

TECHNICAL SCHEDULE

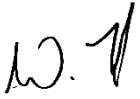
PAS 24



ER CERTIFICATION LTD

COMPANY	Future Products Limited Enterprise Road, Millennium Business Park, Mansfield NG19 7JX
AWARDED CMS MARK	90086
MATERIAL	PVC-U

Reference: 90086 issue 6. Page 1 of 9

Approved Window Type	PVCu Casement Windows, Fixed and Multi-light Windows.	
Profile system(s)	Liniar, Chamfered and Sculptured	
Outer frames (+Reinforcement options)	LSW011 & LCW011 (LSR011 or LAN101) LSW012 & LCW012 (LSR011 or LAN101)	
Sashes	LSW031 & LCW031 (LSR021 or LAN101) LSW033 & LCW033 (LSR021 or LAN101)	
Mullions	LSW022, LSW021 (LSR021 or LAN101) LCW022, LCW021 (LSR021 or LAN101)	
Glazing beads	LSW041, LCW041	
Construction	Fully welded	
Internally / externally glazed	Internal	
PAS 24 Approved Hardware		
Friction stays	DGS Elite	
Additional Stay Protection	GT Stayguard 17mm Hinge Protectors	
Casement Handle	Fab & Fix Key Locking	
Locking	Maco R.A.I.L or Maco Mk II Shootbolt 1 pair LMO303 run-up blocks per sash	
Glazing clips	Not Required	
Fixings – All Hardware must be screwed to Reinforcement, either steel or PVC	Supplied by Sheffield Bolt & Nut	
	Friction Stay to Frame	4.3 x 25 3500-25Z
	Friction Stay to Sash	4.8 x 30 PN218Z
	Hinge Protectors	4.3 x 25 3500-25Z
	Lock	4.3 x 25 3500-25Z
	Keeps to Steel	3.9 x 22 3525/22
	Keeps to PVCu	4.3 x 25 3500 25Z
	Handle	As Supplied with Handle
Standard(s) to which approved	PAS 24:2016, Class W. BS 6375 Parts 1,2,3	
Windows must be glazed in accordance with System Suppliers recommendations and BS 6262 (Glazing for Buildings). Where PAS 24 certified windows are to be installed adjacent to a door or when fitted with non-key unlocking hardware, each glazed area must incorporate 1 pane of laminate glass meeting the requirements of EN 356 Class P1A.		
Authorised by		Date: 02/10/2018
	Bill Keating, Managing Director, ER Certification Ltd.	

See below for size ranges

ER Certification Ltd

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Size Limitations and Performance Characteristics

Window Type	Max Width (mm)	Max Height (mm)	Max Overall perimeter (mm)	Max Transom/Mullion Length (mm)	Air Permeability Classification	Watertightness Classification	Resistance to Wind Load Classification	UK Exposure Category according to Table. 1 of BS6375-1:2015
Sash dimensions for windows with approved sash profiles:								
Internally Glazed								
Projecting top hungs Reinforced	1240	1240			2	7A	A3	1200
Projecting side hungs Reinforced	665	1240			2	7A	A5	2000
Overall dimensions for windows with approved outer frame profiles, transoms and mullions:								
Fixed	3000	3000	10000		4		2	800
Multilights Unreinforced T/M	1800	1800	5600	1000	4		3	800
Multilights, LAR021 T/M reinforcement	1800	1800	6800	1800	4		2	800
Multilights, LAR021 T/M reinforcement	2700	2700	8000	1300	2		2	800
Multilights, LSR021 T/M reinforcement	1800	1800	6800	1800	4	E1050	2	800
Multilights, LSR021 T/M reinforcement	2700	2700	9000	1800	4		2	800

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Approved Door Type	PVCu Single and Double Residential Doorsets												
Profile system(s)	Liniar												
Outer frames	LSW016 & LCW016(LSR016)												
Sashes	LSW036, LSW037 & LCW036, LCW037 (LSR036)												
Mullions	LSW021 & LCW021 (LSR036P)– Floating Mullions												
Mid-rails	LSW029 & LCW029												
Thresholds	In addition to standard Frame – Allmand Smith (Stormguard) AE5EX												
Glazing beads	LSW041												
Glazing clips	GT Products Security Glazing Clips in Beads for panels only												
Construction	Fully welded												
Internally / externally glazed	Internal												
Hinges	SFS 2D Dynamic Hinge – 3 per sash.												
Handle/ Cylinder	Fab & Fix Any handle combined with Ultion 3* or UAP Kinetica 3* Cylinder												
Locking Mechanism and keeps	Assa Abloy Yale Paddock Multi-Point (3 Hook, 4 Roller & 2 anti-lift bolts) Slave Lock, Yale Lockmaster PL30-19 Keeps: Assa Abloy Yale Paddock 1 piece.												
Letterplates	Any Letterplate meeting the requirements of TS008: 2015												
Panels	Sandwich panel with 2x 4mm MDF												
Fixings	<table border="0"> <tr> <td style="padding-right: 10px;">Hinge to Frame</td> <td>4.3 x 25mm Gimlet & 3.9 x 38mm Drill point</td> </tr> <tr> <td>Hinge to Sash</td> <td>3.9 x 38mm Drill point</td> </tr> <tr> <td>Lock</td> <td>4.3 x 25mm Gimlet</td> </tr> <tr> <td>Keeps</td> <td>4.3 x 25mm Gimlet</td> </tr> <tr> <td>Handle</td> <td>As Supplied</td> </tr> <tr> <td>Cylinder</td> <td>As Supplied</td> </tr> </table>	Hinge to Frame	4.3 x 25mm Gimlet & 3.9 x 38mm Drill point	Hinge to Sash	3.9 x 38mm Drill point	Lock	4.3 x 25mm Gimlet	Keeps	4.3 x 25mm Gimlet	Handle	As Supplied	Cylinder	As Supplied
Hinge to Frame	4.3 x 25mm Gimlet & 3.9 x 38mm Drill point												
Hinge to Sash	3.9 x 38mm Drill point												
Lock	4.3 x 25mm Gimlet												
Keeps	4.3 x 25mm Gimlet												
Handle	As Supplied												
Cylinder	As Supplied												
Reinforcement	In accordance with Liniar Recommendations												

