

# Certificate

## Certificate No.

BP21296-1

## Issue date

08/03/2019

## Expiration date

14/07/2028



This is to acknowledge that

## Vista Panels Ltd Single Doorset Range

Annex A - The Dales Range PVC-U / Composite Doorset

Annex B - Vista Collection PVC-U / Composite Doorset

Annex C - XtremeDoor Range PVC-U / Composite Doorset

Evaluated and meets the requirements of the certification scheme

**BSFD - Enhanced Security Performance of  
Windows and Doors for use in the United  
Kingdom**

## Certificate for the UL Mark – Enhanced Security Performance of Doors PAS 24:2022

### Section 1 – Certification details:

|                                 |                                                                                               |                                    |                                                                                      |
|---------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|
| <b>Customer Name:</b>           | Vista Panels Ltd                                                                              | <b>Certification Body:</b>         | UL International (UK) Ltd                                                            |
| <b>Fabrication Address:</b>     | Unit H1 Prenton Way<br>North Cheshire Trading Estate<br>Wirral<br>Merseyside<br>CH43 3DU      | <b>Certification Body Address:</b> | Halesfield 2,<br>Telford,<br>Shropshire,<br>TF7 4QH<br>United Kingdom                |
| <b>Certification Scheme:</b>    | BSFD - Enhanced Security Performance of Windows and Doors for use in the United Kingdom Rev 3 | <b>Certificate Number:</b>         | BP21296-1                                                                            |
| <b>Date of Commencement:</b>    | 08/03/2019                                                                                    | <b>Date of Expiry:</b>             | 14/07/2028                                                                           |
| <b>Certificate Compiled by:</b> | Rhys Cadwallader<br>Project Engineer                                                          | <b>Certificate Approved by:</b>    | Mark Swanborough<br>Staff Engineer                                                   |
| <b>Signed:</b>                  |             | <b>Signed:</b>                     |  |

### Section 2 - Products covered by this certificate:

System type and configurations:

| System                                        | Range of Configurations | Opening Direction  | Maximum Casement Size (WxH) |
|-----------------------------------------------|-------------------------|--------------------|-----------------------------|
| The Dales Range<br>PVC-U / Composite Doorset  | Single Doorset          | Inward and Outward | 914 mm x 2013 mm            |
| Vista Collection<br>PVC-U / Composite Doorset | Single Doorset          | Inward and Outward | 914 mm x 2013 mm            |
| XtremeDoor Range<br>PVC-U / Composite Doorset | Single Doorset          | Inward and Outward | 914 mm x 2013 mm            |

NOTE: Additional PVC-U edge protection is added to each doorset

**Extrapolation rules** - Assuming identical hardware is fitted as specified in this certificate, the products listed are covered up to the maximum sizes stated above and down to a 50% reduction in height and/or width.

### Section 3 - Supporting test documentation:

Tested range and performance:

| Product Type                           | BS 6375-1: 2009                          |                            | BS 6375-2: 2009                   | BS 6375-3: 2009 | PAS 24:2022 |       |
|----------------------------------------|------------------------------------------|----------------------------|-----------------------------------|-----------------|-------------|-------|
|                                        | Test                                     | Category                   | Result                            | Result          | Test        | Class |
| The Dales, Vista and Xtreme Door Range | Exitex UMT / Exitex MDS83 Threshold only | 800 (on largest specimen)  | Mech 2<br>Cyclic 4<br>Op forces 1 | Annex C<br>PASS | Annex A & B | D     |
|                                        | Exitex MDS80/2 Threshold only            | 800X (on largest specimen) |                                   |                 |             |       |
|                                        | OUM4 / MXS 15/2/TB Thresholds            | 1200 (on largest specimen) |                                   |                 |             |       |
|                                        | Other Thresholds                         | 800U (on largest specimen) |                                   |                 |             |       |

## Annex A – Product Details The Dales Range PVC-U / Composite Doorset

| Door Leaf      |                                                                                          |                                                                                                                                |
|----------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                | Part No. / Material                                                                      | Dimension (mm)                                                                                                                 |
| Door Panel     | Nan-Ya Plastics Corporation Standard Range (SBD) – 44.5mm GRP Faced Composite Door Blank | 46P, 48P, 68P, 00P, 6FP<br>2mm skins + ABS central board<br>Refer to Min / Max sizes above<br>Product code carries “ES” Suffix |
| Door edges     | PVC-U edge banding to stiles                                                             | 44 x 2 PUR Hotmelt adhesive                                                                                                    |
| Rain Deflector | Exitex Rain Deflector and Exitex Rain Deflector Expelex CFNS                             | 35 x 15 4No. 4 x 20 screws                                                                                                     |

