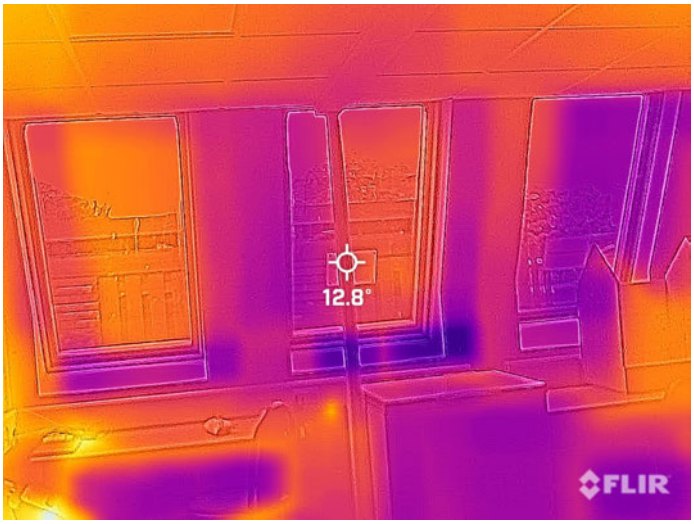
Essex County Council

Thermal Camera Images

[redacted] School

20th February 2023

Essex County Council



THERMAL IMAGE NOTE

This thermal image shows heat loss through the windows. It would be a good idea to add draught strips here to fill the gap between the windows and then frame.

Closing blinds/curtains will also improve heat retention. Consider upgrading to thermal or insulated blinds. They have a close fit around the window and most are designed to trap a layer of air inside the blind, so the blind works in a similar way to double glazing. This makes them great for preventing heat loss, especially when closed overnight.

TEMPERATURES

Spot 1	12.8 °C

PARAMETERS

Emissivity	0.95
Distance	1 m
Reflected Temperature	22 °C
Relative Humidity	50 %
Atmospheric Temperature	20 °C
Atmospheric Transmission	0.99
External Optics Temperature	25 °C
External Optics Transmission	0.8

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THERMAL IMAGE NOTE

This thermal image shows heat loss through the door. It would be a good idea to add draught strips/door seals to this area, as well as similar areas throughout the school.

TEMPERATURES

Spot 1	12 °C

PARAMETERS

Emissivity	0.95
Distance	1 m
Reflected Temperature	22 °C
Relative Humidity	50 %
Atmospheric Temperature	20 °C
Atmospheric Transmission	0.99
External Optics Temperature	25 °C
External Optics Transmission	0.8

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THERMAL IMAGE NOTE

This thermal image shows heat loss through the openable windows. It would be a good idea to add draught strips here to fill the gap between the windows and then frame.

TEMPERATURES

Spot 1	12.6 °C

PARAMETERS

Emissivity	0.95
Distance	1 m
Reflected Temperature	22 °C
Relative Humidity	50 %
Atmospheric Temperature	20 °C
Atmospheric Transmission	0.99
External Optics Temperature	25 °C
External Optics Transmission	0.8

Essex County Council

THERMAL IMAGE NOTE

This thermal image shows heat loss through the openable windows. It would be a good idea to add draught strips here to fill the gap between the windows and then frame.

TEMPERATURES

Spot 1	11.7 °C

PARAMETERS

Emissivity	0.95
Distance	1 m
Reflected Temperature	22 °C
Relative Humidity	50 %
Atmospheric Temperature	20 °C
Atmospheric Transmission	0.99
External Optics Temperature	25 °C
External Optics Transmission	0.8

