

DORTEK SPECIFICATION SHEET

Part 1 - General

1.1 Sections include

- A. Window in a wall with Molded Fiberglass Composite frame
- B. Window in a wall with Stainless Steel frame

1.2 Related Sections

- A. Division 1 – General Conditions, Supplementary conditions
- B. Division 4 – Unit Masonry
- C. Division 8 – Finish Hardware
- D. Division 8 – Glass Glazing

1.3 Quality Assurance

A. General Qualifications

- 1. Manufacture Qualifications: A company that specializes in manufacturing Fiberglass doors and Frames with a minimum of 45 years experience.
- 2. Quality Assurance: All Windows are manufactured by DorteK to ensure consistent high quality.
- 3. Quality Assurance: Glass for windows shall be furnished per the Architects instructions and specifications.

Regulatory Requirements

- 1. Fire resistant glass is tested to UL10C, UBC 7-2 & UBC 7-4. Test were performed in accordance with UL9, UL10C CSFM 43.7, NFPA 80, NFPA 257UBC 43.2, UBC 43.4, UBC 7-2, UBC 7-4, CAN4 S-104. Approved for New York City: MEA 290-90-M-6. Approved for Los Angeles: LARR 25798
- 2. Laminate safety glass is CE marked and manufactures to EU construction products regulations EU 305/2011 & EN14449:2005 + AC:2005
- 3. Laminate interlayer is tested under PAPB001, PAPB002 (DIN EN ISO 4287), PAPB003, PAPB004, PAPB007 & PAPB005
- 4. The production of Radiation shielding glass is strictly controlled and manufactured in accordance with the Quality Standard ISO 9001, the Environmental Standard ISO 14001 and the Health & Safety Standard OHSAS 18001
- 5. Molded fiberglass composite fire rated window & frame construction conforms to fire standards of American UL10C, British BS476:22, European EN1634-1, Singapore SS332
- 6. Fiberglass fire rated frame mineral core is tested to EN 323 (Density), EN310 (Bend strength), EN319 (Tensile strength), EN317 (Water Absorption), EN222 (rest Moisture), ISO 1182 (Non-combustible).
- 7. Fiberglass frame resin is tested to Class 1 fire rating BS476 Part 7 & part 6 and M1 rating also French M1 rating to NFP 92-501 fire testing. Tensile strength / Modulus and Elongation are tested to BS EN ISO 527-4:1997, Flexible strength / modulus is tested to

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BS EN ISO 14125:1998: Notched Izod Impact is tested to BS EN ISO 180:2001. Heat deflection temperature to BS EN ISO 75 and 306. Compression strength and Modulus BS EN ISO 604. BARCOL - ASTM D-2583.

8. Concrete fire core is certified under CE marking ETA-11/0458, A1 class fire rating under EN13501-1, Thermal conductivity UB T1 275 & UB T1 289
9. Stainless steel grade 304 & 306 material specifications adhere to EN 10088-4:10, EN10028-7:08, EN 10088-2:05, AISI, ASTM A240/A240M-13, ASME SA 240, SA 240M SEC2 Part A-AD 2000 WO/W2/W10, PED 97/23/EC Sec 4.3.

1.4 Warranty

The window to include a year free from defects in material and workmanship from date of shipment and lifetime from corrosion from date of shipment, provided that the structural integrity of the window has not been violated or compromised, subject to terms and conditions as detailed in the Dortek Website www.Dortek.com.

1.5 Submittals

- A. Shop drawings include the following
 1. Elevation of each window
 2. Internal reinforcement
 3. Frame configuration, anchor position & spacing
- B. Product data including manufactures literature, fabrication descriptions and installation instructions
- C. Construction and/or color samples as requested.

1.6 DELIVERY, STORAGE AND PROTECTION

- A. Windows can be individually packaged in recyclable cardboard cartons or palletised. Cartons & pallets will be clearly labelled with project information and will include fixing/fasteners and installation instructions, if required. Only remove cardboard cartons upon arrival if cartons are wet or damaged.
- B. Deliver and storage at the job site in such a manner as to prevent damage; out of weather and/or extreme temperatures. The windows that are individually packaged shall only be stored in the vertical position and with nothing left on top of them.
- C. All damaged or otherwise unsuitable windows, when so ascertained shall be immediately removed from site.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

Only products that are manufactured by Dortek manufacturing facilities are acceptable. No substitutions may be considered.

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2.2 Window in wall with Molded Fiberglass Composite Frame

A. Fabrication: Molded fiberglass composite frames are produced as one homogenous void free piece. The frames shall be rigid, neat in appearance and free from defects.

Fabrication of fiberglass composite frames shall be shown on the drawings and in accordance with best shop practices. Field measurements shall be taken as required for coordinating with adjoining work.

1. Provide frames for windows as required
2. Fiberglass composite frames shall be produced with an average 50% glass content by weight
3. Frame members shall be standard 45degree mitre, providing neatly mitred corner connection, fabricated for field assembly (optional: one piece frame, resin bonded and assembled at factory).

2.4-Finish

- A. Seamless gelcoat Dp1 mill finish with draw lines in the vertical selected by Architect, from manufactures full range of colors
- B. Alternative frames are available in stainless steel grade 304.

PART 3 – EXECUTION

3.1- INSPECTION

Installer shall examine the substrate and conditions under which window is to be installed and notify the general contractor of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

3.2 – INSTALLATION

Windows will be delivered in individual cartons with identifying mark number listed on each carton. Alternatively large amount of doors may be delivered on pallets with identifying mark numbering on each Window on the pallet.

Install Windows in accordance with manufactures instructions and final shop drawings.

Provide clearance for Windows of 0.078 inch (2mm) at jams and heads

Fire labelled Windows must be installed by qualified installers.

3.4 – CLEANING

Remove dirt and excess sealant from exposed surfaces. Follow the manufacturer's recommended cleaning techniques and procedures for cleaning all surfaces. Only use cleaning products that will not scratch or damage the surfaces and are recommended by the manufacturer.