

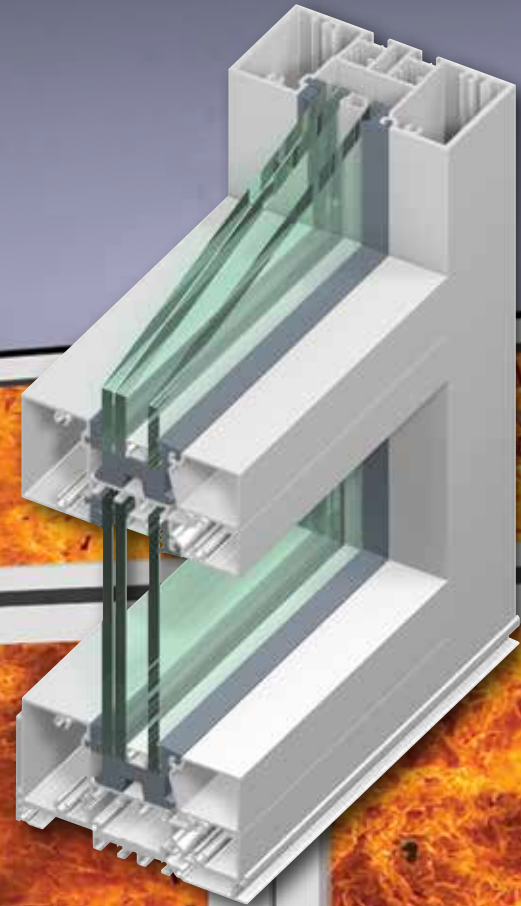


E/T34000 Storefront

Tubelite® ForceFront Blast E/T34000 Storefront is designed for compliance with ASTM, GSA ISC and DoD requirements for charge weight and standoff. This blast resistant screw-spline framing is designed to be glazed with 1-5/16" laminated glass positioned in the center of the frame. The system design was qualified using TE&C analysis, and blast protocols ASTM F2248 and UFC 4-101-0.

Forcefront Monumental Stile Entrance Doors compliment the 34000 storefront system providing a complete blast resistant system that's easy to fabricate and install.

A complete evaluation performed by a Professional Engineer is required for each project.