| Door Frame      |                                                                                                                                                                                                                                                                 |                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                 | Part No. / Material                                                                                                                                                                                                                                             | Dimension (mm)                  |
| Head and Jambs  | Eurocell Ultimate 70 (Ref: EWS 031)                                                                                                                                                                                                                             | 70 x 80                         |
|                 | Eurocell Ultimate 70 (Ref: EWS 032)                                                                                                                                                                                                                             | 70 x 65                         |
|                 | Eurocell Ultimate 70 (Ref: EWS 033)                                                                                                                                                                                                                             | 70 x 85                         |
| Reinforcement   | PVC-U Extrusion for EWS031 profile (Ref: EWS 831P) Location: Frame Jambs                                                                                                                                                                                        | 43 x 37                         |
|                 | PVC-U Extrusion for EWS 032 profile (Ref:EWS 832P) Location: Frame Jambs                                                                                                                                                                                        | 43 x 22                         |
| Threshold       | Exitex (Inward Opening):<br>UMT<br>MDS70<br>MDS80/2<br>MDS83<br>MDS25<br>MDS140<br>MDS150<br>MWK R2/20<br>MXS15/2/TB<br>Exitex (Outward Opening):<br>OUM<br>OUM/4<br>OUM/TD<br>OUM125<br>Stormguard: (Inward Opening): AM3<br>Stormguard (Outward opening): AM5 | -                               |
| Jointing Method | Mechanically fixed to jamb reinforcement screwports or timber stub<br>4.3 x 20 screws (Threshold to Sill)<br>4.0 x 60 screws (Sill to Jamb stub)                                                                                                                | -                               |
| Sill            | Eurocell Ultimate 70 (Ref: AC85 / BC85) -<br>Eurocell Ultimate 70 (Ref: AC150 / BC150)<br>Eurocell Ultimate 70 (Ref: AC180 / BC180)                                                                                                                             | 85 x 30<br>150 x 30<br>180 x 30 |

| Perimeter sealing details |                                                                  |   |
|---------------------------|------------------------------------------------------------------|---|
|                           | Description / Part No. / Material                                | - |
| Frame reveal              | Option 1: Central Extrusions<br>Ref: B200<br>Type: Bubble gasket | - |
|                           | Option 2: Eurocell Co-extruded gasket                            | - |
|                           | Linear / Schlegel / Exitex                                       | - |
|                           |                                                                  | - |

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|                        |                                                                         |   |
|------------------------|-------------------------------------------------------------------------|---|
|                        | Type: Brush seal                                                        |   |
| <b>Seal continuity</b> | Seals uninterrupted by hardware.<br>Brush seal interrupted by hardware. | - |

| Glazing & Infill                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
|                                            | <b>Description / Part No. / Material</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     |
| <b>Glass Configuration</b>                 | At least 1 pane must be class P1A according to BS EN 356                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     |
| <b>Cassette internal and external face</b> | Nan-Ya plastics corporation clip and adhesive fixed glazing cassette system in standard styles:<br>MAS 9V: Sunburst<br>MAS 7B: Half Glazed Arch + Grid<br>MAS 7D: Twin Arch<br>MAS 9E/F: Eyebrow<br>MAS 9W: Half Moon<br>MAS 7A: Half Glazed Arch Top<br>MAS 9N: Twin Vertical<br>MAS 9Q: Half Glazed<br>MAS 7C: Half Glazed + Grid<br>MAS 9S: Twin tops<br>MAS 2F: Mid panel<br>MAS 9X: Oval<br>MAS 9Y: Diamond<br>MAS 7K: Centre panel (9 panel)<br>MAS 9M: Centre panel (8 panel)<br>MAS 7L: Low | -                                                     |
| <b>Gasket</b>                              | UK industrial tapes Ref: Foam 10 x 1.6<br>UK industrial tapes / A.E Harris & Co. Ltd Ref: Prolink 6mm / 10mm<br>PU grip adhesive                                                                                                                                                                                                                                                                                                                                                                    | Between leaf and cassette<br><br>Cassette fixing lugs |
| <b>Bead Fixings</b>                        | Clip fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                     |

| Glazing & Infill                           |                                                                                                                                                                                                                                                                                                  |   |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                            | <b>Description / Part No. / Material</b>                                                                                                                                                                                                                                                         | - |
| <b>Glass Configuration</b>                 | At least 1 pane must be class P1A according to BS EN 356                                                                                                                                                                                                                                         | - |
| <b>Cassette internal and external face</b> | Door Co Craftsman 3 lite<br>ODL Cassettes TriSys range<br>Style 0806<br>Style 0836<br>Style 0836SR<br>Style 0836ST<br>Style 2236<br>Style 223609<br>Style 0718<br>Style HR01<br>Style HR05<br>Style 0824<br>Style 2236RT<br>Style 223611<br>Style 0707<br>Style 0864<br>Style 0764<br>Style 0848 | - |

