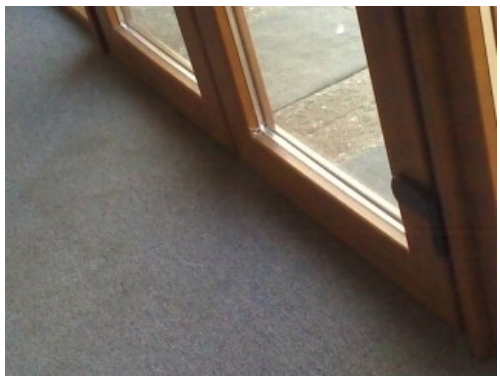
No plot to display



Note

Note	





FLIR2534.jpg 3/12/2023 8:21:44 AM 64513171

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

Parameters

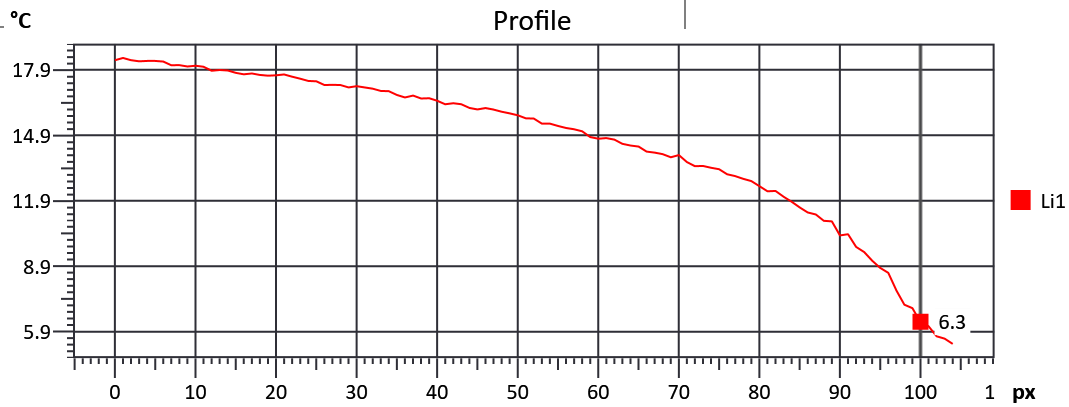
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	4.8 °C
Li1	
Max	18.4 °C
Avg	14.5 °C
Min	5.3 °C

File information

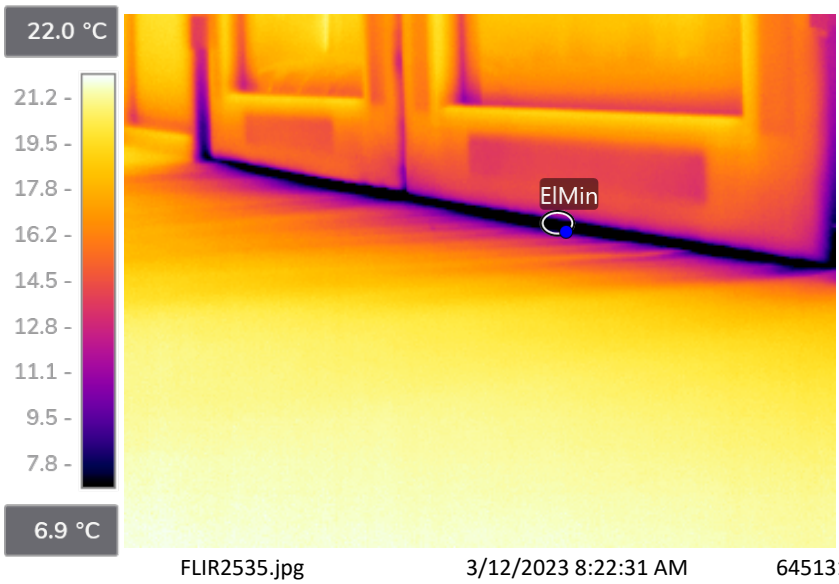
File name	FLIR2534.jpg
File size	1200 KB
Width	320
Height	240
Minimum temp.	4.5 °C
Maximum temp.	21.0 °C





Note

Note	Aer rece care patrunde pe sub usa .





FLIR2535.jpg 3/12/2023 8:22:31 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	2.3 °C

File information

File name	FLIR2535.jpg
File size	981 KB
Width	320
Height	240
Minimum temp.	2.3 °C
Maximum temp.	21.9 °C

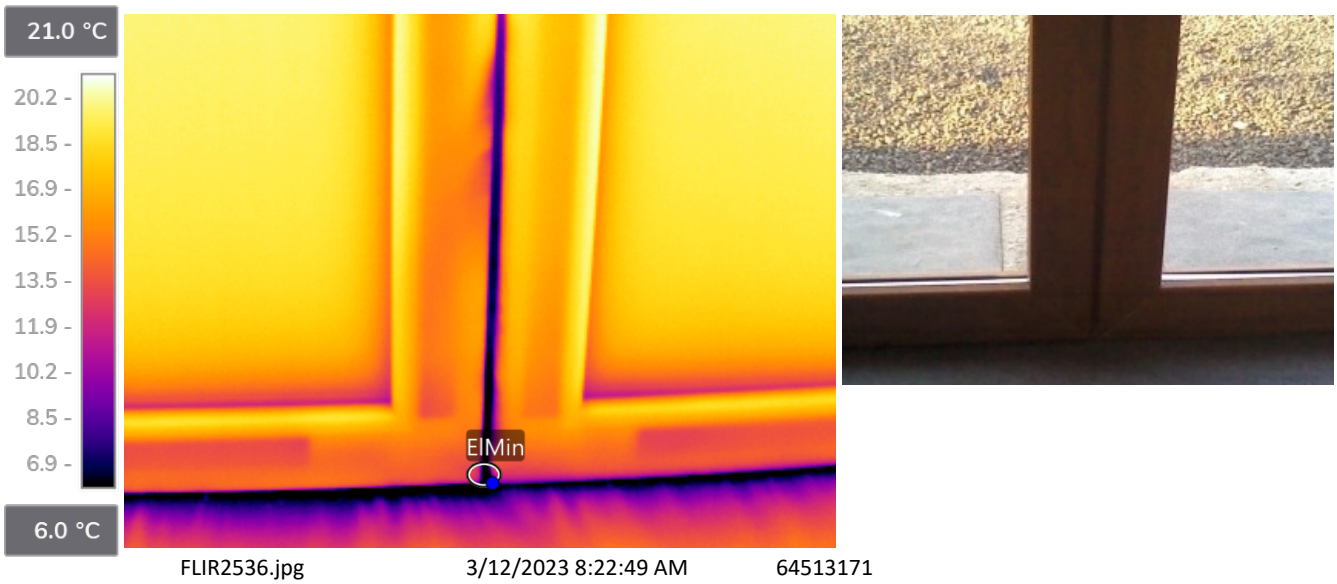
Profile

No plot to display



Note

Note	



FLIR2536.jpg 3/12/2023 8:22:49 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	2.1 °C

File information

File name	FLIR2536.jpg
File size	1115 KB
Width	320
Height	240
Minimum temp.	2.1 °C
Maximum temp.	20.6 °C

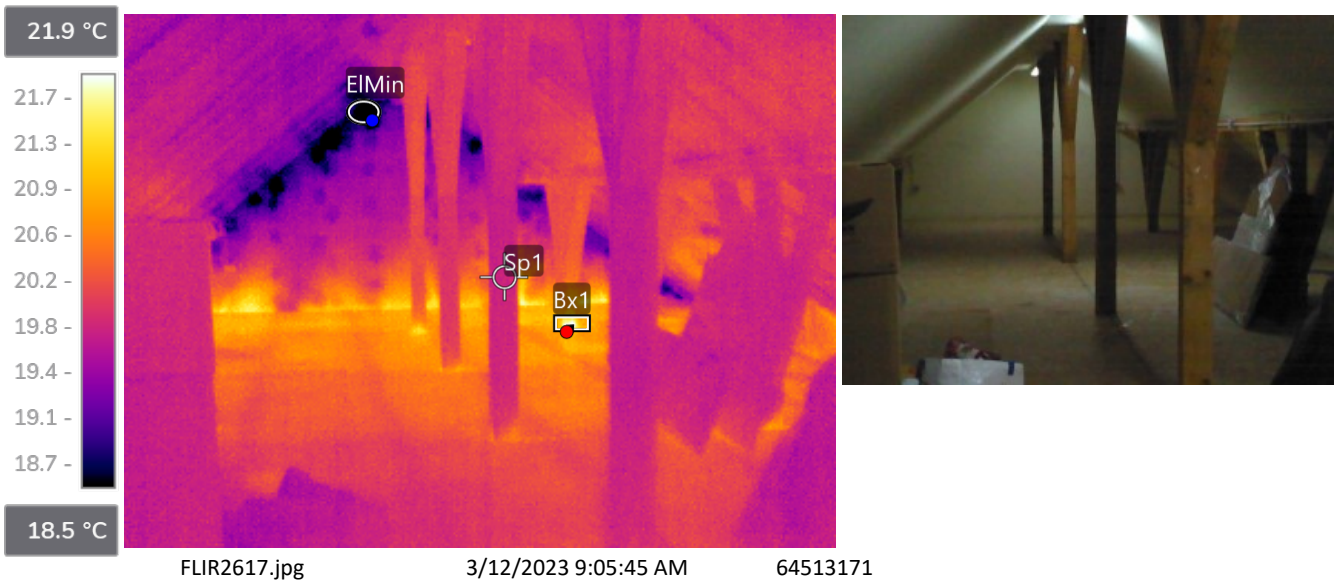
Profile

No plot to display



Note

Note	



FLIR2617.jpg 3/12/2023 9:05:45 AM 64513171

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

Parameters

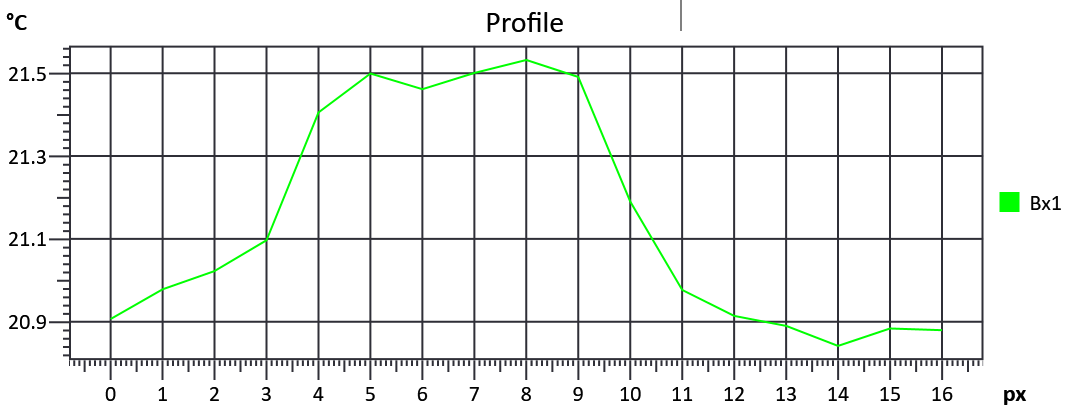
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Sp1	19.9 °C
ElMin	
Min	17.9 °C
Bx1	
Max	21.9 °C

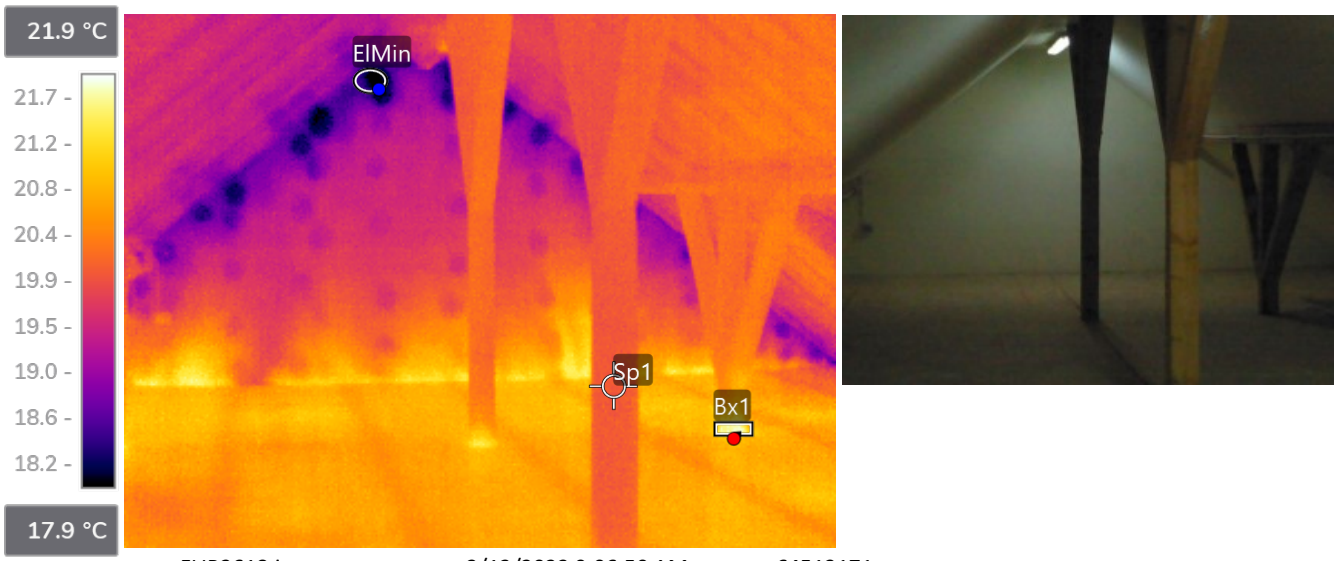
File information

File name	FLIR2617.jpg
File size	626 KB
Width	320
Height	240
Minimum temp.	17.9 °C
Maximum temp.	21.9 °C



