



FIRE TROL® PREFABRICATED FIREPROOF COLUMN TYPES OS AND SO

Column configuration OS and SO are Fire Trol® columns designed as a prefabricated fireproof unit consisting of a load-bearing steel column encased in concrete and proprietary fireproofing materials which is permanently protected by an outer shell of nonload-bearing steel. All welding and any connections are done during the fabrication process in our plant in CT. Fire Trol® columns are rated and labeled by Underwriters Laboratories (UL) for fire retardant classification of 2, 3 and 4 hour rating as per ASTM E 119, as well as the latest specifications of the American Institute of Steel Construction (AISC), and the American Concrete Institute (ACI).

Model names:

- OS [Round shell casing with interior square structural column]
- SO [Square shell casing with interior round structural column]

VALIDATED ECO-DECLARATION

PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
References OS and SO	Life Cycle Assessment August 2025	Performance tests R3966 & R8199 UL testing valid for lifetime of product.
Final manufacturing location 164 School Street East Hartford CT, 06108 USA	Reference service life -	ASTM E119, ASTM A36/A36M, ASTM A123, ASTM A1003, ASTM A572/A572M, ASTM C150, ASTM C404, ASTM F3125/3125M, SSPC-Paint 20
Composition Steel pipe and steel tube, Concrete, Proprietary fireproofing material.	Product's carbon footprint -	
	Environmental Product Declaration Product-specific EPD, Type III ISO 14025:2006 August 2025 to August 2030	
ATTRIBUTES	INGREDIENTS AND EMISSIONS	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
Recycled content Pre-consumer: 2.2% - 7.2% Post-consumer: 6.0% - 47.4%	Declaration of chemical ingredients 1,000 ppm	ISO 14001 Certification -
Sourcing of raw materials Data collection from suppliers has been conducted for the products components aligned with each specific environmental analysis.	Type of declaration HPD® version 2.3 Health Product Declaration® July 2025 to July 2028	Extended Product Responsibility (Take Back Program) -
Certified Wood -	Emissions test -	Corporate Sustainability Report (CSR: GRI, ISO 26000, BNQ 21000 or others) -
Rapidly renewable materials -	VOC 2.76 lbs/gal (only for primer applied on steel at factory)	
Biobased materials -	Formaldehyde -	
	Others -	
		CERTIFICATION(S) & CONFORMITIES

Fire-Trol, specialized in prefabricated fireproof columns, is a division of United Steel. United Steel is a steel fabricator and erector of structural steel and miscellaneous metals, and is located in New England (USA).

164 School Street East Hartford CT, 06108
www.Fire-Trol.com

Master Format : 05 12 16
 Validated Eco-Declaration : VED25-1123-02
 Original issue date : 2025/08
 Period of validity : 2025/08 to 2026/08
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ENVIRONMENTAL DATA SHEET

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PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for Building Design + Construction (BD+C)

New Construction, Core and Shell, Schools, Retail, Data Centers, Warehouse and Distribution Centers, Hospitality and Healthcare.

LEED® v4 requirements for Interior Design + Construction (ID+C)

Commercial Interiors, Retail and Hospitality.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR	Building Product Disclosure and Optimization — Environmental Product Declaration (EPD) Option 1: Environmental Product Declaration (1 point) The product contributes to this credit due to the availability of a product-specific EPD Type III and is valued as 1 whole product out of the 20 needed for the purposes of credit achievement.	Contribute	ENVIRONMENTAL IMPACTS Product-specific EPD, Type III compliant to ISO 14025:2006
MR	Building Product Disclosure and Optimization — Sourcing of Raw Materials Option 2: Leadership extraction practices (1 point) Requirements - Use products that meet at least one of the responsible extraction criteria: Recycled content, Wood products Certification, Bio-based materials, Extended producer responsibility.	Contribute	ATTRIBUTES Recycled content Pre-consumer: 2.2% - 7.2% Post-consumer: 6.0% - 47.4%
MR	Building Product Disclosure and Optimization — Material Ingredients Option 1: Material ingredients reporting (1 point) The product contributes to this credit due to the availability of Health Product Declarations. They are valued as 1 whole product out of the 20 needed for the purposes of credit achievement.	Contribute	INGREDIENTS AND EMISSIONS HPD® version 2.3 Health Product Declaration®
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	Low-Emitting Materials Option 1: Product category calculation (1-3 points) Number of points is dependent on the LEED® rating system and the number of compliant categories. (Inherently nonemitting sources) Products that are inherently nonemitting sources of VOCs (stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solid wood) are considered fully compliant without any VOC emissions testing if they do not include integral organic-based surface coatings, binders, or sealants.	Contribute	INGREDIENTS AND EMISSIONS Material type steel and concrete are excluded from the scope of this credit as it is an inherently nonemitting source.

It is important to consider that the total amount of possible points reflects the number of achievable points in each credit category. The product itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to achieve LEED® credits.

The data included in this Environmental Data Sheet has been provided by the client and the suppliers, who are responsible for its veracity and its integrity. Vertima follows a rigorous protocol, including an on-site audit of the factory, an audit of the manufacturer's supply chain documentation, and the analysis and validation of all supporting documents. However, Vertima cannot be held responsible for false or misleading information that may cause any loss or damage suffered, caused in all or in part, by errors and omissions relative to the collection, compilation and/or interpretation of data.

Validated Eco-Declaration:

VEDVED25-1123-02

Period of validity:

2025/08 to 2026/08

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