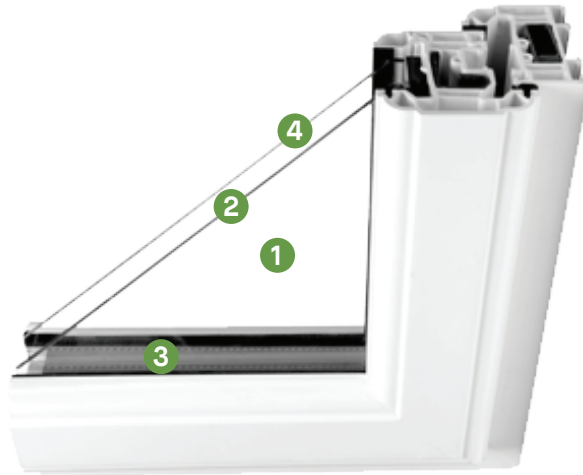


FAIRCO

WINDOWS & DOORS

PERFORMANCE



All Lifestyle windows are A Rated as standard. The double glazed unit [DGU] is made up as follows;

1. LOW IRON GLASS OUTER PANE
2. ARGON FILL IN THE CAVITY
3. HIGH PERFORMANCE WARM EDGE SPACER
4. ENERGY SAVING PLANITHERM TOTAL + INNER PANE

This configuration of DGU encourages solar gain and prevents heat loss through the glazed unit.

BFRC Report

1.0 Report no. & date: WER1709 07.11.2013
 2.0 Client: Polyframe Trade Ltd
 3.0 Address: Mile Thorn Works, Gibbet Street, Halifax, HX1 4DB



4.0 Window system: 70mm Rustique
 4.1 Frame type: Internal bead casement - side hung next to fixed light
 4.2 Frame material & finish: PVC-U white, wood grain and colours
 4.3 Profile & reinforcements: P10531 outer frame jambs - S00185 steel reinforcement
 4.3.1 Profile & reinforcements: P10531 outer frame head & base - S00185 steel reinforcement
 4.3.2 Profile & reinforcements: P10538 casement sash - S00183 steel reinforcement
 4.3.3 Profile & reinforcements: P10536 Z-mullion
 4.4 Glazing bead: P10431 - 28mm glazing bead
 4.5 Frame gasket material: Thermoplastic elastomer TPE ($\lambda = 0.14$ W/mK)
 4.6 Glazing bead gasket material: Thermoplastic elastomer TPE ($\lambda = 0.14$ W/mK)

5.0 Frame U-value - U_{window} : 1.36 (W/m²K) Page 3 of 3

6.0 Glazing details			
6.1 Unit thickness (mm)	28 (4/20/4)		
6.2 EN 673:1998 (A1) U_{glass} (W/m ² K)	1.2	Source	Appendix 2
6.3 External pane	Diamant	Emissivity ϵ	0.89
6.4 Centre pane	n/a	Emissivity ϵ	n/a
6.5 Internal pane	Planitherm Total +	Emissivity ϵ	0.05
6.6 Solar factor g_w value	0.74	Source	Saint Gobain Calumen
6.7 Spacer bar & gas filling	Superspacer	Gas filling	90% Argon
6.8 Sealants: Primary	n/a	Secondary	Hot Melt Butyl
6.9 Secondary sealant depth (mm)	5.0mm	Source	Edgetech
7.0 Air permeability at 50 Pa			
7.1 Test result	0.06	(m ³ /h/m)	
7.2 Test authority	BSI		
7.3 Test report number	261/7227054		
7.4 Test date	29.08.2008		

8.0 WER results	
8.1 Frame U-value - U_{window} (W/m ² K)	1.4
8.2 Solar factor - g_{window}	0.47
8.3 Effective air leakage - L_{factor} (W/m ² K)	0.00
8.4 Energy index (kWh/m ² /year)	10
8.5 WER band	A+

9.0 Comments
 9.1 Thermal conductivities: BS EN ISO 10077-2 : 2012, BS EN ISO 10456 Appendix 1
 9.2 Simulation programme: WinIso 2D version 6.0 - Sommer Informatik
 WinIso developed in association with the I.F.T. Institute for window technology e.V. Rosenheim

10.0 Simulation details
 This simulation was carried-out in accordance with BS EN ISO 10077-2 : 2012 by Stephen Oakes.



Window Energy Rating

Polyframe
KM 565012
Lifestyle

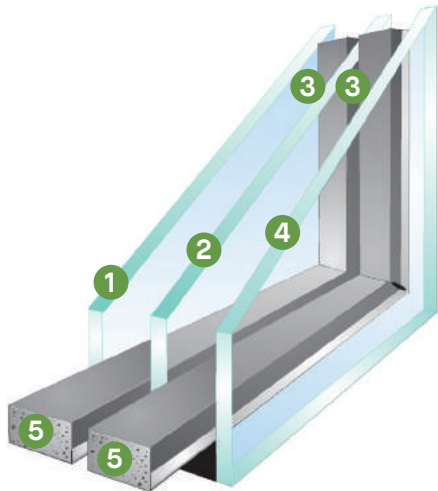
Efficiency rating (kWh/m ² /year) <small>Energy rating certified by BSI and based on a UK standard window. Exact energy consumption for this product will depend on the building, the local climate and interior temperature.</small>	10
Country:	UK
Thermal Transmittance	1.4 W/m ² .K
Solar Factor	0.47
Air Leakage	0.00 W/m ² .K