Note

Note	



FLIR2618.jpg 3/12/2023 9:06:50 AM 64513171

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

Parameters

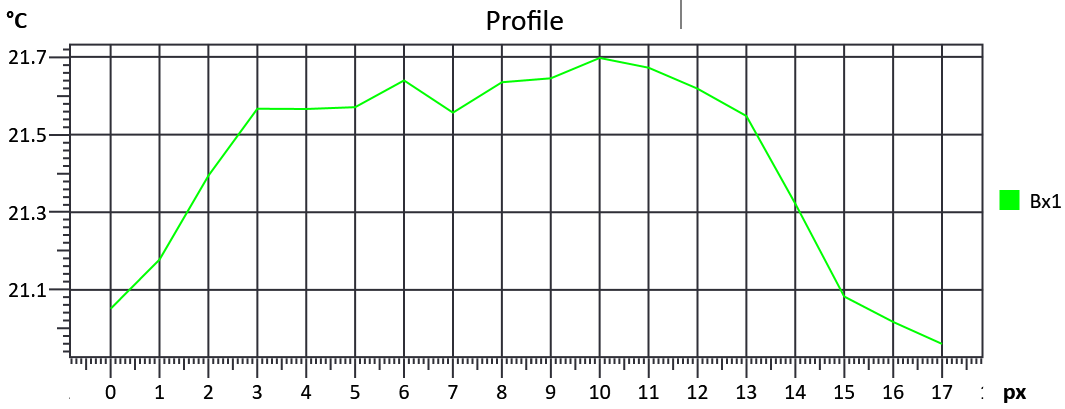
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Sp1	20.0 °C
ElMin	
Min	17.7 °C
Bx1	
Max	21.8 °C

File information

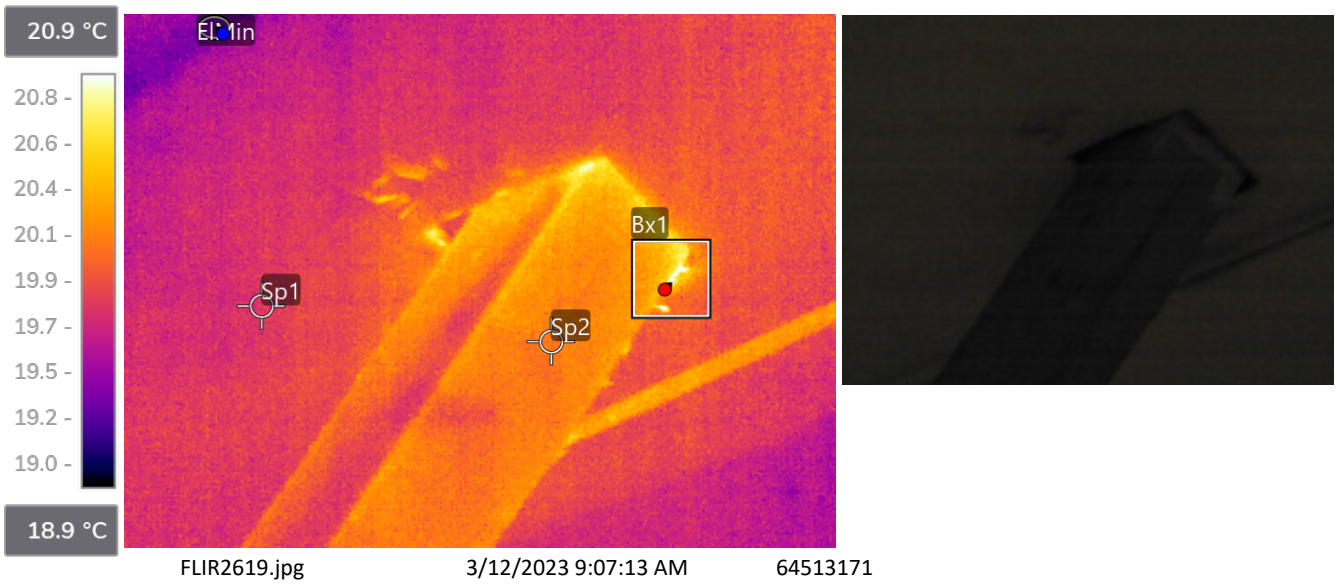
File name	FLIR2618.jpg
File size	588 KB
Width	320
Height	240
Minimum temp.	17.7 °C
Maximum temp.	21.8 °C





Note

Note	



FLIR2619.jpg 3/12/2023 9:07:13 AM 64513171

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

Parameters

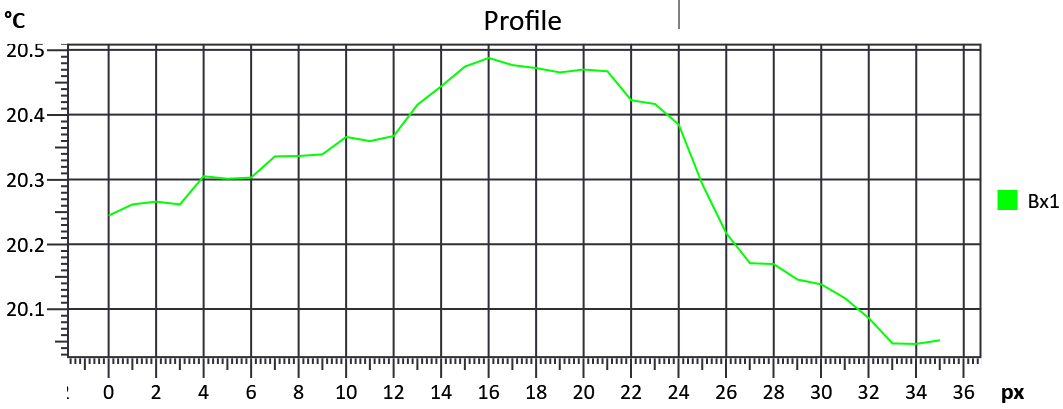
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Sp1	19.8 °C
Sp2	20.0 °C
ElMin	
Min	19.1 °C
Bx1	
Max	21.1 °C

File information

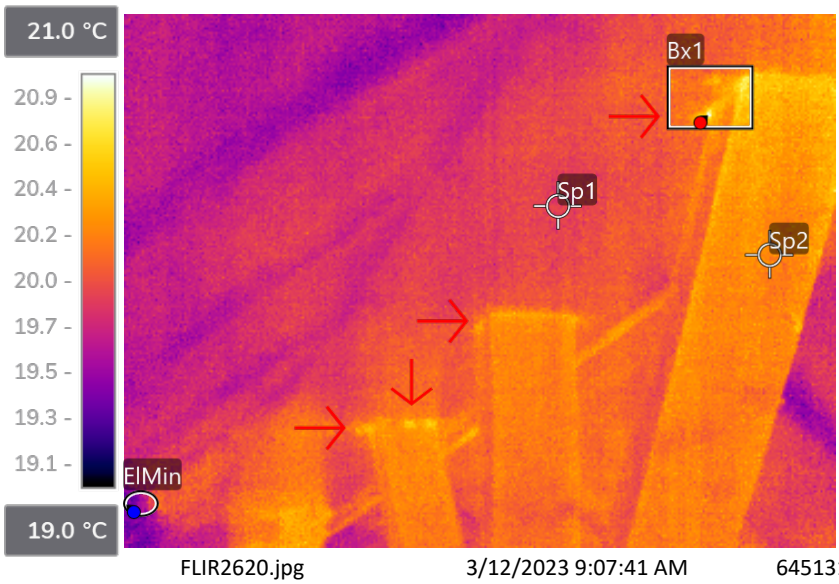
File name	FLIR2619.jpg
File size	500 KB
Width	320
Height	240
Minimum temp.	19.1 °C
Maximum temp.	21.1 °C





Note

Note	





FLIR2620.jpg 3/12/2023 9:07:41 AM 64513171

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

Parameters

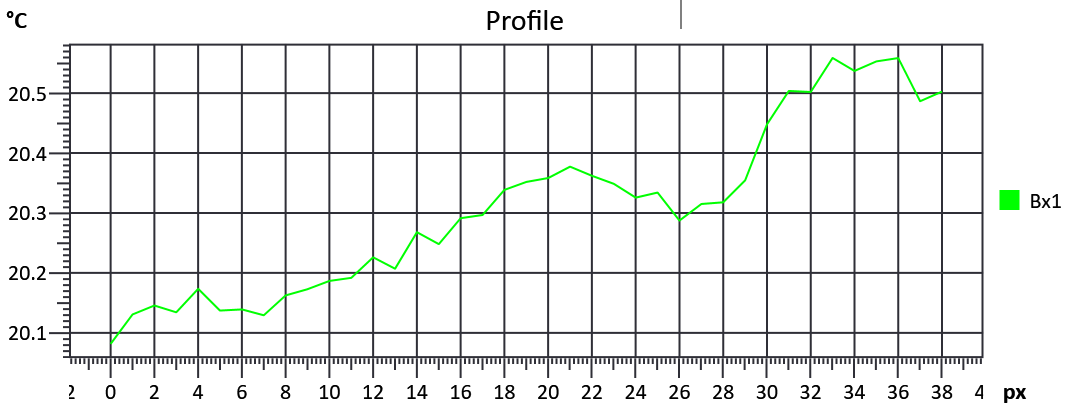
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Sp1	19.9 °C
Sp2	20.2 °C
ElMin	
Min	19.2 °C
Bx1	
Max	21.0 °C

File information

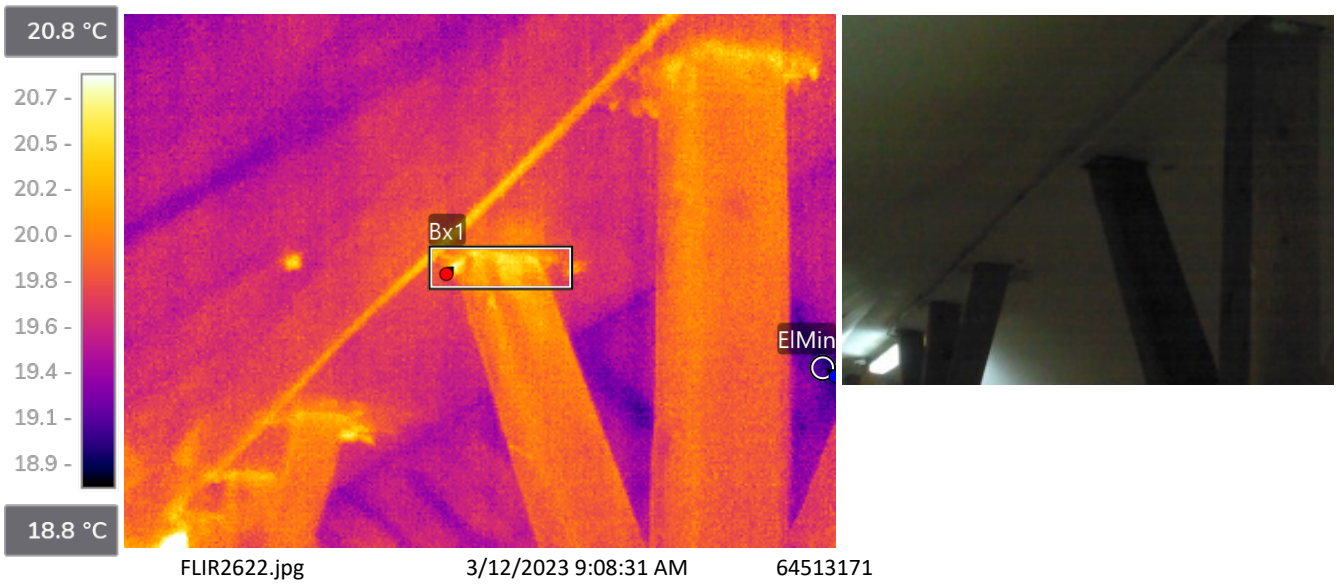
File name	FLIR2620.jpg
File size	661 KB
Width	320
Height	240
Minimum temp.	19.2 °C
Maximum temp.	21.0 °C





Note

Note	Urme de aer cald care scapa pe langa grinzile de la mansarda, acesta in trecere incalzeste si mentine constant calda zona.