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|                     |                                                                             |                                              |
|---------------------|-----------------------------------------------------------------------------|----------------------------------------------|
|                     | Style 2248<br>ODL Cassettes CR range<br>Style 816<br>Style 817<br>Style 818 |                                              |
| <b>Sealants</b>     | 10mm x 1.5mm Prolink 1500R Bluefilmic liner (GB10)                          | Between leaf/cassette and glass and cassette |
| <b>Bead Fixings</b> | Screw fixed with decorative clip fix cover                                  | -                                            |

| Hardware                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                            | Part No. / Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fixings                                                                   |
| <b>Cylinder</b>            | UAP (Ref: Zero Lift SxD) KM 561977 / 35/35 /<br>YALE (Ref: Anti-Bump Cylinder) KM 532920 / 35/35 /<br>Or an alternative cylinder and handle combination can be used that meets the requirements of PAS 24:2016 as stated below;<br>• Cylinder certified to BS EN 1303:2015 including Cylinder Vulnerability Assessment<br>• Cylinder certified to TS 007:2014 – 3 star level<br>• Cylinder certified to Sold Secure – Gold level<br>• Cylinder certified to PAS 24:2016 Annex A<br>• Combination of handle, cylinder & cylinder protection to have a minimum combined total of 3 star rating to TS 007:2014 (e.g. 1 star cylinder + 2 star handle or 1 star cylinder + 2 star cylinder protection) | M5 machine screw                                                          |
| <b>Cylinder protection</b> | Paddock Fabrications (Ref. Cylinder guard 9101)<br>Ingenious Locks & Hardware (Ref. Cylinder guard 6101)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | M6 x 60 machine screw                                                     |
| <b>Handles</b>             | Handle:<br>Trojan Hardware & Design Ltd (Ref: Sparta) / 120 Lever /<br>Ingenious Locks and Hardware (Ref. 4000 / 4002 series) / 120 Lever<br>Total Hardware (Ref: Quantum / Endurance) / 120 Lever<br>Yale, TS007 2* Door pull (Polished chrome), code: YLKTCP<br><br>Bar handles<br><br>600mm Single Bar Handle Bolt Through & 600mm Double Sided Bar Handle<br><br>1200mm Single Bar Handle Bolt Through & 1200mm Double Sided Bar Handle<br><br>1800mm Single Bar Handle Bolt Through & 1800mm Double Sided Bar Handle                                                                                                                                                                          | M6 x 60 screws<br><br><br><br><br><br><br>Each handle has 2 Fixing Points |
| <b>Locking Mechanism</b>   | Option 1: Paddock Fabrications (Ref: PL147-45-03) 45 wide<br>Option 2: YALE / Millenco / Assa Abloy (Ref: Mantis 3 MA80073) (Full faceplate) 40 wide<br>Option 3: YALE / Millenco / Assa Abloy (Ref: Mantis 3 MA85030) (20mm faceplate) 20 wide<br>Option 4: Ingenious Locks & Hardware (Ref. 1009 5 hook MPL) 20 wide<br>Option 5: Winkhaus AV2-F 2070/45 92/8 M2                                                                                                                                                                                                                                                                                                                                 | As supplied                                                               |

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|                     |                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
|                     | (L/H and R/H) 20 wide<br>Option 6: Winkhaus, AV2 Heritage 2070/55, code: 5008984 L/H and 5008982 R/H.<br>Option 7: Ingenious Locks & Hardware 3 Latch Heritage 45mm Backset Autofire Lock 1044 with CPG Gimlet Point fixing                                                                                                                                                                                                |                                                                                                                                  |
| <b>Hinges</b>       | MILA Hardware (Ref: iDeal Butt Hinge 22260) 100 x 30<br>ERA (Ref. Challenger 3D Butt Hinge) 100 x 50<br>Winkhaus ECO Hinge 102 x 35<br>SFS 2D adjustable Butt Hinge 9016 Dynamic 2D<br>Nico Manufacturing White Icon Adjustable Hinge 4961WH                                                                                                                                                                               | 5.0 x 60 screws to Frame<br>4.5 x 40 screws to Leaf<br><br>CSR 4.8x45 Z<br>StarPVCU                                              |
| <b>Keeps</b>        | Option 1: Paddock Fabrications (Ref: PLK481-19 Keep set)<br>Option 2/3: YALE / Millenco / Assa Abloy (Ref: Mantis 3 keep set)<br>Option 4: Ingenious Locks & Hardware (Ref. 1146)<br>Option 5: Winkhaus AV2 F24 908W R/End MV1<br>Winkhaus F24-908W R/End U<br>Option 6: 2No. F24 908W AV2 MV1 R/End keeps FX4 (Silver), code: 4933948.<br>1No. F24-908W Centre keeps R/End U (Silver), code: 4937126 L/H and 4937125 R/H. | 4.2 x 45 screws into frame<br><br>4.2 x 45 screws into frame<br><br>4.2 x 45 screws into frame<br><br>4.3 x 32 screws into frame |
| <b>Letter plate</b> | Trojan 0793 TS008 Letterplate<br>Or alternative letterplate may be used that meets the requirements of TS008:2015 - Enhanced security grade 2                                                                                                                                                                                                                                                                              | -                                                                                                                                |