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WINDOWS & DOORS

TRIPLE GLAZING



The most Efficient **A TRIPLE GLAZED** unit is also available for the Lifestyle range of windows. These superior performing units have achieved a WER rating of A+ which is the most efficient rating available and have U Values as low as 1.1. Additionally triple glazed units give improved sound insulation and are ideal for homes near busy roads.

1. HIGH PERFORMANCE PT+ GLASS
2. HIGH PERFORMANCE TOUGHENED PT+ GLASS
3. ARGON GAS FILL
4. LOW IRON GLASS TO INCREASE SOLAR GAIN
5. WARM EDGE SPACER BAR PT+ - PLANITHERM TOTAL+

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62 Terenure Road North
Dublin 6W
+353 (0) 1 499 0110

BFRC Report

1.0 Report no. & date: WER1966 22.09.2011
2.0 Client: Polyframe Trade Ltd
3.0 Address: Mile Thorn Works, Gibbet Street, Halifax, HX1 4DB



Page 1 of 3

Page 2 of 3

4.0 Window system	70mm Rustique		
4.1 Frame type	Internally beaded casement - side hung next to fixed		
4.2 Frame material & finish	PVC-U white, wood grain and colours		
4.3 Profile & reinforcements	P10531 outer frame jambs - S00185 steel reinforcement		
4.3.1 Profile & reinforcements	P10531 outer frame head and base - S00185 steel reinforcement		
4.3.2 Profile & reinforcements	P10538 casement sash - S00152 steel reinforcement		
4.3.3 Profile & reinforcements	P10536 Z - mullion - S00155 steel reinforcement		
4.4 Glazing bead	P10426 - 36mm glazing bead		
4.5 Frame gasket material	Thermoplastic elastomer TPE ($\lambda = 0.14$ W/mK)		
4.6 Glazing bead gasket material	Thermoplastic elastomer TPE ($\lambda = 0.14$ W/mK)		

5.0 Frame U-value - U_{window}	1.05	(W/m ² K)	Page 3 of 3
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6.0 Glazing details			
6.1 Unit thickness (mm)	36 (4/12/4/12/4)		
6.2 EN 673:1998 (A1) U_{glass} (W/m ² K)	0.8	Source	Appendix 2
6.3 External pane	Diamant	Emissivity ϵ	0.89
6.4 Centre pane	Planitherm Total +	Emissivity ϵ	0.05
6.5 Internal pane	Planitherm Total +	Emissivity ϵ	0.05
6.6 Solar factor g_{value}	0.64	Source	Saint Gobain Calumet 2.3.3
6.7 Spacer bar & gas filling	Superspacer	Gas filling	90% Argon
6.8 Sealants: Primary	n/a	Secondary	Hot Melt Butyl
6.9 Secondary sealant depth (mm)	5.0mm	Source	Polyframe Trade
7.0 Air permeability at 50 Pa			
7.1 Test result	0.03	(m ³ /h/m)	
7.2 Test authority	BSI		
7.3 Test report number	2614796165/1 of 2		
7.4 Test date	26.01.2008		

8.0 WER results			
8.1 Frame U-value - U_{window} (W/m ² K)	1.1		
8.2 Solar factor - g_{window}	0.40		
8.3 Effective air leakage - $L_{a,eff}$ (W/m ² K)	0.00		
8.4 Energy index (kWh/m ² /year)	16		
8.5 WER band	A		

9.0 Comments			
9.1 Thermal conductivities	BS EN ISO 10077-2 : 2003, BS EN 12524		
9.2 Simulation programme	Winiso 2D version 6.0 - Sommer Informatik Winiso developed in association with the i.F.T. Institute for window technology e.V. Rosenheim		

10.0 Simulation details
This simulation was carried-out in accordance with BS EN ISO 10077-2 : 2003 by Robert Hoeltlrigl.

Robert Hoeltlrigl



Report layout issue 090901



Window Energy Rating

Polyframe
KM 585012
Lifestyle

Efficiency rating (kWh/m²/year) <small>Energy rating certified by BSI and based on a UK standard window. Exact energy consumption for this product will depend on the building, the local climate and interior temperature.</small>	16
<small>Country:</small>	UK
<small>Thermal Transmittance</small>	1.1 W/m ² .K
<small>Solar Factor</small>	0.40
<small>Air Leakage</small>	0.00 W/m ² .K

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