FLIR2622.jpg 3/12/2023 9:08:31 AM 64513171

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

Parameters

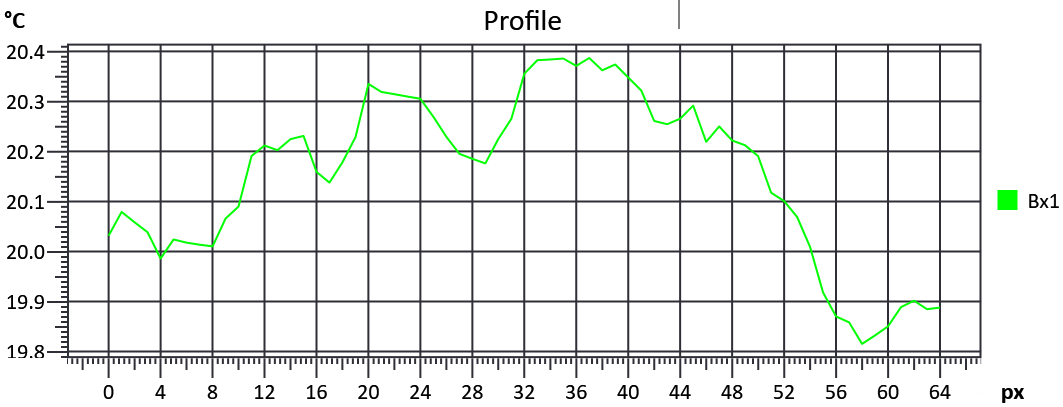
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	18.7 °C
Bx1	
Max	20.8 °C

File information

File name	FLIR2622.jpg
File size	593 KB
Width	320
Height	240
Minimum temp.	18.7 °C
Maximum temp.	22.5 °C

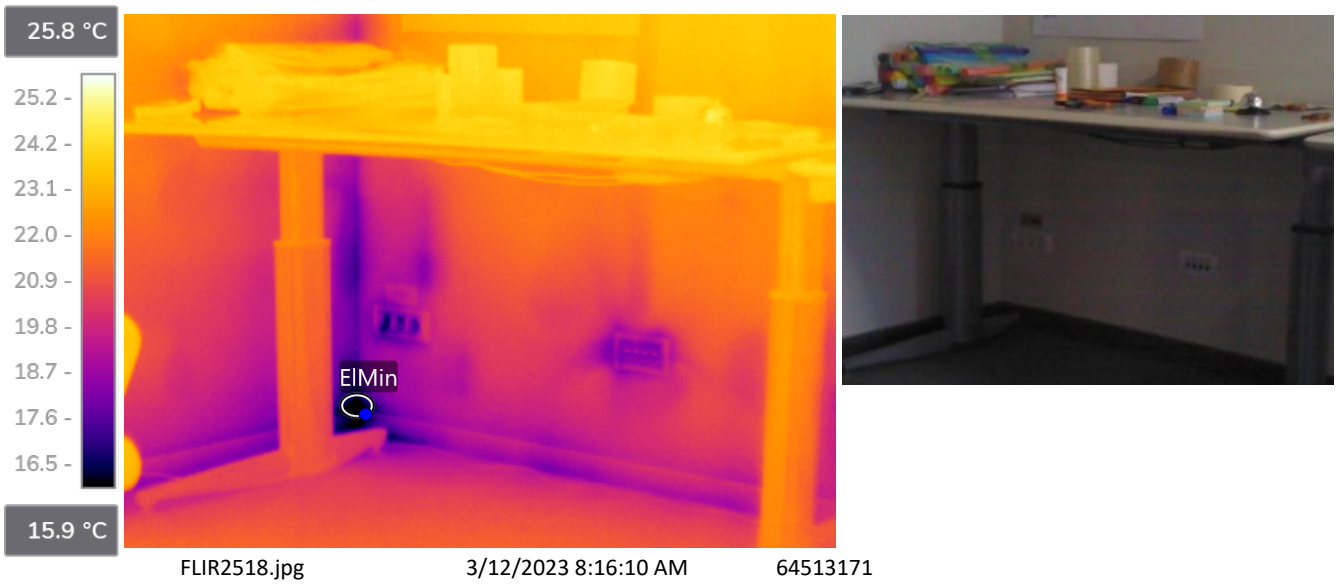




Note

Note	

Punti termice si probleme de termo-izolatie



FLIR2518.jpg 3/12/2023 8:16:10 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	15.1 °C

File information

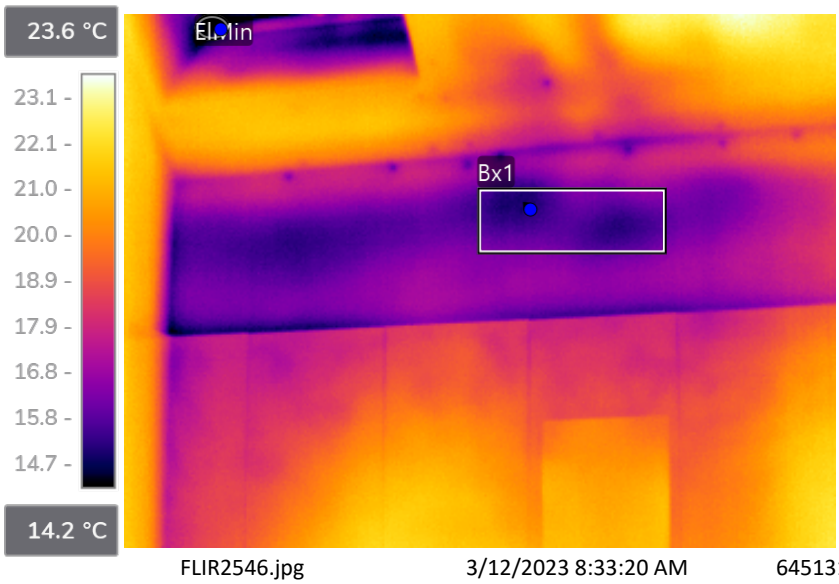
File name	FLIR2518.jpg
File size	541 KB
Width	320
Height	240
Minimum temp.	15.1 °C
Maximum temp.	24.9 °C

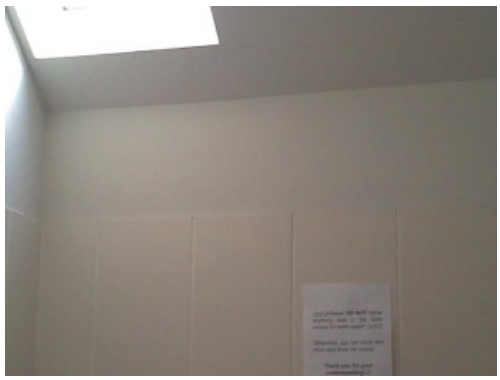
Profile

No plot to display

Note

Note	





FLIR2546.jpg 3/12/2023 8:33:20 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	10.4 °C
Bx1	
Min	14.8 °C

File information

File name	FLIR2546.jpg
File size	533 KB
Width	320
Height	240
Minimum temp.	10.4 °C
Maximum temp.	23.5 °C

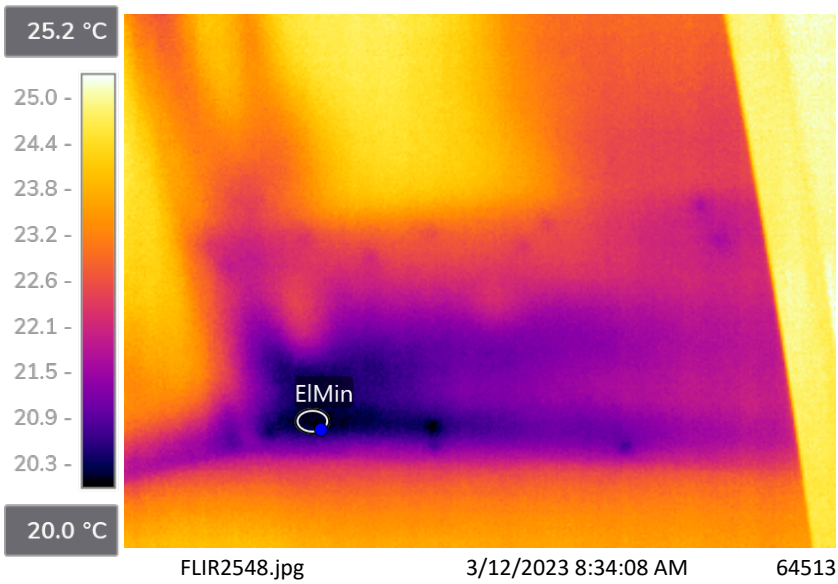
Profile

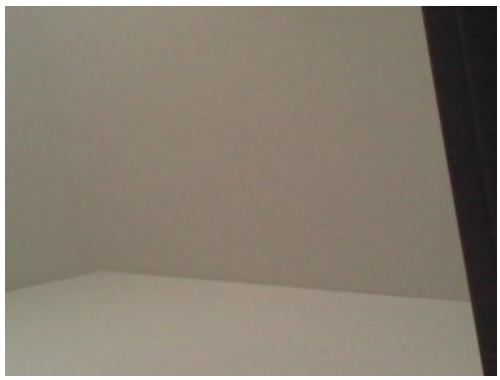
No plot to display



Note

Note	





FLIR2548.jpg 3/12/2023 8:34:08 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

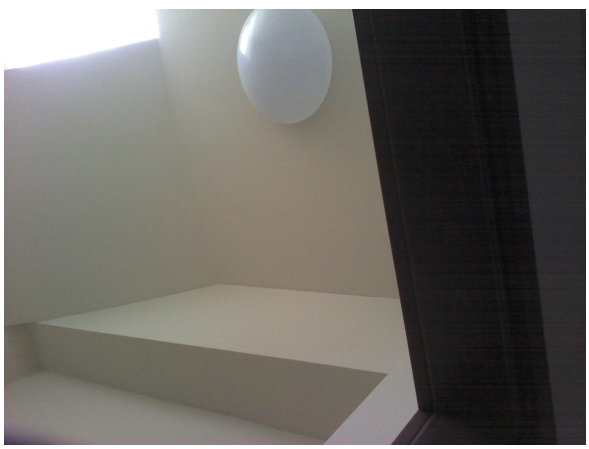
ElMin	
Min	20.0 °C

File information

File name	FLIR2548.jpg
File size	517 KB
Width	320
Height	240
Minimum temp.	20.0 °C
Maximum temp.	25.3 °C

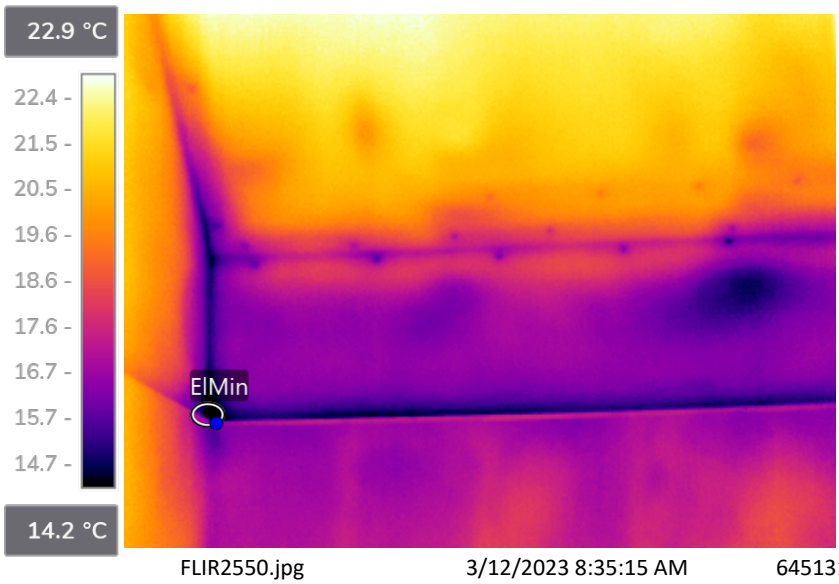
Profile

No plot to display



Note

Note	





FLIR2550.jpg 3/12/2023 8:35:15 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

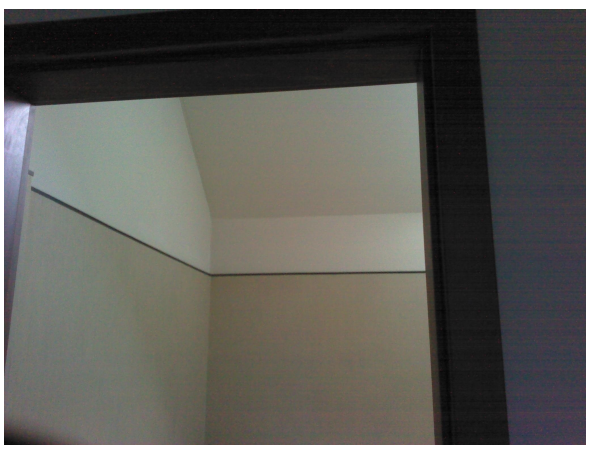
ElMin	
Min	13.4 °C

File information

File name	FLIR2550.jpg
File size	546 KB
Width	320
Height	240
Minimum temp.	13.4 °C
Maximum temp.	22.8 °C