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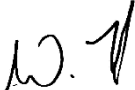
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Size limitation	Width – up to maximum of		Height – up to maximum of	
Single Door Overall size	1000 mm		2150 mm	
Double Door Overall Size	2000 mm		2150 mm	
Single Door Max Sash Size	902 mm		2080 mm	
Double Door Max Sash Size	940 mm		2080 mm	
Standard(s) to which approved	PAS24:2016, BS 6375, Parts 1,2,3			
Weather Performance as classified in BS 6375-1	Air permeability	Water tightness	Resistance to wind loads	Overall classification
Single Door, Open In, Standard Threshold	Class 2	Class 3A	Class A3	1200
Single Door, Open Out, Standard Threshold	Class 2	Class 3A	Class A3	1200
Single Door, Open In, Low Threshold	Class 2	Class 3A	Class A3	1200
Single Door, Open Out, Low Threshold	Class 2	Class 3A	Class A3	1200
Double Door, Open In, Standard Threshold	Not Classified	Not Classified	Class A3	800U
Double Door, Open Out, Standard Threshold	Class 2	Class 3A	Class A3	1200
Double Door, Open In, Low Threshold	Not Classified	Not Classified	Class A3	800U
Double Door, Open Out, Low Threshold	Class 2	Class 3A	Class A3	1200

Glazing for PAS 24 approved products must conform with PAS 24:2016 and be packed in accordance with System Supplier Fabrication Manual.

Authorised by	 Bill Keating, Managing Director, ER Certification Ltd.	Date 02/10/2018
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Approved Door Type	Composite Doors with PVCu Frame			
Profile system(s)	Liniar (Open in doors only)			
Slab type	Distinction Nan Ya 44mm Slab/Kerto Laminate Timber Slab			
Outer frames	LSW018 (LSR018 & LAN180)			
Thresholds	In addition to standard Frame – Allmand Smith slimline aluminium threshold (Stormguard)			
Glazing Cassettes	Nan Ya De-Glazable or Push-Fit ABS cassettes with UK Industrial Supplies Pro Link glazing tape 1.5 x 6mm and Allansons 1101 silicone sealant			
Hinges	Trojan Dynamic Composite Hinge			
Handle/ Cylinder	Fab & Fix Any handle combined with Ultion 3* or UAP Kinetica 3* Cylinder			
Locking Mechanism and keeps	Fullex Multipoint Lock, 3 hook XLC45HK16MS Fullex Multi=point 1 piece keep.			
Letterplates	Any Letterplate meeting the requirements of TS008: 2015			
Fixings	Hinge to Frame	4.3 x 40mm Gimlet		
	Hinge to Sash	4.3 x 40mm Gimlet		
	Lock	4.3 x 40mm Gimlet		
	Keeps	4.3 x 25mm Gimlet		
	Handle	As Supplied		
	Cylinder	As Supplied		
Size limitation	Width – up to maximum of		Height – up to maximum of	
Composite Single Door Overall Size	1020 mm		2080 mm	
Composite Door Max Sash Size	914 mm		2010 mm	
Standard(s) to which approved	PAS24:2016 Class D, BS 6375-Parts 1,2,3 (4mm Skin only)			
Weather Performance as classified in BS 6375-1	Air permeability	Water tightness	Resistance to wind loads	Overall classification
Open in Composite Doors	Class 2	Class 2A	Class A2	800X
Doors must be glazed in accordance with System Suppliers recommendations and BS 6262 (Glazing for Buildings). Where PAS 24 certified doors are to be installed, each glazed area must include at least one pane of laminated glass meeting the requirements of EN 356:2000 Class P1A or higher. Units must be packed in accordance with System Supplier Fabrication Manual.				
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Door type	Liniar Modloc Folding Sliding Door System	
Configurations	3 Pane (3+0), 3 Pane (2+1), 4 Pane (3+1)	
Inward opening / outward opening	Outward	
Glazing	Glazed – 28mm	
Outer frame	MBF 091	
Sashes	MBF 092 with MAR 092 Reinforcement	
Low Threshold	MBF 291 – with LAN 275 or LAN 278	
Glazing Bead	LCW041, LSW041	
Glazing Gaskets	PCE	
Weatherseals	MBF 194 (Sash), MBF 196 (Brush Pile), LBF 197 (Frame)	
Construction	Welded	
Top Track	MAR 091	
Meeting Stile	MAR 093	
Bottom Track	MSR 091	
Double Roller	MBF 050	
Single Roller	MBF 060	
Butt Hinge	MBF 071	
C-Handle	MBF 072	
Locking mechanisms	MBF 045L, MBF 047, MBF 048	
Cylinders	MBF 031N, MBF 032N, MBF 034N, MBF 035N	
Cylinder Guard	LBF 042	
Handles	MBF 080, MBF 081, MBF 082	
Key/key, key/thumbturn class	Key/key only	
Door Magnets	LBF 041	
Keeps	To Suit Locks as supplied by Liniar	
Fixings	Lock & Keeps – 4.3 x 35mm ST.ST Hinges – 4.3 x 25mm ST.ST	
Size limitation	Length – up to maximum of	Height – up to a maximum of
Frame with full Threshold	3090mm	2235 mm
Frame with low Threshold	3090mm	2215 mm
Leaf	970 mm	2131 mm