## Annex B – Product Details

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| Door Leaf      |                                                                                                                                         |                                                                                                                                                                                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | Part No. / Material                                                                                                                     | Dimension (mm)                                                                                                                                                                                                                                                            |
| Door Panel     | Nan-Ya Plastics Corporation Standard Range (SBD) – 44.5mm GRP Faced Composite Door Blank                                                | 46P, 48P, 68P, 00P, 6FP<br>2mm skins + ABS central board<br>Refer to Min / Max sizes above<br>Product code carries “ES” Suffix                                                                                                                                            |
|                | DoorCo Ltd, GRP Composite 44 mm leaf<br>Internal/External skins + reinforcing, 2mm GRP<br>manufactured from SMC Core, polyurethane foam | 64C: 6 Panel & 4 panel long top<br>combo<br>4BT: 4 Panel Blank Top<br>6CT: 6 Line Cottage<br>VFL: Vertical Flush<br>GFL: Grooved Flush<br>4PA: 4 Panel Long Pre Aperture<br>3PA 3 Panel Sidelite<br>34L: ¾ Lite<br>CFM: Craftsman<br>PFL: Links Flush<br>MZF: Monza Flush |
| Door edges     | PVC-U edge banding to stiles                                                                                                            | 44 x 2 PUR Hotmelt adhesive                                                                                                                                                                                                                                               |
| Rain Deflector | Exitex Rain Deflector and Exitex Rain Deflector<br>Expelex CFNS                                                                         | 35 x 15 4No. 4 x 20 screws                                                                                                                                                                                                                                                |

| Door Frame     |                                                                                                                                                                                                                                                                 |                |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                | Part No. / Material                                                                                                                                                                                                                                             | Dimension (mm) |
| Head and Jambs | Eurocell Ultimate 70 (Ref: EWS 031)                                                                                                                                                                                                                             | 70 x 80        |
|                | Eurocell Ultimate 70 (Ref: EWS 032)                                                                                                                                                                                                                             | 70 x 65        |
|                | Eurocell Ultimate 70 (Ref: EWS 033)                                                                                                                                                                                                                             | 70 x 85        |
| Reinforcement  | PVC-U Extrusion for EWS031 profile<br>(Ref: EWS 831P) Location: Frame Jambs                                                                                                                                                                                     | 43 x 37        |
|                | PVC-U Extrusion for EWS 032 profile<br>(Ref:EWS 832P) Location: Frame Jambs                                                                                                                                                                                     | 43 x 22        |
| Threshold      | Exitex (Inward Opening):<br>UMT<br>MDS70<br>MDS80/2<br>MDS83<br>MDS25<br>MDS140<br>MDS150<br>MWK R2/20<br>MXS15/2/TB<br>Exitex (Outward Opening):<br>OUM<br>OUM/4<br>OUM/TD<br>OUM125<br>Stormguard: (Inward Opening): AM3<br>Stormguard (Outward opening): AM5 | -              |

|                        |                                                                                                                                                  |                                 |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Jointing Method</b> | Mechanically fixed to jamb reinforcement screwports or timber stub<br>4.3 x 20 screws (Threshold to Sill)<br>4.0 x 60 screws (Sill to Jamb stub) | -                               |
| <b>Sill</b>            | Eurocell Ultimate 70 (Ref: AC85 / BC85) -<br>Eurocell Ultimate 70 (Ref: AC150 / BC150)<br>Eurocell Ultimate 70 (Ref: AC180 / BC180)              | 85 x 30<br>150 x 30<br>180 x 30 |

| Perimeter sealing details |                                                                         |   |
|---------------------------|-------------------------------------------------------------------------|---|
|                           | <b>Description / Part No. / Material</b>                                | - |
| <b>Frame reveal</b>       | Option 1: Central Extrusions<br>Ref: B200<br>Type: Bubble gasket        | - |
|                           | Option 2: Eurocell Co-extruded gasket                                   | - |
|                           | Linear / Schlegel / Exitex<br>Type: Brush seal                          | - |
| <b>Seal continuity</b>    | Seals uninterrupted by hardware.<br>Brush seal interrupted by hardware. | - |

