**PART 4**

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| **1.0** | **External Glazing Specifications to all Elevations**  NB existing entrance doors to west elevation are to be retained with only the upper windows to the entrance porch to be replaced.  See Veka website ([*vekauk.com*](part%204%20draft.docx)) for product details |
| 1.1 | The contract is to supply and install uPVC casement window and door arrangements, closely matching the layout as existing and approved drawings. |
| 1.2 | Frames are to be coupled and secured, by way of a combination of existing lightweight steel uprights in situ, together with a bespoke and fully reinforced coupling arrangement, essentially achieving a uPVC curtain wall arrangement and look (see further product details and specification). |
| 1.3 | Windows and doors are to be from the ‘Veka’ range of products, namely the ‘Veka Fully Sculptured Matrix FX70’ system and profile (as product data sheets available from *vekauk.com*) fully compatible with ‘Veka Screen and Curtain Walling’. All products fully A+ rated. |
| 1.4 | Internal beading options are to be included |
| 1.5 | Include ‘secured by design’ features. |
| 1.6 | Galvanised steel reinforcements. |
| 1.7 | Exceptional weather performance (see product literature). |
| 1.8 | U-values / thermal performance in excess of building regulations requirements (as attached product literature). |
| 1.9 | Frame depth of 70mm allowing a slim profile replacement closely matching the existing. |
| 1.10 | Other frame dimensions include a 56mm outer frame, 64mm mullions (generally) and 75mm sash. |
| 1.11 | All window and door handles are to be from the compatible ‘E-Series’ including a solid die cast zinc construction providing a heavyweight sturdy handle and feel, with heavy duty sprung latching wedge with a positive click on closing, 43mm window clearance for easy operation & patented cover caps with colour co-ordinated finish. |
| 1.12 | All doors to be fitted with commercial compatible high-performance multipoint door locking system, from the ‘Avantis 650 Series’. Locks are BSI and Secured By Design accredited weatherproofing and security performance assured through strategically positioned deep throw chamfered locking points and adjustable keeps. |
| 1.13 | All hardware tested to PAS24 and BS6375. |
| 1.14 | Door closers are to be from the ‘Ryobi D-3550 Series’. |
| 1.15 | Glass make up generally to be 28mm overall units, comprising 4mm soft coat toughened, with 18mm argon gas filled cavity and 6.8mm laminated and black warm edge spacer (west elevation to also include Pilkington Optifloat Grey). |

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| **2.0** | **Internal Glazing Specification to Mezzanine** |
| 2.1 | The contract is to supply and install commercial aluminium glazed screen spanning the full width of the mezzanine first floor, floor to ceiling in height and adjoined to a set of commercial aluminium fully glazed double doors. |
| 2.2 | Screen make up to be split equally to a maximum width of 1200mm centres, final design to be confirmed at detailed design stage. |
| 2.3 | Profile for the screen itself is to be from the ‘AluK’ range of thermally broken ‘GB 58BW / 58BD commercial square slide in’ profile / system. |
| 2.4 | Frame depth of 70mm and a width on elevation of 73mm (including beading). |
| 2.5 | Double doors are to be from the ‘AluK’ thermally broken commercial door range, namely the ‘Optio GT55 Commercial Entrance Doors’ providing the fullest and comprehensive PAS24, EN1191 and SBD certified system for commercial use. Including double acting central pivot door with open in and out options. |
| 2.6 | Anti-finger trap, low threshold, concealed hinges to be included. |
| 2.7 | Door locking to include either the ‘Sentinel M Multi Point Lock and / or ‘Sentinel M Panic and/or ‘Dorma 9800 Panic series, or a combination as detailed during the detailed design stage. |
| 2.8 | Door closer to be transom concealed from the ‘Dorma RTS 85’ range, providing the best aesthetic solution and most fit for purpose for this application. |
| 2.9 | Glass make up generally to be 28mm overall units, comprising 4mm soft coat toughened, with 18mm argon gas filled cavity and 6.8mm laminated and black warm edge spacer. |