

CRITTALL WINDOWS NBS SPECIFICATION
CORPORATE® W20 RANGE
MIDDLESEX SUITE

L10 - WINDOWS

316 STEEL WINDOWS AND DOORS:

- Manufacturer and reference: Crittall Windows Ltd, **Corporate® W20 range**
- Generally manufactured in accordance with BS 6510, W20 section
- Weathertightness: To BS 6375: Part 1
Exposure category (Design Wind Pressure): 1200/2000 (Pa) see Table AA
- For air permeability, watertightness and wind resistance data see Table AA
- Operation and strength characteristics: To BS 6375: Part 2
- Construction: All frames have welded corners and are flat and square within normal manufacturing dimensional tolerances of +/- 1.5 mm. Intermediate bars are hot tenon riveted
- Galvanizing: All components including steel attachments, coupling members and ancillaries: hot-dipped after manufacture to BS EN ISO 1461
- Glazing details: Site glazed with 14 mm & 16 mm insulating glass units comprising:

Clear Annealed

4mm Guardian Extra Clear annealed outer | 8mm krypton filled cavity with black spacer | 4mm Guardian ClimaGuard A 1.1 soft coat low-E annealed inner.

Clear Toughened

4mm Guardian Extra Clear toughened outer | 8mm krypton filled cavity with black spacer | 4mm Guardian ClimaGuard A 1.1 soft coat low-E toughened inner.

Obscure Annealed

4mm Stippolyte textured obscure annealed outer | 8mm krypton filled cavity with black spacer | 4mm Guardian ClimaGuard A 1.1 soft coat low-E annealed inner.

Curve on Plan (IPS Item 15)

4mm toughened PK hardcoat outer | 6mm krypton filled cavity with black spacer | 4mm toughened clear inner.

Glazing beads present no horizontal ledges on which dust and dirt can gather

- Weatherstripping: Gaskets complying with BS 4255: Part 1, manufactured from EPDM, secured into grooves of opening frame with adhesive
- Ironmongery/accessories: See clause 328
- Finish as delivered: Galvanized and Duralife™ (see clause 331) in a range of colours

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325 STEEL WINDOWS AND DOORS:

- Generally, all the foregoing
- Manufacturing undertaken in the Crittall factory by directly employed personnel
- Design testing, manufacture and installation carried out under Quality Management Systems certified to BS EN ISO 9001

328 IRONMONGERY/ACCESSORIES:

Outward Opening Side Hung Windows

- Weld on non-projecting hinges
- SWF B195 'Classic' non-locking handle in RTD (dark bronze) finish (natural brass finish strike plate)
- A SWF 'B375' peg stay in RTD (dark bronze) finish.

Outward Opening Top Hung Windows

- Weld on non-projecting hinges
- A SWF 'B375' peg stay in RTD (dark bronze) finish.

Outward Opening Top Hung Windows (IPS Item 14)

- Weld on non-projecting hinges
- A SWF 'B99S' folding opener incorporating a ring-eye, all in RTD (dark bronze) finish

Vertical Pivot Windows

- Friction cups
- SWF 'B195 'Classic' non-locking handle in RTD (dark bronze) finish (natural brass finish strike plate)

Outward-Opening Single Door

- Weld-on self-aligning HD hinges
- Friction top arm
- 300mm 97-325 SSS 300mm Straight Back to Back Pull Handles
- Deadbolt
- Thumb-turns
- 300mm facebolt

Outward-Opening Double Door

- Weld-on self-aligning hinges
- Friction top arm to both leaves
- A pair of 300mm 97-325 SSS 300mm Straight Back to Back Pull Handles to both leaf's
- Deadbolt to master door
- Shoot bolts top and bottom
- Thumb-turns

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Outward-Opening Double Door (IPS item 12)

- Weld-on self-aligning HD hinges
- Friction top arm to both leaves
- A pair of 300mm 97-325 SSS 300mm Straight Back to Back Pull Handles to both leaf's
- Deadbolt to master door
- Shoot bolts top and bottom
- Thumb-turns

331 FINISH COATING

- Type/reference: Epoxy free Duralife® polyester powder coating using Interpon D1036 powder
- To BS 6497
- Preparation: Following galvanizing, windows are chemically cleaned and pre-treated to provide a surface to which powder coating will adhere
- Covering: Minimum 60 microns on all significant surfaces
- Colours: Wide selection available. See Crittall Duralife® Standard Colour Guide
- Process: Coating will be undertaken in the same manufacturing plant as the frame fabrication

Table AA

TYPE OF OPENING LIGHT	EXPOSURE CATEGORY (Pa)	AIR PERMEABILITY: Not More Than 16m ³ /hr/m JOINT, AT (Pa)	WATER: NO LEAKAGE, AT (Pa)	WIND RESISTANCE: NO DAMAGE & ONLY PERMISSABLE DEFLECTION, AT (Pa)
Corporate™ W20				
Fixed Light	2000	300	300	2000
Side Hung Open Out	2000	300	300	2000
Top Hung Open Out	2000	300	300	2000
Vertical Pivot	1200	300	50	1200
Door - open out rebated outer frame	1200	300	100	1200

Notes:

1. Door performance relates to both single and double doors