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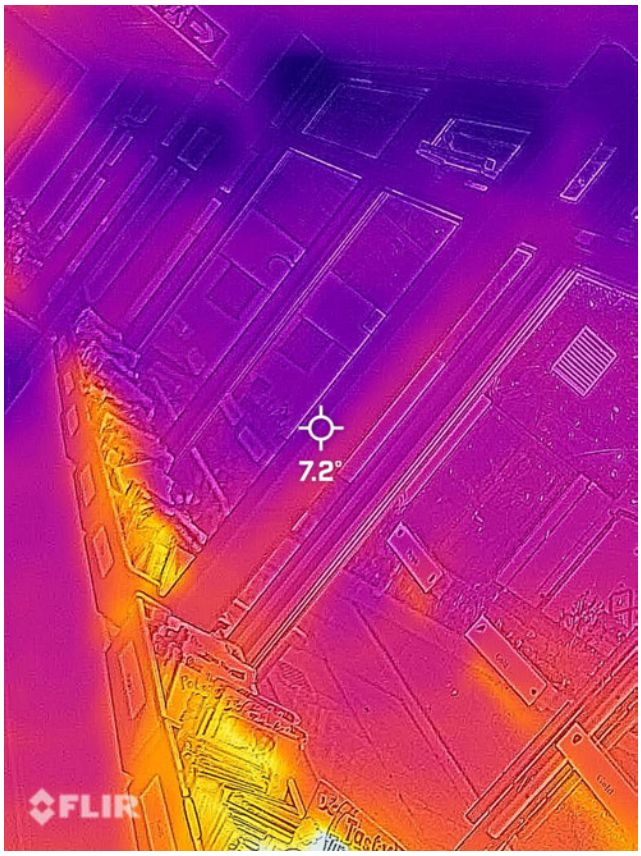

THERMAL IMAGE NOTE

This thermal image shows heat loss through the windows. It would be a good idea to add draught strips here to fill the gap between the windows and then frame.

Closing blinds/curtains will also improve heat retention. Consider upgrading to thermal or insulated blinds. They have a close fit around the window and most are designed to trap a layer of air inside the blind, so the blind works in a similar way to double glazing. This makes them great for preventing heat loss, especially when closed overnight.

TEMPERATURES

Spot 1	7.2 °C

PARAMETERS

Emissivity	0.95
Distance	1 m
Reflected Temperature	22 °C
Relative Humidity	50 %
Atmospheric Temperature	20 °C
Atmospheric Transmission	0.99
External Optics Temperature	25 °C
External Optics Transmission	0.8

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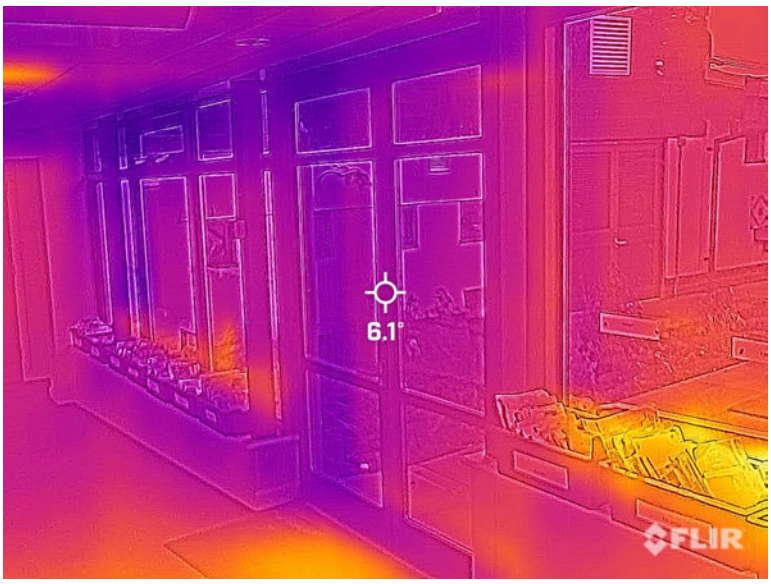

THERMAL IMAGE NOTE

This thermal image shows heat loss through the door. It would be a good idea to add draught strips/door seals to this area, as well as similar areas throughout the school.

