

INFRARED TEST: Test Report A09269

BEFORE: Single glazed wooden windows

LOCATION

11 Honywood Way,
Frinton-On-Sea, Essex

DATE

08.09.09

TIME

06:45

WEATHER

Start of survey: Dry

End of survey: Dry

WIND SPEED

Start of survey: 1-2

End of survey: 1-2

BUILDING SURFACES

Start of survey: Dry

End of survey: Dry

EXTERNAL AIR TEMP

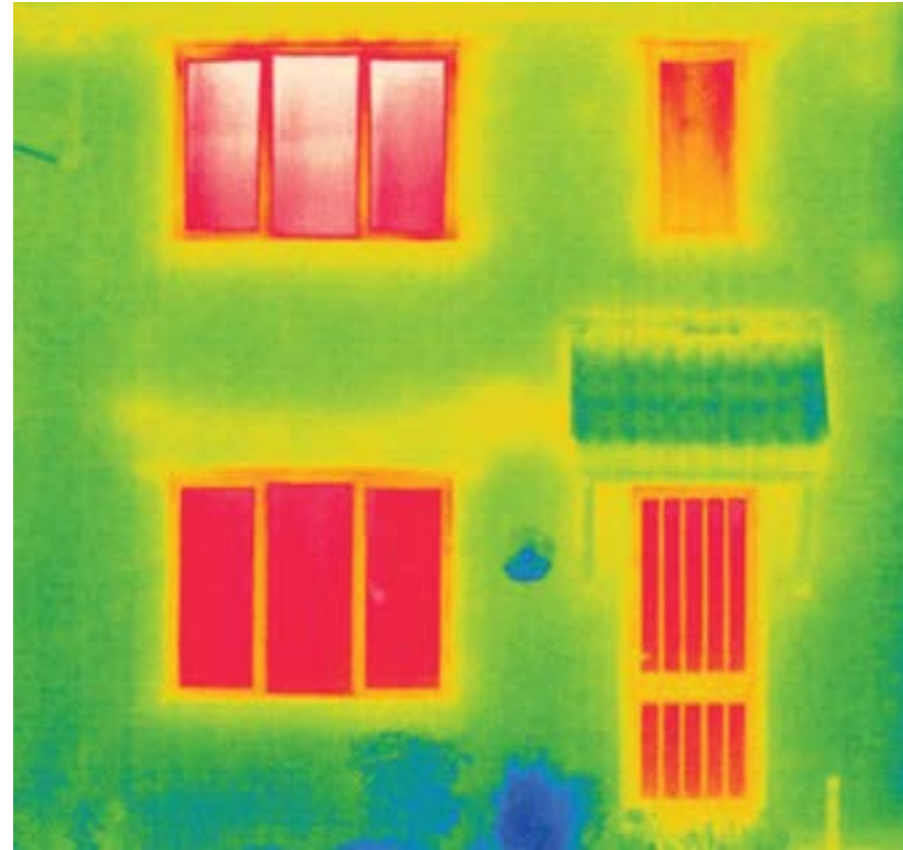
Start of survey: 17.9°C

End of survey: 18.1°C

INTERNAL AIR TEMP

Start of survey: 23.7°C

End of survey: 23.5°C



AFTER: Anglian B-rated casement windows

LOCATION

11 Honywood Way,
Frinton-On-Sea, Essex

DATE

11.09.09

TIME

06:45

WEATHER

Start of survey: Dry

End of survey: Dry

WIND SPEED

Start of survey: 1

End of survey: 1

BUILDING SURFACES

Start of survey: Dry

End of survey: Dry

EXTERNAL AIR TEMP

Start of survey: 13.1°C

End of survey: 13.8°C

INTERNAL AIR TEMP

Start of survey: 20.5°C

End of survey: 20.5°C



COMMENTS

It must be noted that the images were taken several days apart due to the time difference between the removal of the existing windows and the installation of the new ones.

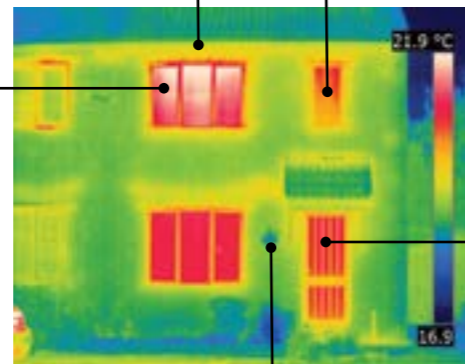
Internal/external air temperatures were relatively close on the two days.