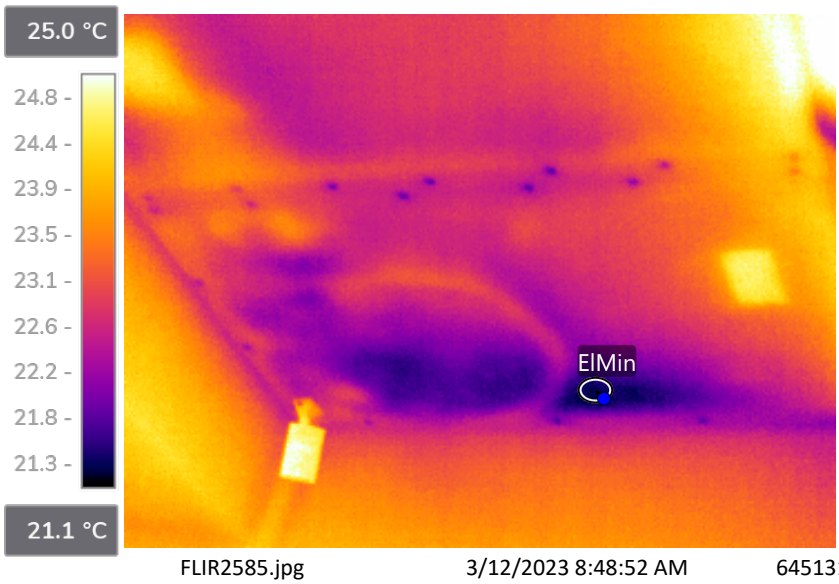
Profile

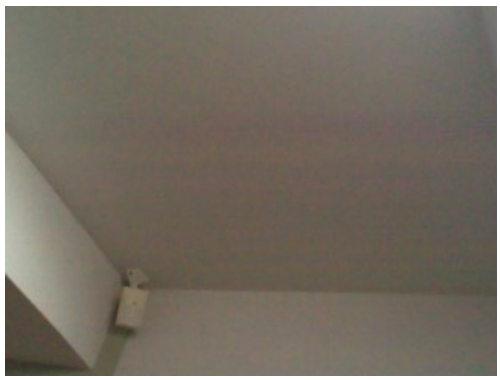
No plot to display



Note

Note	





FLIR2585.jpg 3/12/2023 8:48:52 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	21.2 °C

File information

File name	FLIR2585.jpg
File size	592 KB
Width	320
Height	240
Minimum temp.	21.2 °C
Maximum temp.	25.4 °C

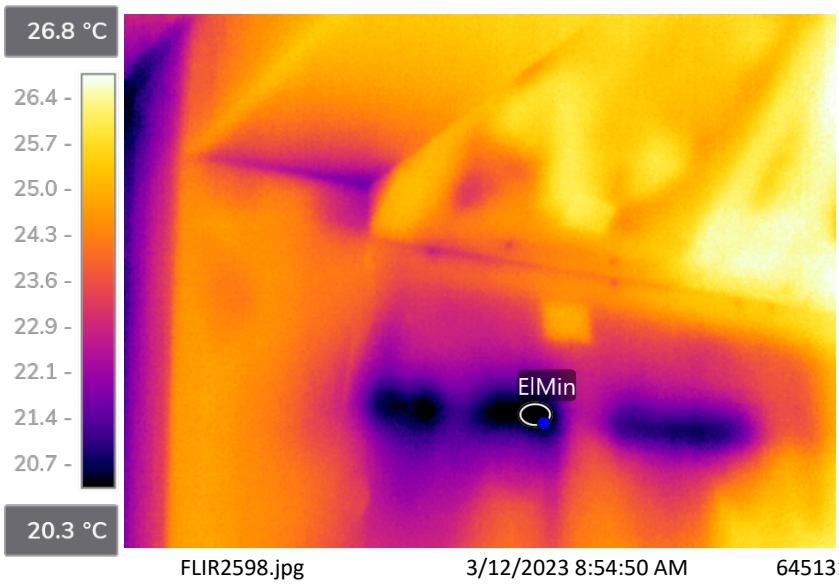
Profile

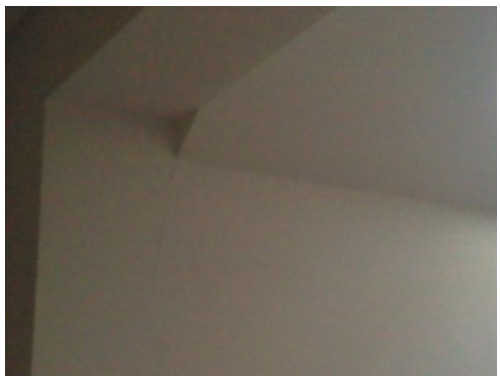
No plot to display



Note

Note	





FLIR2598.jpg 3/12/2023 8:54:50 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	20.0 °C

File information

File name	FLIR2598.jpg
File size	576 KB
Width	320
Height	240
Minimum temp.	20.0 °C
Maximum temp.	26.9 °C

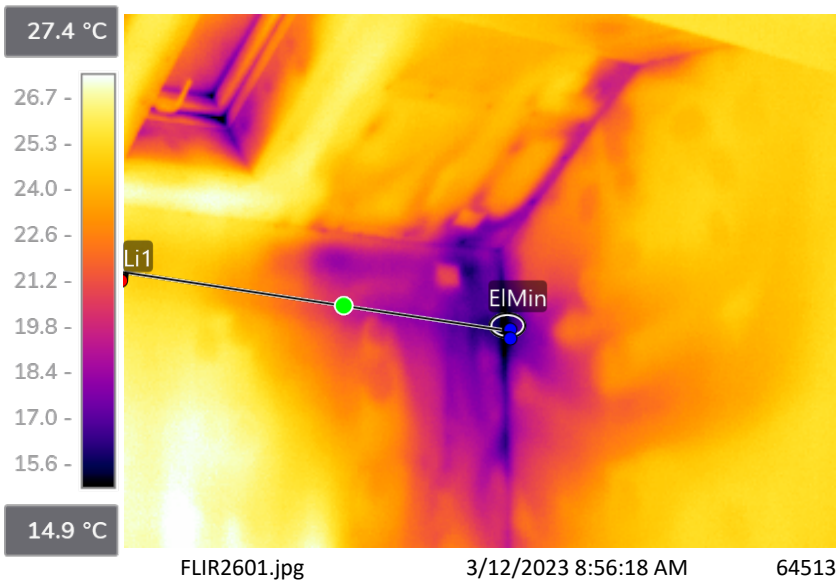
Profile

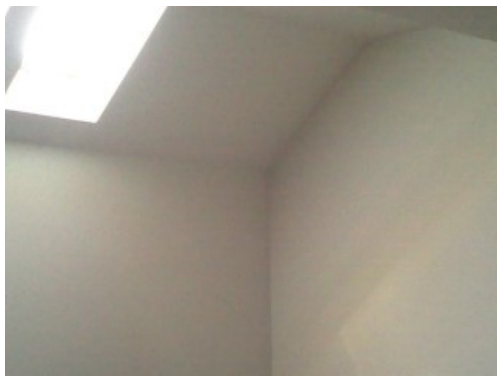
No plot to display



Note

Note	





FLIR2601.jpg 3/12/2023 8:56:18 AM 64513171

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

Parameters

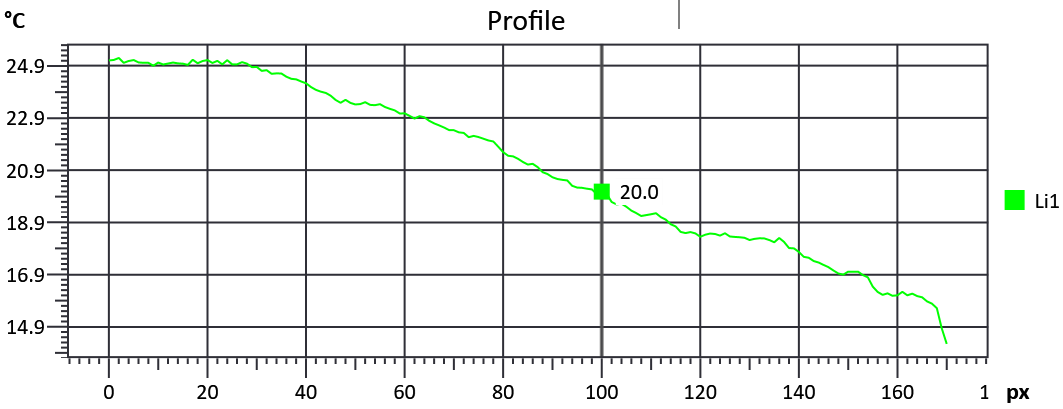
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	14.1 °C
Li1	
Max	25.1 °C
Avg	21.0 °C
Min	14.2 °C

File information

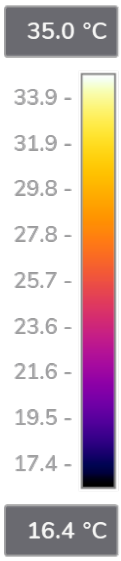
File name	FLIR2601.jpg
File size	642 KB
Width	320
Height	240
Minimum temp.	13.9 °C
Maximum temp.	27.8 °C





Note

Note	Punte termica cauzata de grinda + coltul exterior al cladirii + termoizolatie deficitara pe exterior si lipire cu puncte fara izolatie pe interior.



FLIR2609.jpg 3/12/2023 8:59:02 AM 64513171

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

Parameters

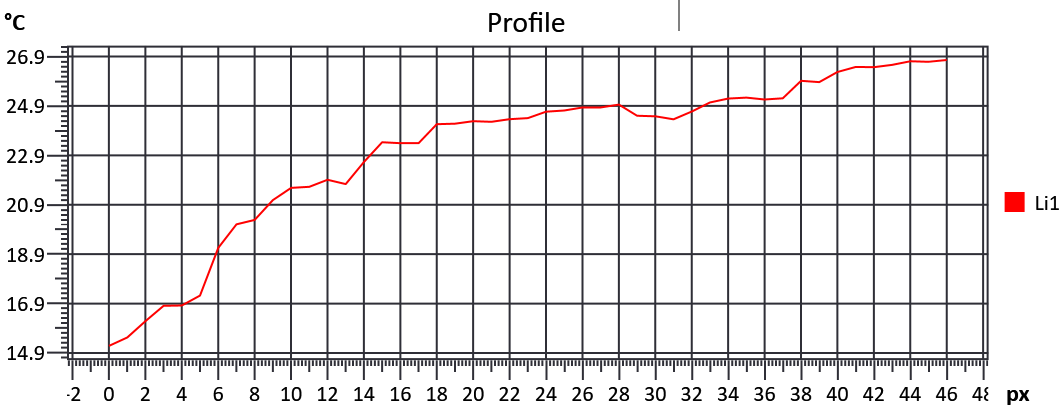
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li1	
Max	26.7 °C
Min	15.1 °C
ElMin	
Min	14.9 °C

File information

File name	FLIR2609.jpg
File size	564 KB
Width	240
Height	320
Minimum temp.	14.9 °C
Maximum temp.	44.5 °C



Note

Note	Punte termica cauzata de grinda + coltul exterior al cladirii + termoizolatie deficitara pe exterior si lipire cu puncte fara izolatie pe interior.



FLIR2610.jpg 3/12/2023 8:59:26 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	24.0 °C
Relative humidity	28.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li1	
Max	25.8 °C
Avg	21.2 °C
Min	15.1 °C
ElMin	
Min	14.8 °C

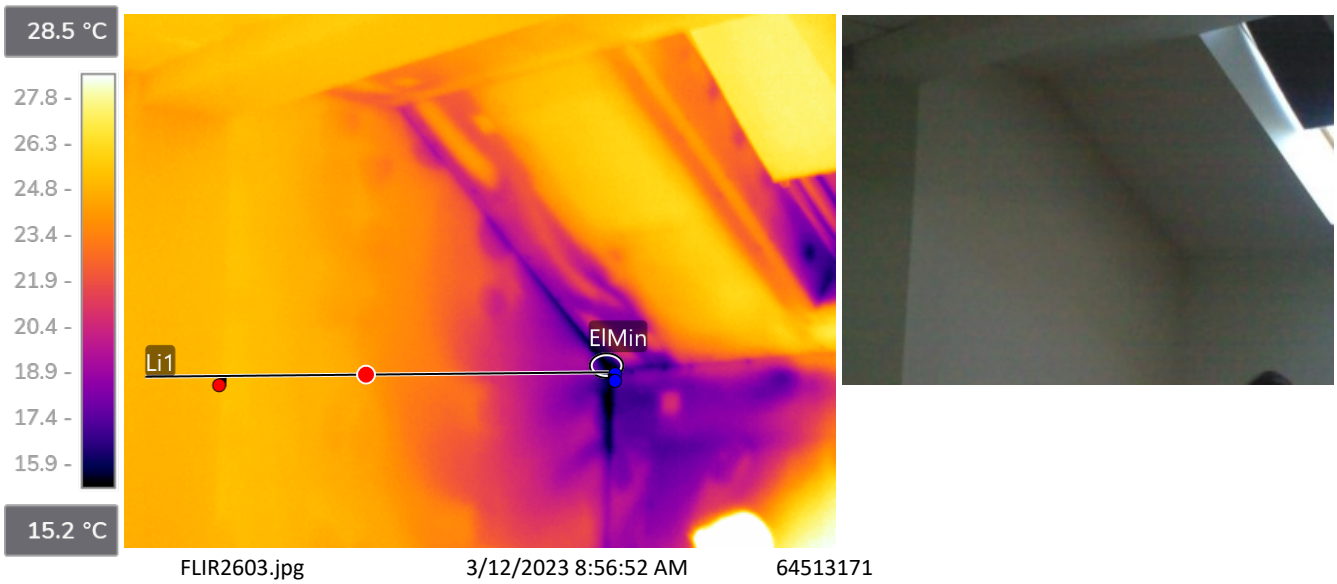
File information

File name	FLIR2610.jpg
File size	578 KB
Width	320
Height	240
Minimum temp.	14.8 °C
Maximum temp.	44.5 °C



Note

Note	Punte termica cauzata de grinda + coltul exterior al cladirii + termoizolatie deficitara pe exterior si lipire cu puncte fara izolatie pe interior.



