



Kitemark[®] Licence

No. KM 514535

The licence is granted to:

**Pioneer Trading Company Essex Ltd
Units 1-3 Red Barn, Warners Farm
Howe Street
Great Waltham
Chelmsford
CM3 1BN
United Kingdom**

In respect of:

BS 7412

Plastics windows made from PVC-U extruded hollow profiles

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For and on behalf of BSI:

Gary Fenton, Global Assurance Director

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BS 7412:2002 Plastics windows made from unplasticized polyvinyl chloride (PVC-U) extruded hollow profiles.

This Licence covers the fabrication of windows from the range of profiles and components supplied by Synseal Extrusions Limited under Licence Number KM 30983.

| | |
|--------------------------------------|--|
| System(s): | Synerjy Suite PVC-U Window System |
| Fabrication and Installation: | Fabricated and installed in accordance with the latest issue(s) of the following controlled manual(s): Synerjy Suite Technical Manual Kitemarked Synseal Products List |
| System description: | The windows are double glazed only, internally beaded only, multipoint locking only, with welded transoms/mullions, tee and/or cruciform joints only. |
| Ventilation: | None |
| Window Types: | Casement windows Tilt/turn windows Fixed windows Multilight windows comprising opening light(s) and/or fixed light(s) |

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Size Limitations and Performance Characteristics

Synerjy Suite PVC-U Window System

| Window Type | Length (up to a maximum of) | Height (up to a maximum of) | Perimeter (up to a maximum of) | Transom/Mullion length including frame (up to a maximum of) | Exposure category as given in Table 1 of BS 7412:2002 |
|---|-----------------------------|-----------------------------|--------------------------------|---|---|
| Sash dimensions for approved casement sash profiles: | | | | | |
| Projecting top hung windows Reinforced | 1156mm | 1156mm | - | - | 2000 Special |
| Projecting side hung windows Reinforced | 606mm | 1356mm | - | - | 2000 Special |
| Sash dimensions for approved tilt/turn sash profiles: | | | | | |
| Tilt/turn windows Reinforced | 1116mm | 1416mm | - | - | 1600 Special |
| Overall dimensions for approved outer frame profiles: | | | | | |
| Fixed windows Part reinforced | 2500mm | 2500mm | 8200mm | - | 2400 Special |
| Overall dimensions for approved transom/mullion profiles: | | | | | |
| Multilight windows, RS73 transom/mullion reinforcement | 1800mm | 1800mm | 6000mm | 1200mm | 2000 Special |
| Multilight windows, RS73 transom/mullion reinforcement | 1400mm | 1400mm | 5400mm | 1400mm | 1600 Special |
| Multilight windows, RS74 transom/mullion reinforcement | 2400mm | 2400mm | 7800mm | 1500mm | 1600 Special |
| Multilight windows, RS74 transom/mullion reinforcement | 1400mm | 1400mm | 5400mm | 1400mm | 2000 Special |
| Multilight windows, RS81 transom/mullion reinforcement | 1600mm | 1600mm | 6400mm | 1600mm | 1600 Special |

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This Licence covers the fabrication of windows from the range of profiles and components supplied by Synseal Extrusions Limited under Licence Number KM 30983.

| | |
|--------------------------------------|---|
| System(s): | Shield Suite PVC-U Window System |
| Fabrication and Installation: | Fabricated and installed in accordance with the latest issue(s) of the following controlled manual(s): Shield Technical Manual Kitemarked Synseal Products List |
| System description: | The windows are double glazed only, internally beaded only, multipoint locking only, with welded transoms/mullions, tee and/or cruciform joints only. |
| Ventilation: | None |
| Window Types: | Casement windows Tilt/turn windows Fixed windows Multilight windows comprising opening light(s) and/or fixed light(s) |

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Size Limitations and Performance Characteristics

Shield PVC-U Window System

| Window Type | Length (up to a maximum of) | Height (up to a maximum of) | Perimeter (up to a maximum of) | Transom/Mullion length including frame (up to a maximum of) | Exposure category as given in Table 1 of BS 7412:2002 |
|---|-----------------------------|-----------------------------|--------------------------------|---|---|
| Sash dimensions for approved casement sash profiles: | | | | | |
| Projecting top hung windows Reinforced | 1156mm | 1156mm | - | - | 2400 Special |
| Projecting side hung windows Reinforced | 606mm | 1156mm | - | - | 2400 Special |
| Sash dimensions for approved tilt/turn sash profiles: | | | | | |
| Tilt/turn windows Reinforced | 1116mm | 1416mm | - | - | 1600 Special |
| Overall dimensions for approved outer frame profiles: | | | | | |
| Fixed windows Part reinforced | 2500mm | 2500mm | 8200mm | - | 2000 Special |
| Overall dimensions for approved transom/mullion profiles: | | | | | |
| Multilight windows, RA71 transom/mullion reinforcement | 1500mm | 1500mm | 6000mm | 1500mm | 1600 Special |
| Multilight windows, RS73 transom/mullion reinforcement | 1800mm | 1800mm | 6000mm | 1200mm | 2000 Special |
| Multilight windows, RS73 transom/mullion reinforcement | 1400mm | 1400mm | 5400mm | 1400mm | 1600 Special |
| Multilight windows, RS74 transom/mullion reinforcement | 2400mm | 2400mm | 7800mm | 1500mm | 1600 Special |
| Multilight windows, RS74 transom/mullion reinforcement | 1400mm | 1400mm | 5400mm | 1400mm | 2000 Special |

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