| Glazing & Infill                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
|                                            | <b>Description / Part No. / Material</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     |
| <b>Glass Configuration</b>                 | At least 1 pane must be class P1A according to BS EN 356                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     |
| <b>Cassette internal and external face</b> | Nan-Ya plastics corporation clip and adhesive fixed glazing cassette system in standard styles:<br>MAS 9V: Sunburst<br>MAS 7B: Half Glazed Arch + Grid<br>MAS 7D: Twin Arch<br>MAS 9E/F: Eyebrow<br>MAS 9W: Half Moon<br>MAS 7A: Half Glazed Arch Top<br>MAS 9N: Twin Vertical<br>MAS 9Q: Half Glazed<br>MAS 7C: Half Glazed + Grid<br>MAS 9S: Twin tops<br>MAS 2F: Mid panel<br>MAS 9X: Oval<br>MAS 9Y: Diamond<br>MAS 7K: Centre panel (9 panel)<br>MAS 9M: Centre panel (8 panel)<br>MAS 7L: Low | -                                                     |
| <b>Gasket</b>                              | UK industrial tapes Ref: Foam 10 x 1.6<br>UK industrial tapes / A.E Harris & Co. Ltd Ref: Prolink 6mm / 10mm<br>PU grip adhesive                                                                                                                                                                                                                                                                                                                                                                    | Between leaf and cassette<br><br>Cassette fixing lugs |
| <b>Bead Fixings</b>                        | Clip fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                     |



| Glazing & Infill                           |                                                                                                                                                                                                                                                                                                                                                                                 |                                              |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|                                            | Description / Part No. / Material                                                                                                                                                                                                                                                                                                                                               | -                                            |
| <b>Glass Configuration</b>                 | At least 1 pane must be class P1A according to BS EN 356                                                                                                                                                                                                                                                                                                                        | -                                            |
| <b>Cassette internal and external face</b> | Door Co Craftsman 3 lite<br>ODL Cassettes TriSys range<br>Style 0806<br>Style 0836<br>Style 0836SR<br>Style 0836ST<br>Style 2236<br>Style 223609<br>Style 0718<br>Style HR01<br>Style HR05<br>Style 0824<br>Style 2236RT<br>Style 223611<br>Style 0707<br>Style 0864<br>Style 0764<br>Style 0848<br>Style 2248<br>ODL Cassettes CR range<br>Style 816<br>Style 817<br>Style 818 | -                                            |
| <b>Sealants</b>                            | 10mm x 1.5mm Prolink 1500R Bluefilmic liner (GB10)                                                                                                                                                                                                                                                                                                                              | Between leaf/cassette and glass and cassette |
| <b>Bead Fixings</b>                        | Screw fixed with decorative clip fix cover                                                                                                                                                                                                                                                                                                                                      | -                                            |