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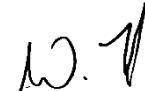
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Standard(s) to which approved	PAS 24: 2012 - BS6375-1: 2009 – BS6375-2: 2009			
Classification under PAS 24: 2012	D K			
Weathertightness Classification under BS 6375-1	Air permeability	Water tightness	Resistance to wind loads	UK Exposure Category
Outward Opening, Standard Threshold	Class 4	Class 8A	Class A2	800
Outward Opening, Low Aluminium Threshold	Class 3	Class 6A	Class A2	800
Authorised by	 Bill Keating, Managing Director, ER Certification Ltd.			Date 02/10/2018

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Approved Door Type	Kerto TimberComposite Doors with PVCu Frame		
Slab type	Kerto Laminate 49mm Timber Slab with PVCU Skins		
Outer frames	LSW016/LSW017 Laminated Timber or Steel Reinforcement LAN101 Scerw retainer.		
Thresholds	In addition to standard Frame – Allmand Smith slimline aluminium threshold – AM3 (Stormguard)		
Glazing Cassettes	ODL Tri-Sys Cassettes		
Hinges	Trojan Dynamic Composite Hinge		
Handle/ Cylinder	Fab & Fix Any handle combined with Ultion 3* or UAP Kinetica 3* Cylinder		
Locking Mechanism and keeps	Fullex Multipoint Lock, 3 hook XLC45HK16MS inc welded moneyclip guard Fullex Multi=point 1 piece keep.		
Letterplates	Any Letterplate meeting the requirements of TS008: 2015		
Fixings	Hinge to Frame	4.3 x 40mm Gimlet	
	Hinge to Sash	4.3 x 40mm Gimlet	
	Lock	4.3 x 40mm Gimlet	
	Keeps	4.3 x 25mm Gimlet	
	Handle	As Supplied	
	Cylinder	As Supplied	
	Cassette	4.3 x 48mm self tappers	
Size limitation	Width – up to maximum of	Height – up to maximum of	
Composite Single Door Overall Size	964 mm	2164 mm	
Composite Door Max Sash Size	854 mm	2054 mm	
Standard(s) to which approved	PAS24:2016 Class D, BS 6375-Parts 1,2,3		
Weather Performance as classified in BS 6375-1	Air permeability	Water tightness	Resistance to wind loads
Open in Composite Doors	Class 2	Class 2A	Class C2
			800X
Doors must be glazed in accordance with System Suppliers recommendations and BS 6262 (Glazing for Buildings). Where PAS 24 certified doors are to be installed, each glazed area must include at least one pane of laminated glass meeting the requirements of EN 356:2000 Class P1A or higher. Units must be packed in accordance with System Supplier Fabrication Manual.			
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Conformity to BS 6375-3 (all products covered)

5.1	Resistance to snow and permanent load	N/A
5.2.1	Reaction to Fire	NPD
5.2.2	External Fire Performance	NPD
5.2.3	Resistance to Fire	NPD
5.3	Dangerous Substances	None
5.4	Ability to Release	NPD
5.5	Acoustic Performance	NPD
5.6	Thermal Transmittance	NPD
5.7	Radiation Properties	NPD
5.8	Durability	NPD
5.9	Bullet Resistance	NPD
5.10	Explosion Resistance	NPD
5.11	Behaviour between different climates	NPD
5.12	Behaviour under humidity variations in successive uniform climates	NPD
5.13	Burglar Resistance	See PAS 24 Scope
5.14	Power-operated Products	NPD
5.15	Closure against Obstructions	NPD

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