FLIR2603.jpg 3/12/2023 8:56:52 AM 64513171

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

Parameters

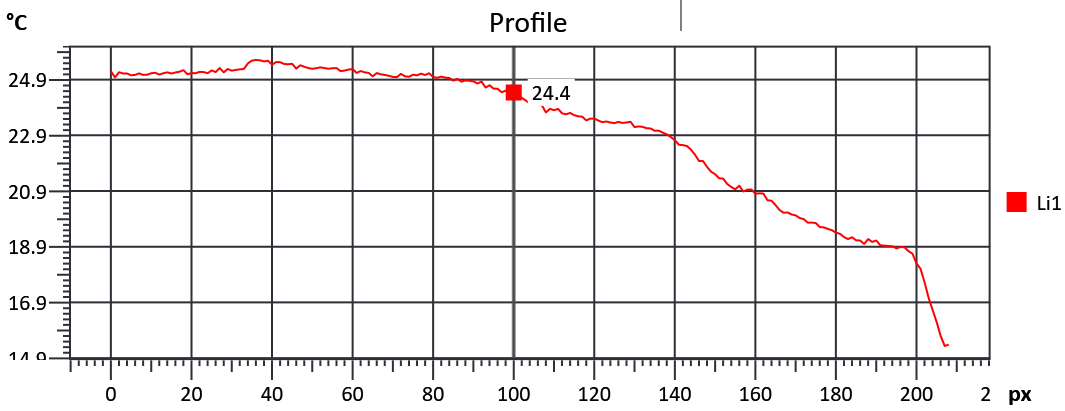
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	14.6 °C
Li1	
Max	25.6 °C
Avg	23.0 °C
Min	15.3 °C

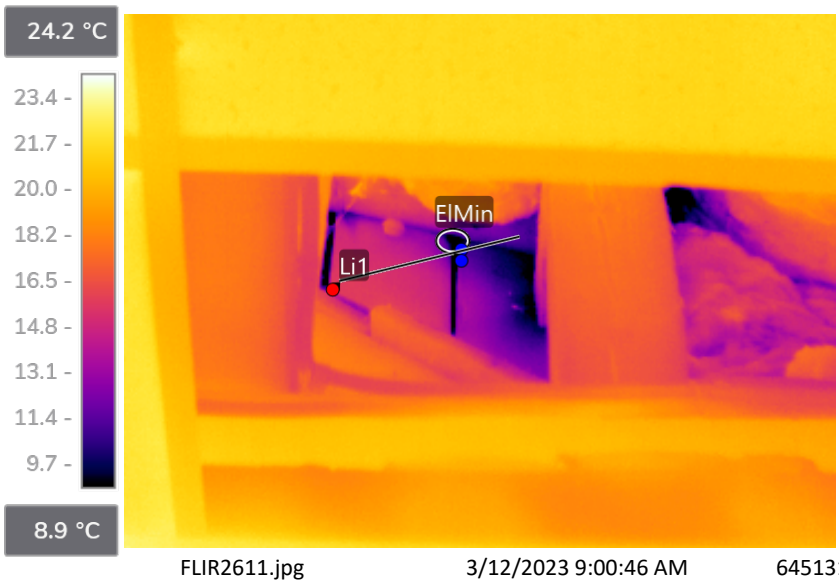
File information

File name	FLIR2603.jpg
File size	582 KB
Width	320
Height	240
Minimum temp.	14.6 °C
Maximum temp.	31.5 °C



Note

Note	Punte termica cauzata de grinda + coltul exterior al cladirii + termoizolatie deficitara pe exterior si lipire cu puncte fara izolatie pe interior.





FLIR2611.jpg 3/12/2023 9:00:46 AM 64513171

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

Parameters

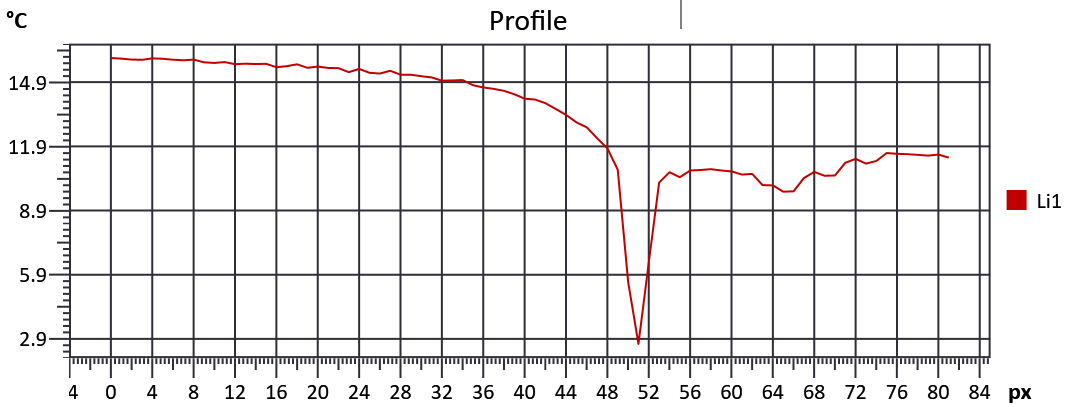
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li1	
Max	16.0 °C
Avg	13.1 °C
Min	2.6 °C
ElMin	
Min	2.2 °C

File information

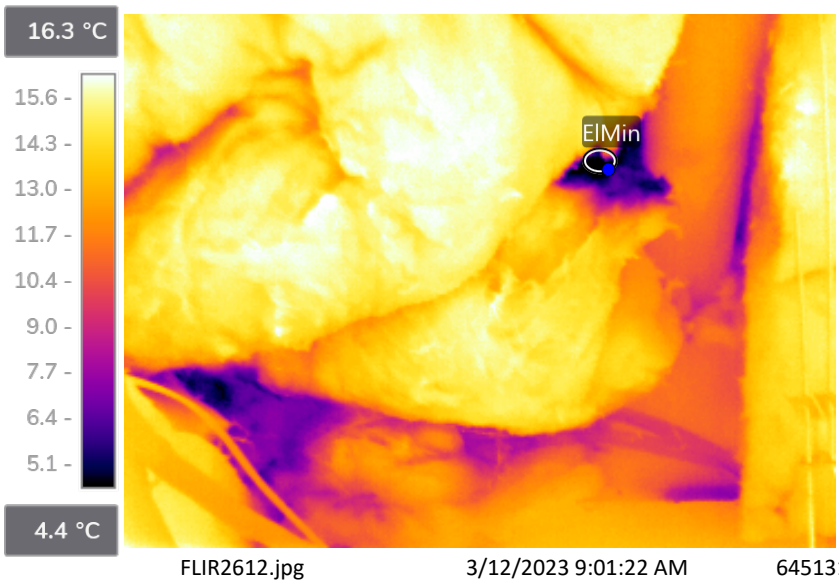
File name	FLIR2611.jpg
File size	514 KB
Width	320
Height	240
Minimum temp.	2.2 °C
Maximum temp.	23.1 °C





Note

Note	Spatii in tavan la etaj cu lipsa totala de izolatie si etanseitate.





FLIR2612.jpg 3/12/2023 9:01:22 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	3.7 °C

File information

File name	FLIR2612.jpg
File size	555 KB
Width	320
Height	240
Minimum temp.	3.7 °C
Maximum temp.	16.7 °C

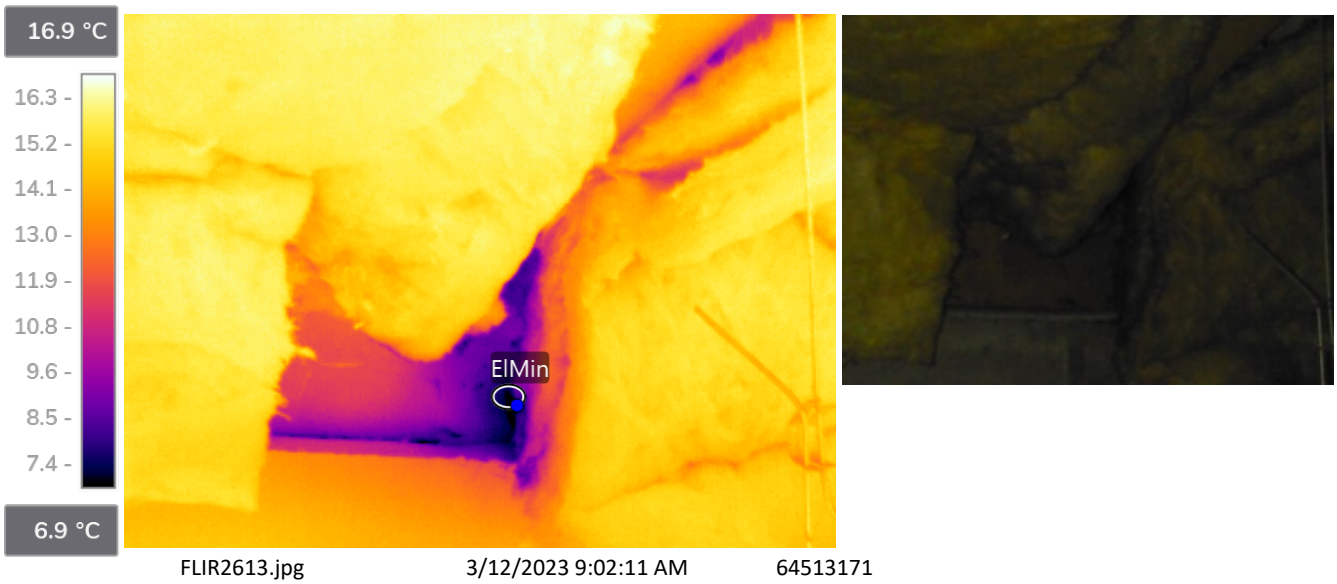
Profile

No plot to display



Note

Note	Zone in care vata este inghesuita sau a cazut.



FLIR2613.jpg 3/12/2023 9:02:11 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	6.2 °C

File information

File name	FLIR2613.jpg
File size	498 KB
Width	320
Height	240
Minimum temp.	6.2 °C
Maximum temp.	16.6 °C

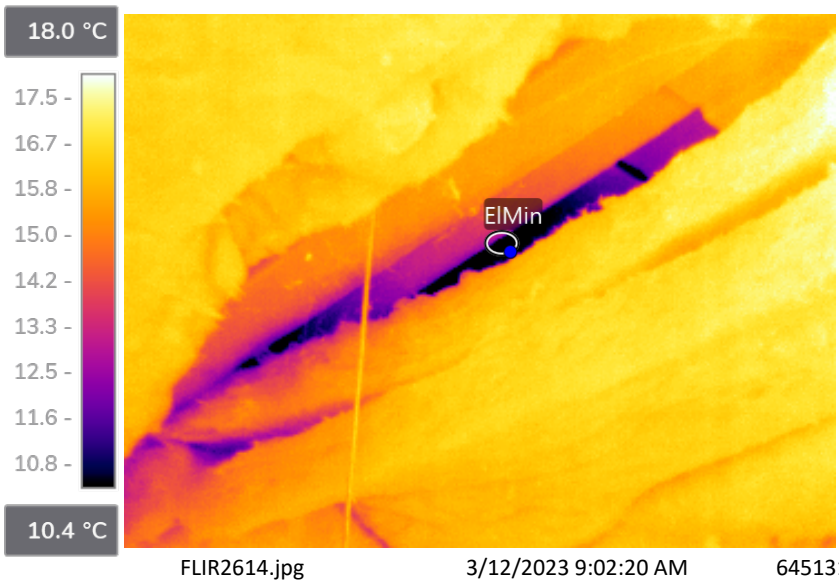
Profile

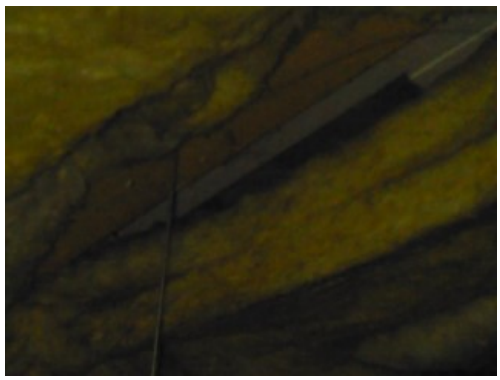
No plot to display



Note

Note	Goluri in termoizolatie.