| Hardware                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                            | Part No. / Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fixings               |
| <b>Cylinder</b>            | UAP (Ref: Zero Lift SXD) KM 561977 / 35/35 /<br>YALE (Ref: Anti-Bump Cylinder) KM 532920 / 35/35 /<br>Or an alternative cylinder and handle combination can be used that meets the requirements of PAS 24:2016 as stated below;<br>• Cylinder certified to BS EN 1303:2015 including Cylinder Vulnerability Assessment<br>• Cylinder certified to TS 007:2014 – 3 star level<br>• Cylinder certified to Sold Secure – Gold level<br>• Cylinder certified to PAS 24:2016 Annex A<br>• Combination of handle, cylinder & cylinder protection to have a minimum combined total of 3 star rating to TS 007:2014 (e.g. 1 star cylinder + 2 star handle or 1 star cylinder + 2 star cylinder protection) | M5 machine screw      |
| <b>Cylinder protection</b> | Paddock Fabrications (Ref. Cylinder guard 9101)<br>Ingenious Locks & Hardware (Ref. Cylinder guard 6101)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | M6 x 60 machine screw |
| <b>Handles</b>             | Handle:<br>Trojan Hardware & Design Ltd (Ref: Sparta) / 120 Lever /<br>Ingenious Locks and Hardware (Ref. 4000 / 4002 series) / 120 Lever                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | M6 x 60 screws        |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|                          | Total Hardware (Ref: Quantum / Endurance) / 120 Lever<br>Yale, TS007 2* Door pull (Polished chrome), code: YLKTCP                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                      |
| <b>Locking Mechanism</b> | Option 1: Paddock Fabrications (Ref: PL147-45-03) 45 wide<br>Option 2: YALE / Millenco / Assa Abloy (Ref: Mantis 3 MA80073) (Full faceplate) 40 wide<br>Option 3: YALE / Millenco / Assa Abloy (Ref: Mantis 3 MA85030) (20mm faceplate) 20 wide<br>Option 4: Ingenious Locks & Hardware (Ref. 1009 5 hook MPL) 20 wide<br>Option 5: Winkhaus AV2-F 2070/45 92/8 M2 (L/H and R/H) 20 wide<br>Option 6: Winkhaus, AV2 Heritage 2070/55, code: 5008984 L/H and 5008982 R/H.<br>Option 7: Ingenious Locks & Hardware 3 Latch Heritage 45mm Backset Autofire Lock 1044 with CPG Gimlet Point fixing | 4.3 x 32 screws into leaf                                                                                            |
| <b>Hinges</b>            | MILA Hardware (Ref: iDeal Butt Hinge 22260) 100 x 30<br>ERA (Ref. Challenger 3D Butt Hinge) 100 x 50<br>Winkhaus ECO Hinge 102 x 35<br>SFS 2D adjustable Butt Hinge 9016 Dynamic 2D                                                                                                                                                                                                                                                                                                                                                                                                            | 5.0 x 60 screws to Frame<br>4.5 x 40 screws to Leaf                                                                  |
| <b>Keeps</b>             | Option 1: Paddock Fabrications (Ref: PLK481-19 Keep set)<br>Option 2/3: YALE / Millenco / Assa Abloy (Ref: Mantis 3 keep set)<br>Option 4: Ingenious Locks & Hardware (Ref. 1146)<br>Option 5: Winkhaus AV2 F24 908W R/End MV1 Winkhaus F24-908W R/End U<br>Option 6: 2No. F24 908W AV2 MV1 R/End keeps FX4 (Silver), code: 4933948.<br>1No. F24-908W Centre keeps R/End U (Silver), code: 4937126 L/H and 4937125 R/H.                                                                                                                                                                        | 4.2 x 45 screws into frame<br>4.2 x 45 screws into frame<br>4.2 x 45 screws into frame<br>4.3 x 32 screws into frame |
| <b>Letter plate</b>      | Trojan 0793 TS008 Letterplate<br>Or alternative letterplate may be used that meets the requirements of TS008:2015 - Enhanced security grade 2                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                                                                    |

## Annex C – Product Details XtremeDoor Range PVC-U / Composite Doorset

| Door Leaf      |                                                                                                                                         |                                                                                                                                                                                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | Part No. / Material                                                                                                                     | Dimension (mm)                                                                                                                                                                                                                                                            |
| Door Panel     | Nan-Ya Plastics Corporation Standard Range (SBD) – 44.5mm GRP Faced Composite Door Blank                                                | 46P, 48P, 68P, 00P, 6FP<br>2mm skins + ABS central board<br>Refer to Min / Max sizes above<br>Product code carries “ES” Suffix                                                                                                                                            |
|                | DoorCo Ltd, GRP Composite 44 mm leaf<br>Internal/External skins + reinforcing, 2mm GRP<br>manufactured from SMC Core, polyurethane foam | 64C: 6 Panel & 4 panel long top<br>combo<br>4BT: 4 Panel Blank Top<br>6CT: 6 Line Cottage<br>VFL: Vertical Flush<br>GFL: Grooved Flush<br>4PA: 4 Panel Long Pre Aperture<br>3PA 3 Panel Sidelite<br>34L: ¾ Lite<br>CFM: Craftsman<br>PFL: Links Flush<br>MZF: Monza Flush |
| Door edges     | PVC-U edge banding to stiles                                                                                                            | 44 x 2 PUR Hotmelt adhesive                                                                                                                                                                                                                                               |
| Rain Deflector | Exitex Rain Deflector and Exitex Rain Deflector<br>Expelex CFNS                                                                         | 35 x 15 4No. 4 x 20 screws                                                                                                                                                                                                                                                |

| Door Frame     |                                                                                                                                                                                                                                                                 |                |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                | Part No. / Material                                                                                                                                                                                                                                             | Dimension (mm) |
| Head and Jambs | Eurocell Ultimate 70 (Ref: EWS 031)                                                                                                                                                                                                                             | 70 x 80        |
|                | Eurocell Ultimate 70 (Ref: EWS 032)                                                                                                                                                                                                                             | 70 x 65        |
|                | Eurocell Ultimate 70 (Ref: EWS 033)                                                                                                                                                                                                                             | 70 x 85        |
| Reinforcement  | PVC-U Extrusion for EWS031 profile<br>(Ref: EWS 831P) Location: Frame Jambs                                                                                                                                                                                     | 43 x 37        |
|                | PVC-U Extrusion for EWS 032 profile<br>(Ref:EWS 832P) Location: Frame Jambs                                                                                                                                                                                     | 43 x 22        |
| Threshold      | Exitex (Inward Opening):<br>UMT<br>MDS70<br>MDS80/2<br>MDS83<br>MDS25<br>MDS140<br>MDS150<br>MWK R2/20<br>MXS15/2/TB<br>Exitex (Outward Opening):<br>OUM<br>OUM/4<br>OUM/TD<br>OUM125<br>Stormguard: (Inward Opening): AM3<br>Stormguard (Outward opening): AM5 | -              |