TEMPERATURES

Spot 1	6.1 °C

PARAMETERS

Emissivity	0.95
Distance	1 m
Reflected Temperature	22 °C
Relative Humidity	50 %
Atmospheric Temperature	20 °C
Atmospheric Transmission	0.99
External Optics Temperature	25 °C
External Optics Transmission	0.8

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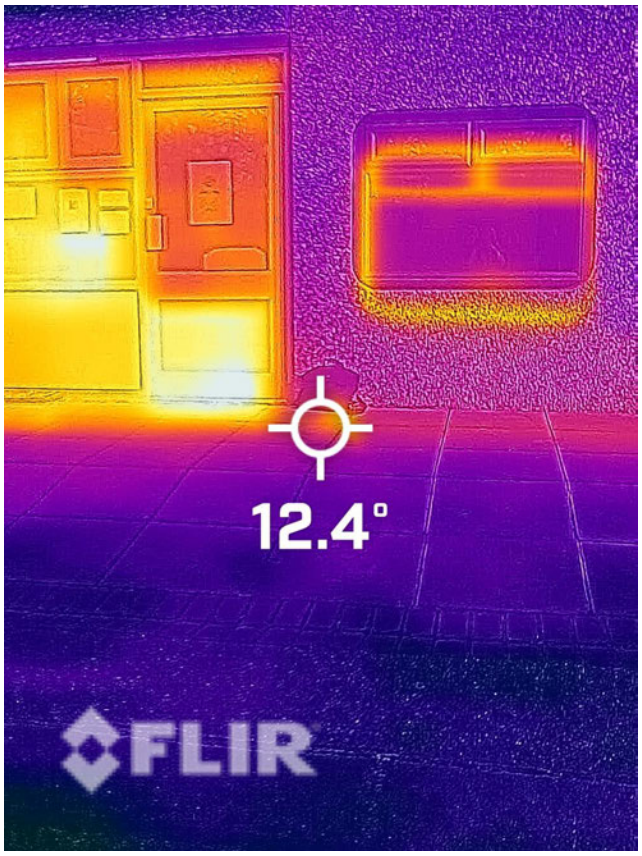

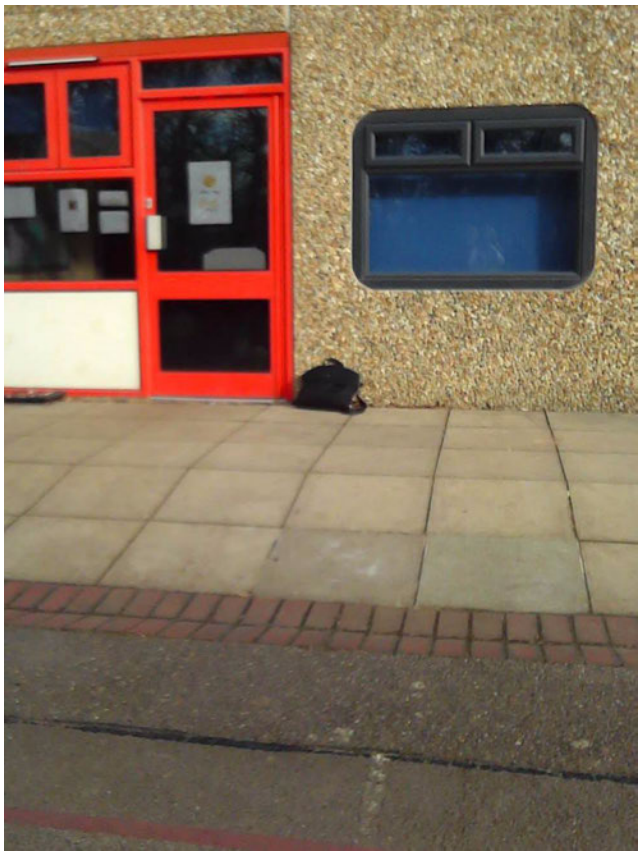

THERMAL IMAGE NOTE

This thermal image shows heat loss through the windows and panels.

Install reflective radiator foil behind any radiators in draughty rooms - this will ensure more heat is being reflected into the room and less is escaping through the walls and windows.