FLIR2614.jpg 3/12/2023 9:02:20 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	8.7 °C

File information

File name	FLIR2614.jpg
File size	499 KB
Width	320
Height	240
Minimum temp.	8.7 °C
Maximum temp.	18.1 °C

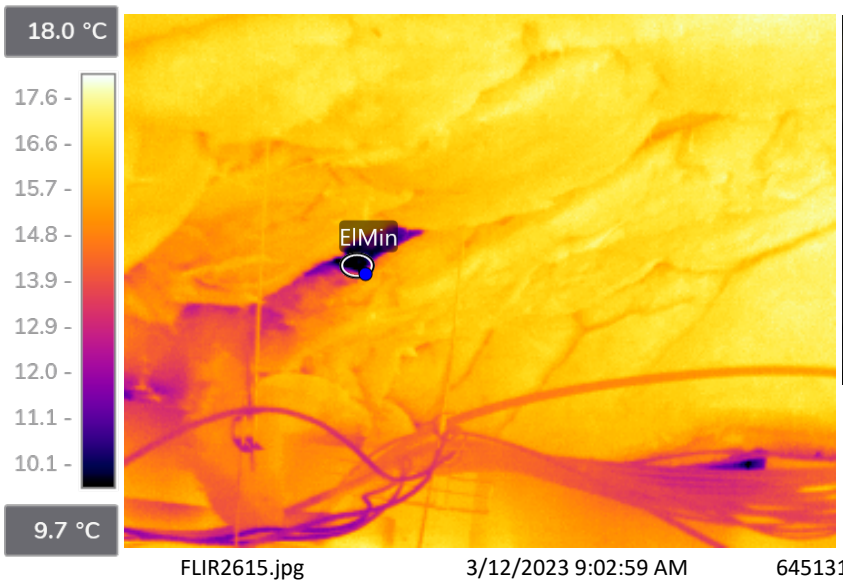
Profile

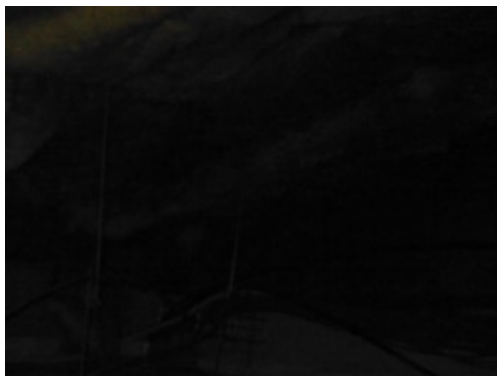
No plot to display



Note

Note	Vata montata necorespunzator





FLIR2615.jpg 3/12/2023 9:02:59 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

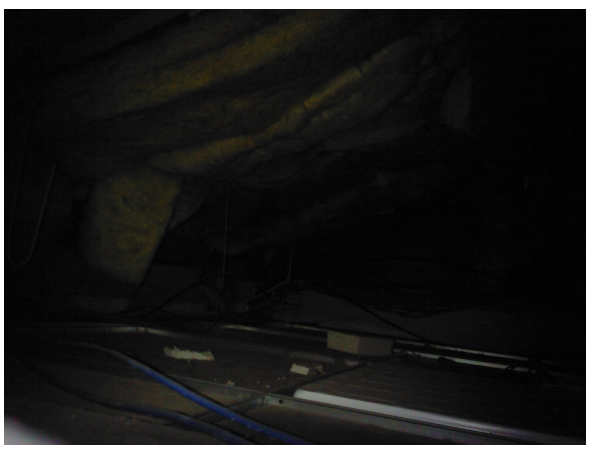
ElMin	
Min	8.9 °C

File information

File name	FLIR2615.jpg
File size	451 KB
Width	320
Height	240
Minimum temp.	8.9 °C
Maximum temp.	17.8 °C

Profile

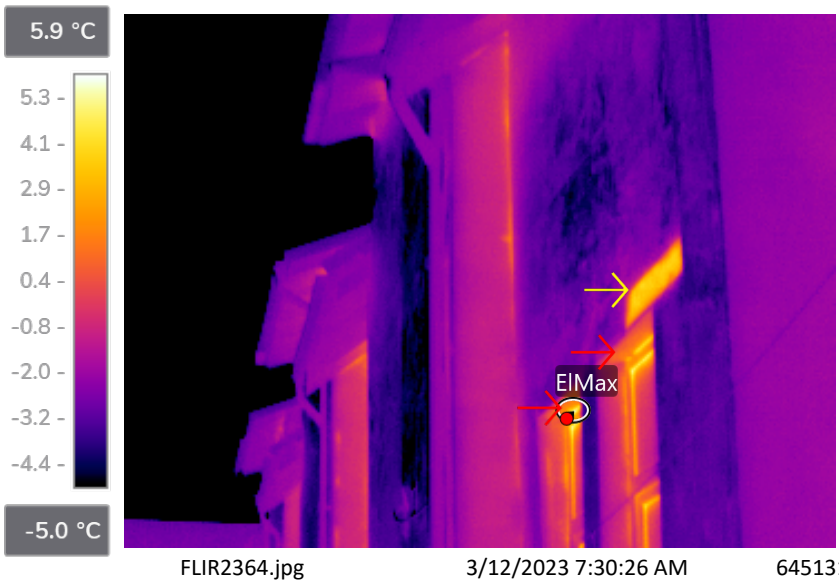
No plot to display

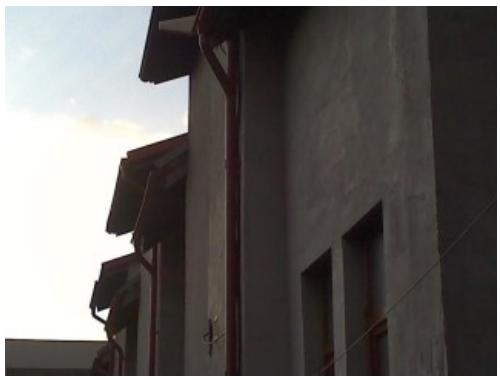


Note

Note	Goluri in termoizolatie

Usi si ferestre





FLIR2364.jpg 3/12/2023 7:30:26 AM 64513171

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

Parameters

Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMax	
Max	5.6 °C

File information

File name	FLIR2364.jpg
File size	511 KB
Width	320
Height	240
Minimum temp.	-40.0 °C
Maximum temp.	5.6 °C

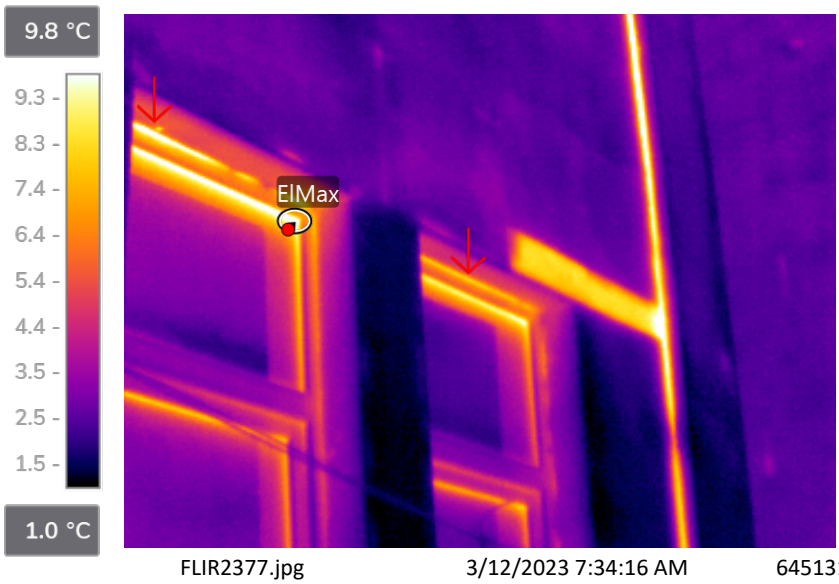
Profile

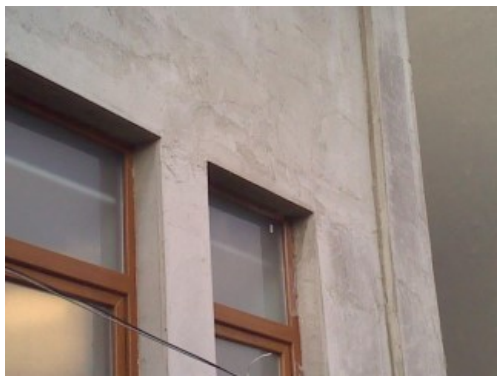
No plot to display



Note

Note	Urme de tranzit de aer cald pe langa tocul ferestrelor si zidarie. Punte termica deasupra ferestrei de la bucatarie.





FLIR2377.jpg 3/12/2023 7:34:16 AM 64513171

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

Parameters

Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMax	
Max	11.2 °C

File information

File name	FLIR2377.jpg
File size	834 KB
Width	320
Height	240
Minimum temp.	0.8 °C
Maximum temp.	11.2 °C

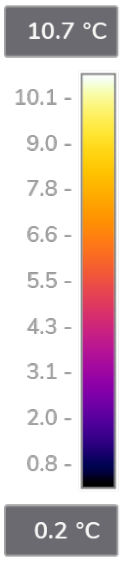
Profile

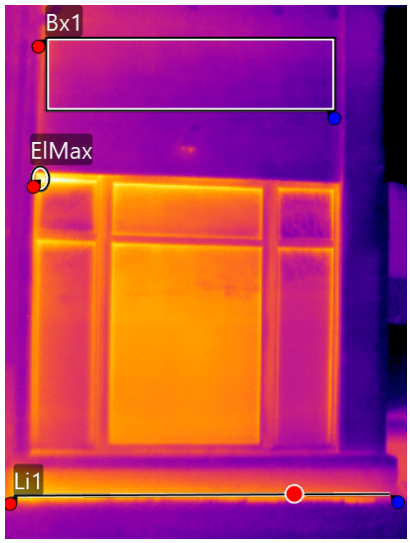
No plot to display



Note

Note	







FLIR2396.jpg 3/12/2023 7:38:06 AM 64513171

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

Parameters

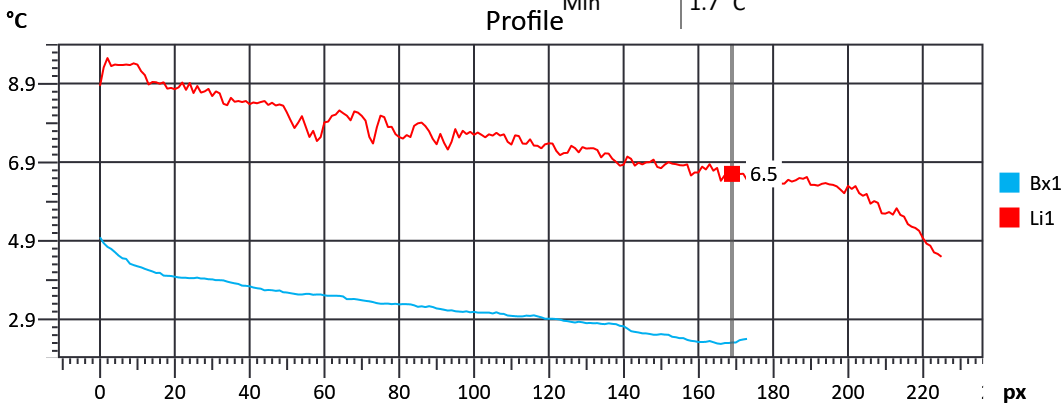
Emissivity	0.95
Distance	10.00 m
Reflected temp.	0.0 °C
Atmospheric	-1.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMax	
Max	11.0 °C
Li1	
Max	9.5 °C
Avg	7.3 °C
Min	4.4 °C
Bx1	
Max	5.8 °C
Avg	3.2 °C
Min	1.7 °C

File information

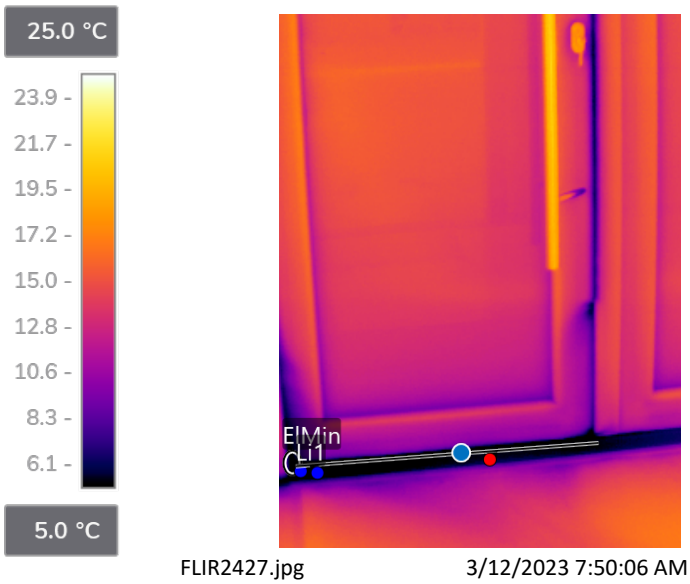
File name	FLIR2396.jpg
File size	1128 KB
Width	240
Height	320
Minimum temp.	-34.7 °C
Maximum temp.	11.0 °C





Note

Note	Fundatie calda, fereastra cu peirderi prin neetanseitate si anvelopa cu gradient de temperatura.