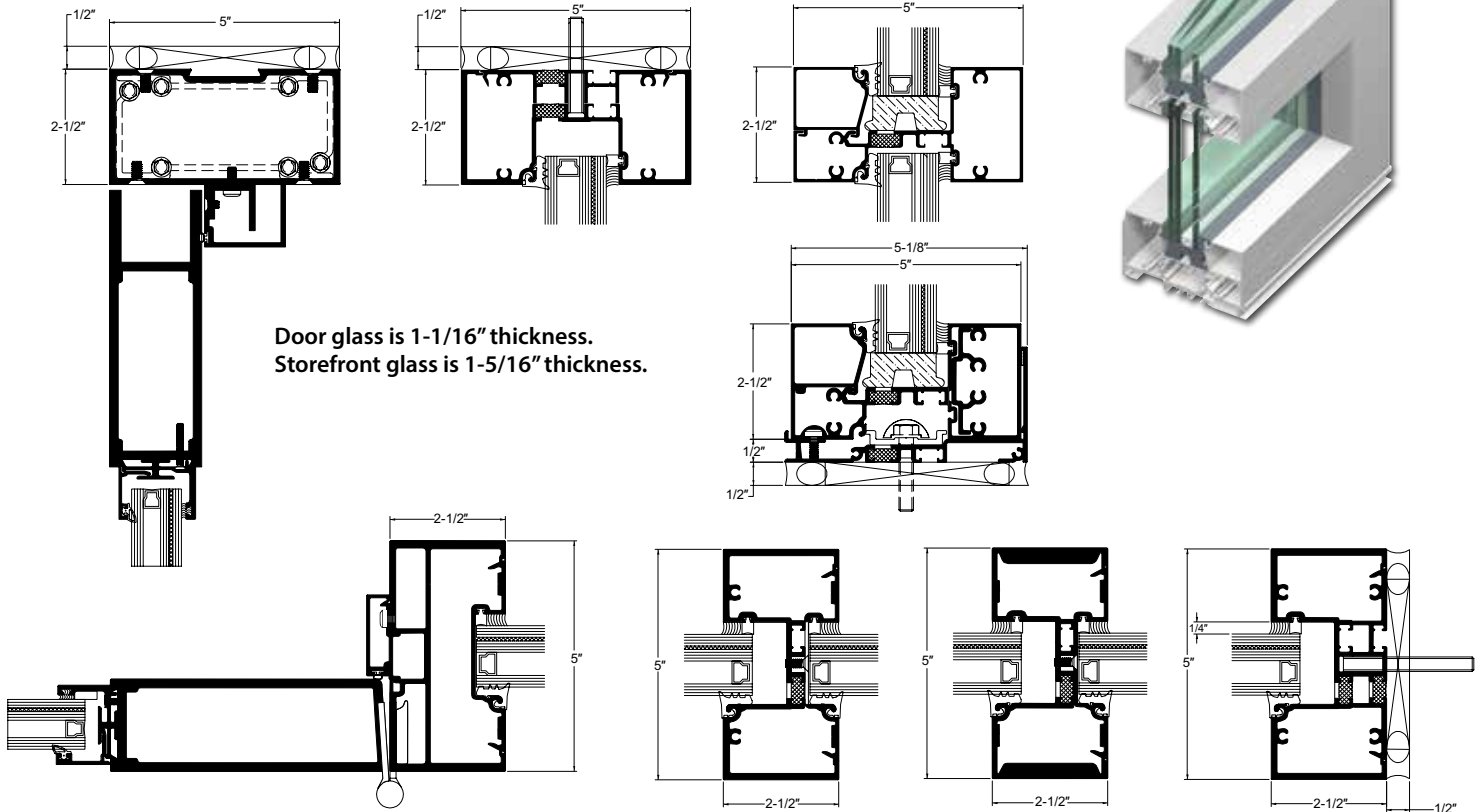


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LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS



Tubelite ForceFront Blast E/T34000 Storefront



Door glass is 1-1/16" thickness.
Storefront glass is 1-5/16" thickness.

ForceFront Blast E34000 Testing

- a. Arena and shock tube testing performed
- b. ASTM F 1642-04, UFC 4-010-01, GSA-TS01-2003 protocols
- c. Glass qualified: SG
- d. Testing results:
 - Exceeds 6 psi – 42 psi-msec
 - Charge weight of 550 lbs. at 153 ft. stand-off
- e. ForceFront E34000 has been analyzed in accordance with UFC 4-101-01 Oct. 2013 and ASTM F2248 Blast resistance criteria using calculation and SBEDS software, and has been found to comply with 148 ft stand-off Charge Weight I, and 82 ft Charge Weight II in illustrated configurations. Each project must be analyzed separately for compliance based on project-specific charges, standoffs, product sizes, and substrates, with shop drawings prepared for each project.

ForceFront Blast E/T34000 Series Product Specifications

System	Profile Size:	Water Infiltration Static & Dynamic	Test Pressure	Thermal Performance	Blast Rating	Sound Transmission	Inside HVHZ – Approved
ForceFront-Blast NonThermal SF E34000 -Wet Seal	2-1/2"x 5"	15 psf (TAS202)	+50/-50 (PVB) +70/-68 (VSO2/SG)	NA	Charge Weight I/II 148'/82' stand-off (per design based analysis)	36 STC 32 OTC	No
ForceFront-Blast Thermal SF T34000 -Wet Seal	2-1/2"x 5"	15 psf (TAS202)	+50/-50 (PVB) +58/-55 (VSO2/SG)	CRF – 59 OS U-value 0.37 OS	Charge Weight I/II 148'/82' stand-off (per design based analysis)	36 STC 32 OTC	No

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