|                        |                                                                                                                                                  |                                 |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Jointing Method</b> | Mechanically fixed to jamb reinforcement screwports or timber stub<br>4.3 x 20 screws (Threshold to Sill)<br>4.0 x 60 screws (Sill to Jamb stub) | -                               |
| <b>Sill</b>            | Eurocell Ultimate 70 (Ref: AC85 / BC85) -<br>Eurocell Ultimate 70 (Ref: AC150 / BC150)<br>Eurocell Ultimate 70 (Ref: AC180 / BC180)              | 85 x 30<br>150 x 30<br>180 x 30 |

| Perimeter sealing details |                                                                         |   |
|---------------------------|-------------------------------------------------------------------------|---|
|                           | <b>Description / Part No. / Material</b>                                | - |
| <b>Frame reveal</b>       | Option 1: Central Extrusions<br>Ref: B200<br>Type: Bubble gasket        | - |
|                           | Option 2: Eurocell Co-extruded gasket                                   | - |
|                           | Linear / Schlegel / Exitex<br>Type: Brush seal                          | - |
| <b>Seal continuity</b>    | Seals uninterrupted by hardware.<br>Brush seal interrupted by hardware. | - |

| Glazing & Infill                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
|                                            | <b>Description / Part No. / Material</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     |
| <b>Glass Configuration</b>                 | At least 1 pane must be class P1A according to BS EN 356                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                     |
| <b>Cassette internal and external face</b> | Nan-Ya plastics corporation clip and adhesive fixed glazing cassette system in standard styles:<br>MAS 9V: Sunburst<br>MAS 7B: Half Glazed Arch + Grid<br>MAS 7D: Twin Arch<br>MAS 9E/F: Eyebrow<br>MAS 9W: Half Moon<br>MAS 7A: Half Glazed Arch Top<br>MAS 9N: Twin Vertical<br>MAS 9Q: Half Glazed<br>MAS 7C: Half Glazed + Grid<br>MAS 9S: Twin tops<br>MAS 2F: Mid panel<br>MAS 9X: Oval<br>MAS 9Y: Diamond<br>MAS 7K: Centre panel (9 panel)<br>MAS 9M: Centre panel (8 panel)<br>MAS 7L: Low | -                                                     |
| <b>Gasket</b>                              | UK industrial tapes Ref: Foam 10 x 1.6<br>UK industrial tapes / A.E Harris & Co. Ltd Ref: Prolink 6mm / 10mm<br>PU grip adhesive                                                                                                                                                                                                                                                                                                                                                                    | Between leaf and cassette<br><br>Cassette fixing lugs |
| <b>Bead Fixings</b>                        | Clip fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                     |

| Glazing & Infill                           |                                                                                                                                                                                                                                                                                                                                                                                 |                                              |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|                                            | <b>Description / Part No. / Material</b>                                                                                                                                                                                                                                                                                                                                        | -                                            |
| <b>Glass Configuration</b>                 | At least 1 pane must be class P1A according to BS EN 356                                                                                                                                                                                                                                                                                                                        | -                                            |
| <b>Cassette internal and external face</b> | Door Co Craftsman 3 lite<br>ODL Cassettes TriSys range<br>Style 0806<br>Style 0836<br>Style 0836SR<br>Style 0836ST<br>Style 2236<br>Style 223609<br>Style 0718<br>Style HR01<br>Style HR05<br>Style 0824<br>Style 2236RT<br>Style 223611<br>Style 0707<br>Style 0864<br>Style 0764<br>Style 0848<br>Style 2248<br>ODL Cassettes CR range<br>Style 816<br>Style 817<br>Style 818 | -                                            |
| <b>Sealants</b>                            | 10mm x 1.5mm Prolink 1500R Bluefilmic liner (GB10)                                                                                                                                                                                                                                                                                                                              | Between leaf/cassette and glass and cassette |
| <b>Bead Fixings</b>                        | Screw fixed with decorative clip fix cover                                                                                                                                                                                                                                                                                                                                      | -                                            |