FLIR2427.jpg 3/12/2023 7:50:06 AM 64513171

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

Parameters

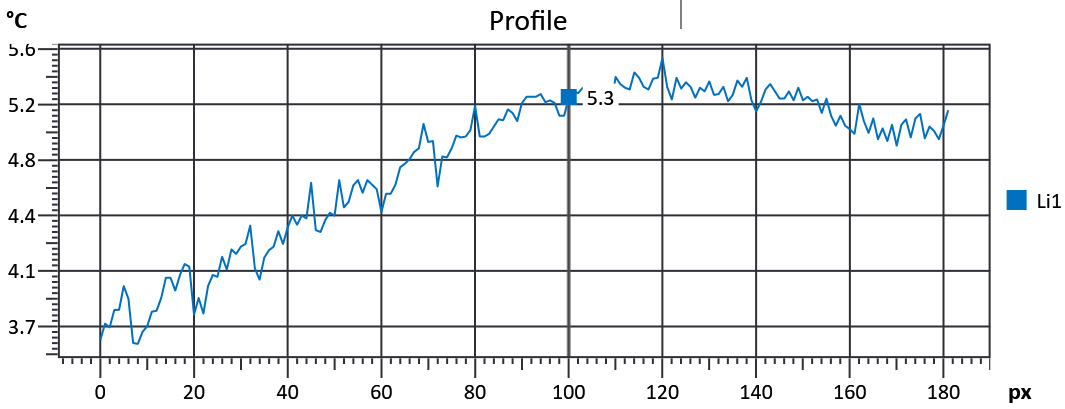
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

Li1	
Max	5.6 °C
Avg	4.8 °C
Min	3.5 °C
ElMin	
Min	2.8 °C

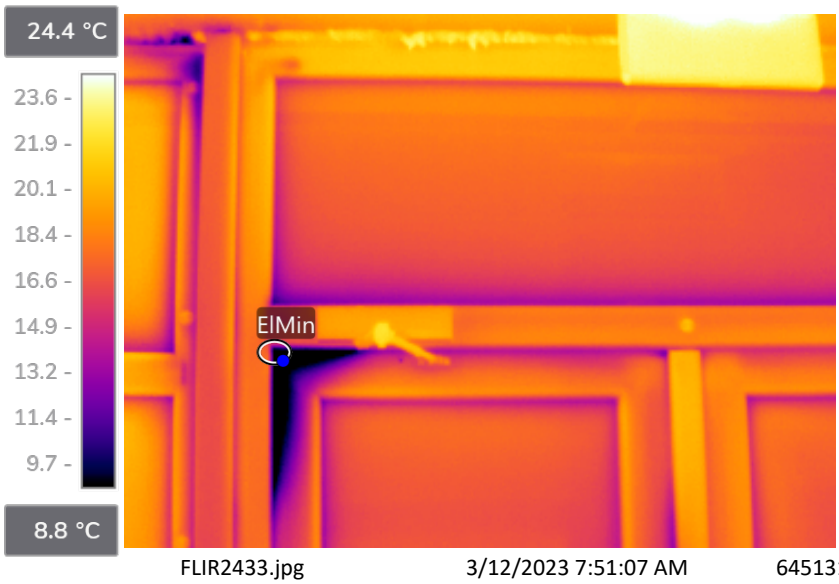
File information

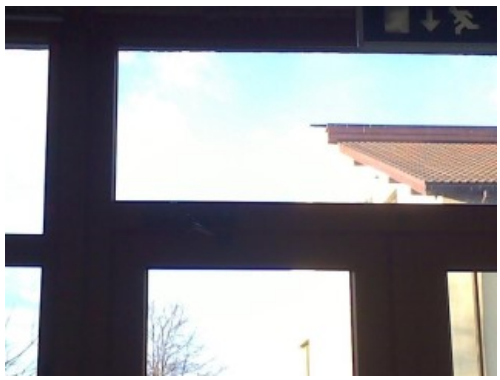
File name	FLIR2427.jpg
File size	732 KB
Width	240
Height	320
Minimum temp.	2.8 °C
Maximum temp.	21.5 °C



Note

Note	Infiltratii de aer rece pe la baza usi





FLIR2433.jpg 3/12/2023 7:51:07 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

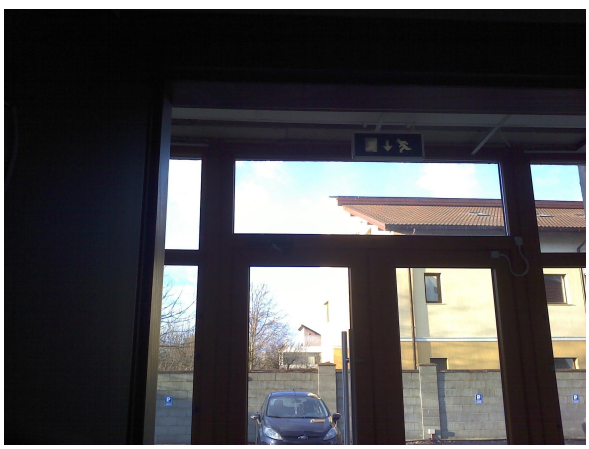
ElMin	
Min	5.1 °C

File information

File name	FLIR2433.jpg
File size	621 KB
Width	320
Height	240
Minimum temp.	5.1 °C
Maximum temp.	26.3 °C

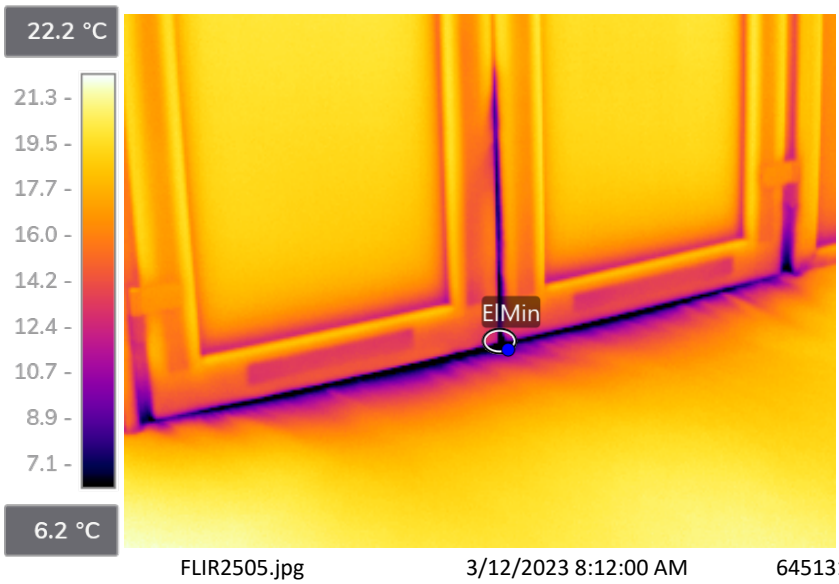
Profile

No plot to display



Note

Note	Usa cu probleme de etanseizare.





FLIR2505.jpg 3/12/2023 8:12:00 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	3.1 °C

File information

File name	FLIR2505.jpg
File size	861 KB
Width	320
Height	240
Minimum temp.	3.1 °C
Maximum temp.	21.8 °C

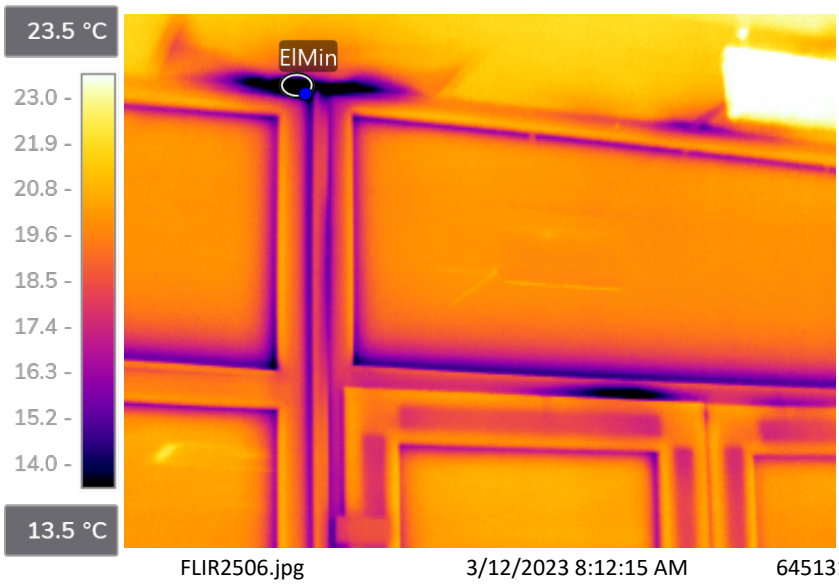
Profile

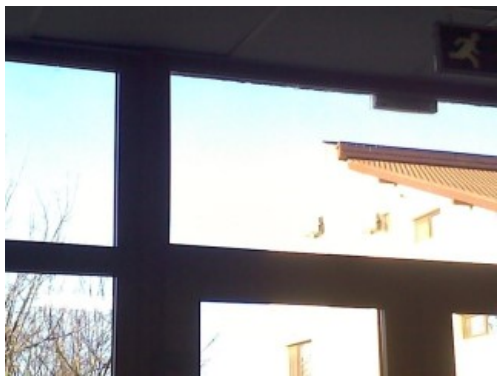
No plot to display



Note

Note	Usa cu probleme de etanseizare





FLIR2506.jpg 3/12/2023 8:12:15 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	10.0 °C

File information

File name	FLIR2506.jpg
File size	724 KB
Width	320
Height	240
Minimum temp.	10.0 °C
Maximum temp.	27.3 °C

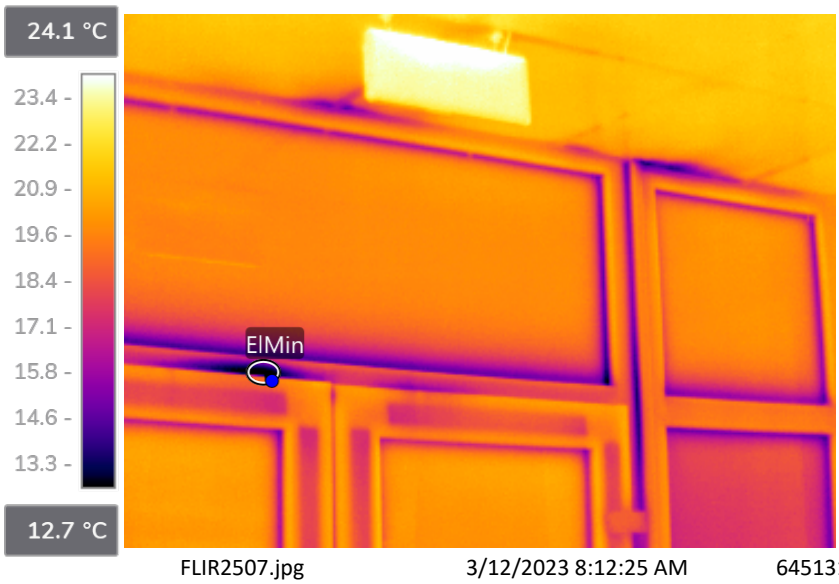
Profile

No plot to display



Note

Note	Tamplarie si garnitura cu defecte





FLIR2507.jpg 3/12/2023 8:12:25 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	12.0 °C

File information

File name	FLIR2507.jpg
File size	721 KB
Width	320
Height	240
Minimum temp.	12.0 °C
Maximum temp.	27.4 °C