TEMPERATURES

Spot 1	12.4 °C

PARAMETERS

Emissivity	0.95
Distance	1 m
Reflected Temperature	22 °C
Relative Humidity	50 %
Atmospheric Temperature	20 °C
Atmospheric Transmission	0.99
External Optics Temperature	25 °C
External Optics Transmission	0.8

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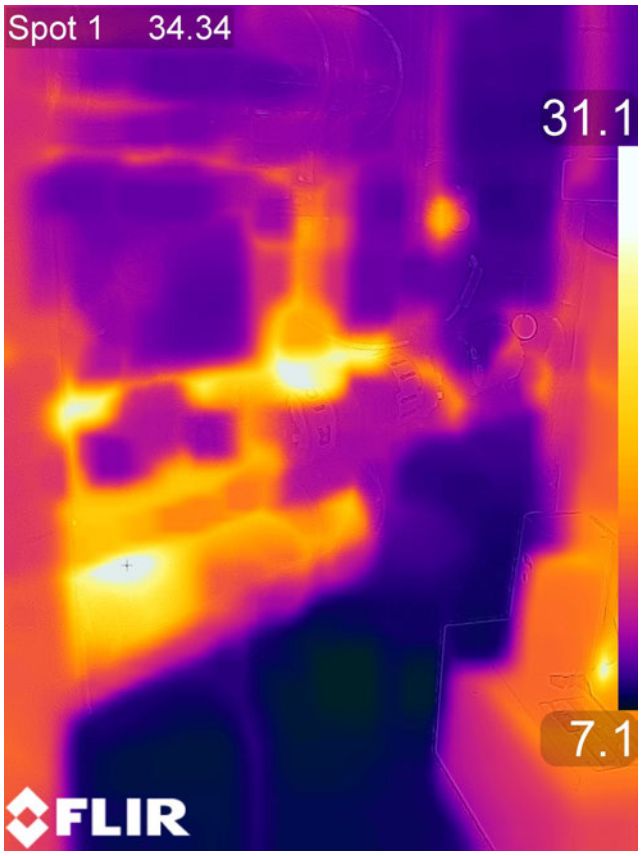

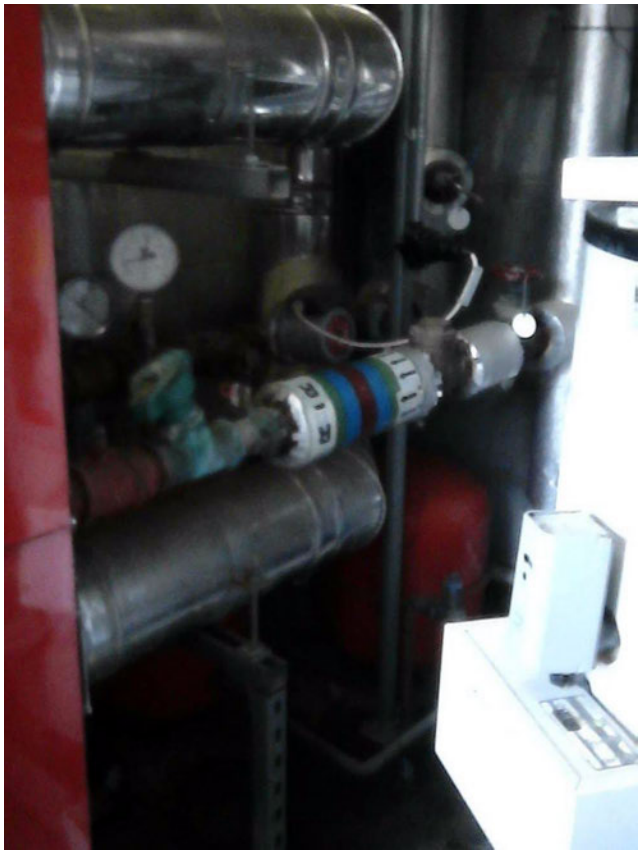

THERMAL IMAGE NOTE

This thermal image shows the pipe and valve which needs improvements in level of insulation.

Consider using bespoke removable insulation jackets to cover the exposed hot surfaces.

TEMPERATURES

Spot 1	34.3 °C

PARAMETERS

Emissivity	0.95
Distance	1 m
Reflected Temperature	22 °C
Relative Humidity	50 %
Atmospheric Temperature	20 °C
Atmospheric Transmission	0.99
External Optics Temperature	25 °C
External Optics Transmission	0.8