The thermographic image taken of the existing single glazed windows indicates that the external surface temperature of the single glazed unit are close to the internal air temperature indicating significant heat loss.

Note how heat naturally escapes from under the eaves of the building.

Less heat escaping due to curtain being drawn over window.

Red windows indicate drastic areas of heat loss.



Heat is also escaping through the door glazing.

Hanging basket watered night before test shows up 'cold'.

COMMENTS

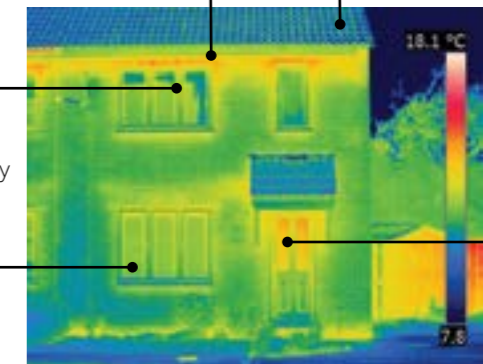
The image taken on 11.09.09 clearly shows that the external surface temperature of the double glazing is close to the external air temperature.

Anglian B-rated casement windows therefore provide significantly better thermal insulation than single glazed wooden windows.

Heat can now only be seen to be escaping from under the eaves.

Roof is now registering colder as overnight external air temperature was cooler so the windows show even greater heat retention.

First and second floor windows now do not show any red 'hot spots'.



Door contains Decorative and Obscure glass sealed units, which do not contain Low E glass. Provides comparison between non-Low E sealed units and Anglian Ultra 2.

CUSTOMER COMMENT: "The difference is very noticeable. I am undergoing treatment at the moment for a medical condition and I feel the cold terribly. Since having the windows fitted and despite it becoming rather Autumnal, I still have not had to have the heating on." D Winter, Owner, 11 Honywood Way.

BEFORE: Single glazed wooden windows

AFTER: Anglian B-rated casement windows



Here's the potential energy saving figures in black and white.

ENERGY TYPE	COST/EMISSION	REPLACING TIMBER SINGLE GLAZED WINDOWS WITH 'A RATED' PVC-U DOUBLE GLAZING	REPLACING PRE 2002 PVC-U DOUBLE GLAZED WINDOWS WITH 'A RATED' PVC-U DOUBLE GLAZING
GAS	£ Cost	£389.76 Per Year	£184.25 Per Year
	CO ₂ tonnes	1.00 Per Year	0.47 Per Year
ELECTRICITY	£ Cost	£1,169.02 Per Year	£552.63 Per Year
	CO ₂ tonnes	1.77 Per Year	0.84 Per Year
OIL	£ Cost	£169.23 Per Year	£80.00 Per Year
	CO ₂ tonnes	1.38 Per Year	0.65 Per Year

Source: Glass & Glazing Federation ([GGF Energy Savings Calculator | MyGlazing.com](https://www.ggf.co.uk/energy-savings-calculator)). A typical detached house has 23.7m² of windows. Calculations based on replacing either timber single glazed windows or pre-2002 pvc-u double glazed windows with a 12-14mm sealed unit with A Rated PVC-U double glazed windows. Illustrations show a range of central heating types. Figures correct as of 09.01.2023.

We carried out this thermal test to support our mission to improve the energy efficiency of Britain's homes.

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www.anglianhome.co.uk

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 9am-5pm SATURDAY & SUNDAY



BEFORE AND AFTER THERMOGRAPHIC INSPECTION:

Infrared image comparison of single vs double glazed windows on the same property.

**RESULTS DATA SHEET:
 11 Honywood Way,
 Frinton-On-Sea, Essex**

To demonstrate the thermal properties of our B-rated casement windows, we took thermal pictures of this property before and then after fitting it with our energy saving windows.

The survey was conducted by David McKenna of Build Check Ltd an independent ITC Level 1 Thermographer. The thermal images were taken with a Flir P620 Thermal Camera serial no. 309001804.

Environmental conditions were good, details of which can be seen in the test data inside.

The survey was conducted from outside the building following the principles of BR176 and BS EN 13187:1999.

Test Report A09269 Following BR176 and BS EN 13187:1999	David McKenna Ceng MCIBSE ITC Level 1 Report submitted 16.09.09	<i>David McKenna</i>
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