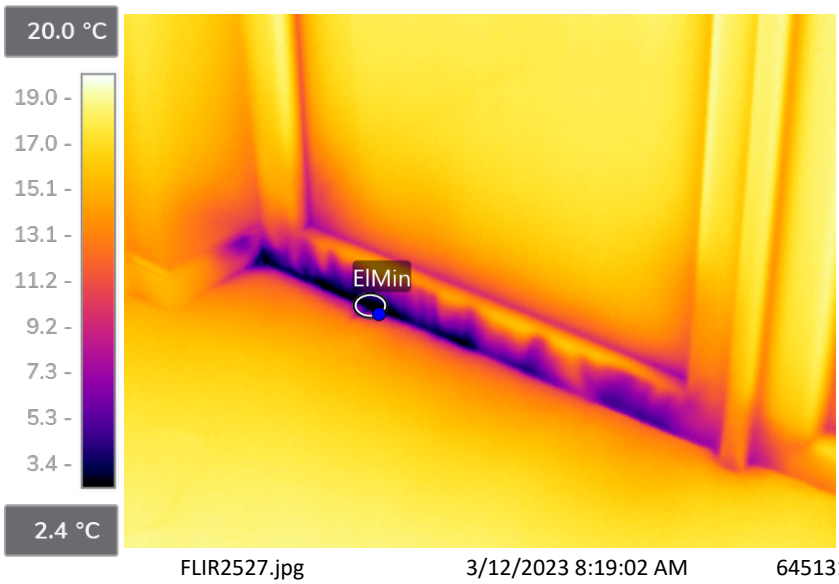
Profile

No plot to display



Note

Note	





FLIR2527.jpg 3/12/2023 8:19:02 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

ElMin	
Min	1.6 °C

File information

File name	FLIR2527.jpg
File size	1166 KB
Width	320
Height	240
Minimum temp.	1.6 °C
Maximum temp.	19.2 °C

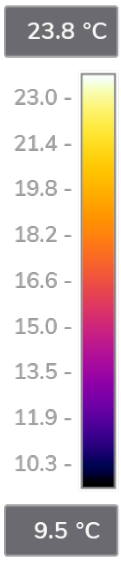
Profile

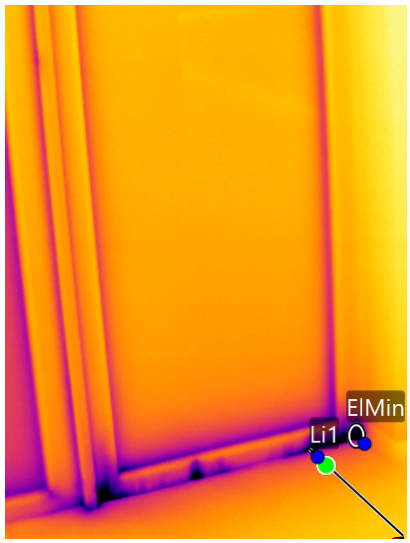
No plot to display



Note

Note	Lipsa etanseitate. Infiltratii de aer rece pe la baza ferestrei de la parter.







FLIR2530.jpg 3/12/2023 8:20:08 AM 64513171

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

Parameters

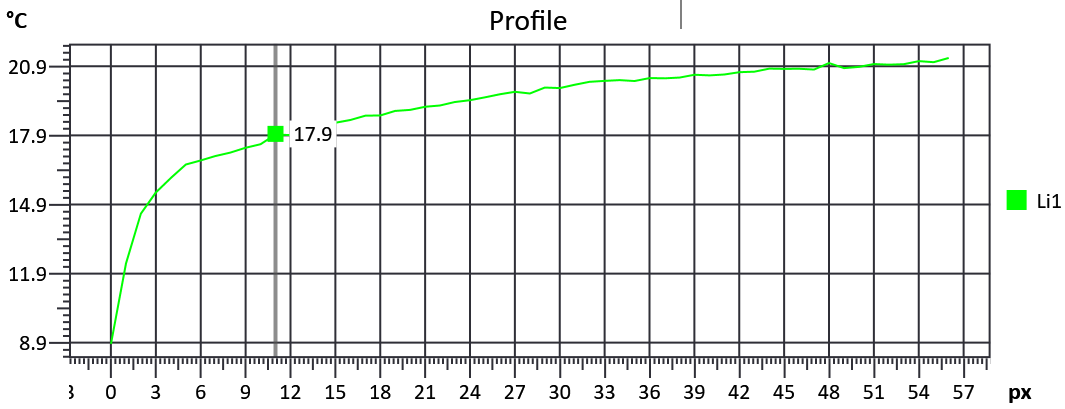
Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

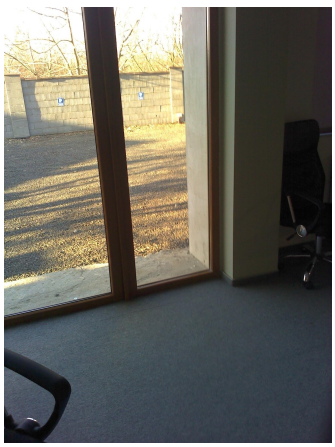
Measurements

Li1	
Max	21.2 °C
Avg	19.0 °C
Min	8.8 °C
ElMin	
Min	6.4 °C

File information

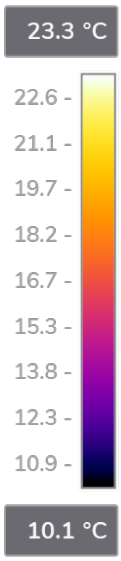
File name	FLIR2530.jpg
File size	832 KB
Width	240
Height	320
Minimum temp.	6.4 °C
Maximum temp.	22.9 °C

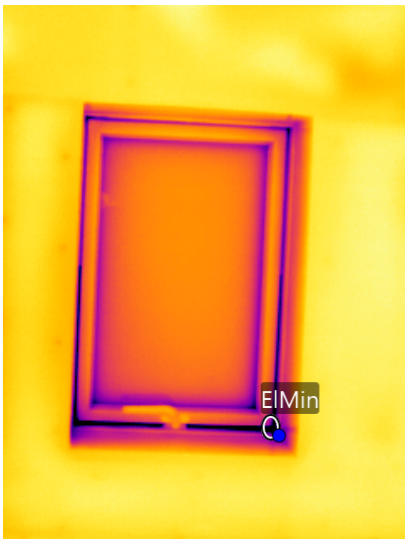


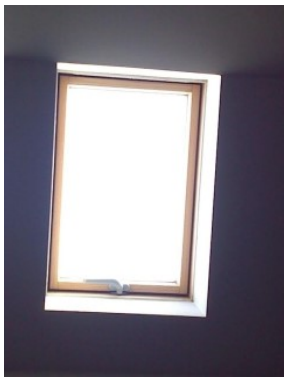


Note

Note	Lipsa etanseitate. Infiltratii de aer rece pe la baza ferestrei de la parter.







FLIR2572.jpg 3/12/2023 8:44:24 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

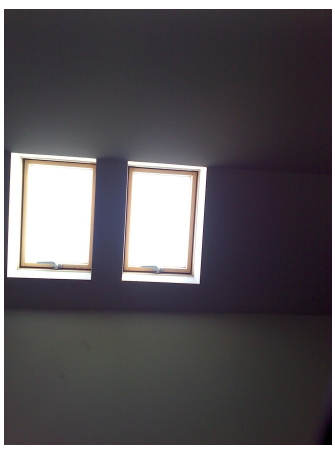
ElMin	
Min	5.9 °C

File information

File name	FLIR2572.jpg
File size	460 KB
Width	240
Height	320
Minimum temp.	5.9 °C
Maximum temp.	22.5 °C

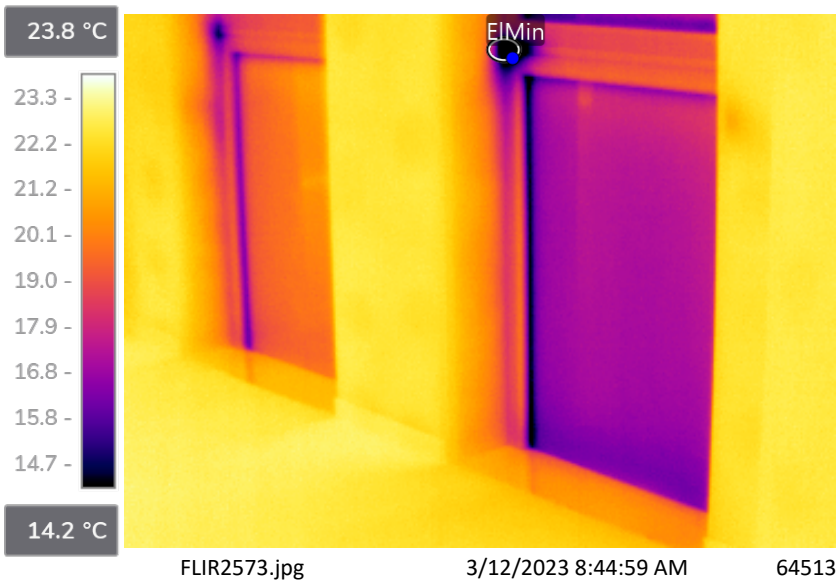
Profile

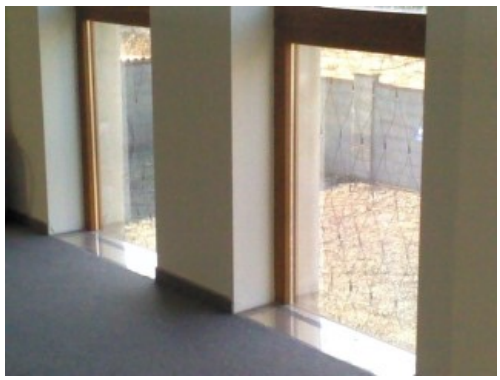
No plot to display



Note

Note	Fereastra velux cu infiltratii





FLIR2573.jpg 3/12/2023 8:44:59 AM 64513171

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

Parameters

Emissivity	0.95
Distance	2.00 m
Reflected temp.	21.0 °C
Atmospheric	23.0 °C
Relative humidity	55.0%
Ext. optics temp.	20.0 °C
Ext. optics trans.	1.00

Measurements

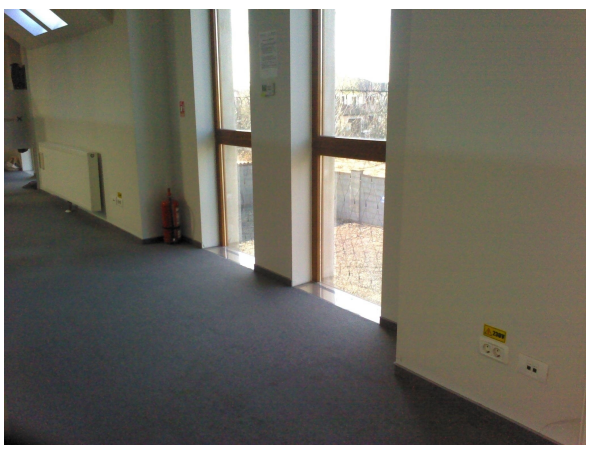
ElMin	
Min	10.2 °C

File information

File name	FLIR2573.jpg
File size	638 KB
Width	320
Height	240
Minimum temp.	10.2 °C
Maximum temp.	23.2 °C

Profile

No plot to display



Note

Note	Tamplarie cu defecte

Thermography Report



ROMÂNIA

MINISTERUL MUNCII ŞI JUSTIŢIEI SOCIALE

MINISTERUL EDUCAŢIEI NAŢIONALE

SERIA K Nº 00044291

CERTIFICAT
DE ABSOLVIRE

Dl/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 Reşiţa judeţul/sectorul Caraş-Severin fiul/fiica lui Ion şi al (a) Maria a participat în perioada 05.06.2021 - 10.06.2021 la programul de ~~iniţiere/perfecţionare~~/specializare cu durata de 48 ore pentru ocupaţia (competenţe comune) Operator echipamente de termografie

cod COR 313908 organizat de Infrared Training & Consulting Center cu sediul în localitatea Otopeni judeţul Ilfov înmatriculat în RNFFPA cu nr. IF/456/23/275/26.10.2017 şi a promovat examenul de absolvire în anul 2021 luna 06 ziua 10

DIRECTOR L.Ş. Secretar PREŞEDINTE *)

Nr. 309 Data eliberării: ...

Semnătură absolvent

*) Directorul furnizorului de formare
**) Preşedintele comisiei de examinare

ROMÂNIA

MINISTERUL MUNCII ŞI JUSTIŢIEI SOCIALE

MINISTERUL EDUCAŢIEI NAŢIONALE

SERIA K Nº 00044291

TS

CERTIFICAT
DE ABSOLVIRE

Dl/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 Reşiţa judeţul/sectorul Caraş- fiul (fiica) lui Ion şi al (a) Maria a participat în perioada 05.06.2021 - 10.06.2021 la programul de initiere / perfectionare / specializare cu durata de 48 ore, pentru ocupaţia (competenţe comune) Operator echipamente de termografie cod COR 313908 organizat de Infrared Training & Consulting Center SRL cu sediul în localitatea Otopeni judeţul Ilfov înmatriculat în Registrul naţional al furnizorilor de formare profesională autorizaţi cu nr. IF/456/23/275/26.10.2017 şi 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 şi completările ulterioare şi însoţit de suplimentul descriptiv al certificatului.

L.Ş. DIRECTOR Secretar, PREŞEDINTE

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