| Hardware                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                            | <b>Part No. / Material</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Fixings</b>        |
| <b>Cylinder</b>            | UAP (Ref: Zero Lift SXD) KM 561977 / 35/35 /<br>YALE (Ref: Anti-Bump Cylinder) KM 532920 / 35/35 /<br>Or an alternative cylinder and handle combination can be used that meets the requirements of PAS 24:2016 as stated below;<br>• Cylinder certified to BS EN 1303:2015 including Cylinder Vulnerability Assessment<br>• Cylinder certified to TS 007:2014 – 3 star level<br>• Cylinder certified to Sold Secure – Gold level<br>• Cylinder certified to PAS 24:2016 Annex A<br>• Combination of handle, cylinder & cylinder protection<br>to have a minimum combined total of 3 star rating to TS 007:2014 (e.g. 1 star cylinder + 2 star handle or 1 star cylinder + 2 star cylinder protection) | M5 machine screw      |
| <b>Cylinder protection</b> | Paddock Fabrications (Ref. Cylinder guard 9101)<br>Ingenious Locks & Hardware (Ref. Cylinder guard 6101)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | M6 x 60 machine screw |
| <b>Handles</b>             | Handle:<br>Trojan Hardware & Design Ltd (Ref: Sparta) / 120 Lever /<br>Ingenious Locks and Hardware (Ref. 4000 / 4002 series) / 120 Lever                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M6 x 60 screws        |

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|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                          | <p>Total Hardware (Ref: Quantum / Endurance) / 120 Lever<br/>Yale, TS007 2* Door pull (Polished chrome), code: YLKTCP</p> <p>Bar handles</p> <p>600mm Single Bar Handle Bolt Through &amp; 600mm Double Sided Bar Handle</p> <p>1200mm Single Bar Handle Bolt Through &amp; 1200mm Double Sided Bar Handle</p> <p>1800mm Single Bar Handle Bolt Through &amp; 1800mm Double Sided Bar Handle</p>                                                                                                                                                                                                                                      | Each bar handle type uses 12mm fixing holes                                                                                             |
| <b>Locking Mechanism</b> | <p>Option 1: Paddock Fabrications (Ref: PL147-45-03) 45 wide</p> <p>Option 2: YALE / Millenco / Assa Abloy (Ref: Mantis 3 MA80073) (Full faceplate) 40 wide</p> <p>Option 3: YALE / Millenco / Assa Abloy (Ref: Mantis 3 MA85030) (20mm faceplate) 20 wide</p> <p>Option 4: Ingenious Locks &amp; Hardware (Ref. 1009 5 hook MPL) 20 wide</p> <p>Option 5: Winkhaus AV2-F 2070/45 92/8 M2 (L/H and R/H) 20 wide</p> <p>Option 6: Winkhaus, AV2 Heritage 2070/55, code: 5008984 L/H and 5008982 R/H.</p> <p>Option 7: Ingenious Locks &amp; Hardware 3 Latch Heritage 45mm Backset Autofire Lock 1044 with CPG Gimlet Point fixing</p> | 4.3 x 32 screws into leaf                                                                                                               |
| <b>Hinges</b>            | <p>MILA Hardware (Ref: iDeal Butt Hinge 22260) 100 x 30</p> <p>ERA (Ref. Challenger 3D Butt Hinge) 100 x 50</p> <p>Winkhaus ECO Hinge 102 x 35</p> <p>SFS 2D adjustable Butt Hinge 9016 Dynamic 2D</p> <p>Nico Manufacturing White Icon Adjustable Hinge</p>                                                                                                                                                                                                                                                                                                                                                                          | <p>5.0 x 60 screws to Frame</p> <p>4.5 x 40 screws to Leaf</p>                                                                          |
| <b>Keeps</b>             | <p>Option 1: Paddock Fabrications (Ref: PLK481-19 Keep set)</p> <p>Option 2/3: YALE / Millenco / Assa Abloy (Ref: Mantis 3 keep set)</p> <p>Option 4: Ingenious Locks &amp; Hardware (Ref. 1146)</p> <p>Option 5: Winkhaus AV2 F24 908W R/End MV1 Winkhaus F24-908W R/End U</p> <p>Option 6: 2No. F24 908W AV2 MV1 R/End keeps FX4 (Silver), code: 4933948.</p> <p>1No. F24-908W Centre keeps R/End U (Silver), code: 4937126 L/H and 4937125 R/H.</p>                                                                                                                                                                                | <p>4.2 x 45 screws into frame</p> <p>4.2 x 45 screws into frame</p> <p>4.2 x 45 screws into frame</p> <p>4.3 x 32 screws into frame</p> |
| <b>Letter plate</b>      | <p>Trojan 0793 TS008 Letterplate</p> <p>Or alternative letterplate may be used that meets the requirements of TS008:2015 - Enhanced security grade 2</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                                                                                                       |