



**BLACK ROCK
FIREPROOF COLUMN**
A DIVISION OF UNITED STEEL

THE PROOF IS IN THE COLUMN

Performance Fire Protection for Exposed Steel Columns

Prefabricated fireproof columns from Black Rock Fireproof Column provide aesthetically designed prefabricated fireproof building columns. Black Rock Fireproof Columns meet UL fire ratings and AISC certifications. Exposed steel columns offer fire protection while looking good and delivering cost savings to building owners.

Black Rock's prefabricated columns come in round, square, and rectangular profiles (along with customized shapes and sizes), designed for exposed exterior and interior loadbearing columns. You can admire our building columns in hospitals, schools, dormitories, cafeterias, shopping centers, and countless other structures.

The protective steel shells of our columns make them the premier choice for parking garages and high traffic entryways. Black Rock specializes in fireproofing steel building columns, structural steel WF, pipe, and HSS squares and rectangular shapes. We meet ASTM and AISC standards, and all steel and concrete meets or exceeds UL regulations.



Stylish Exposed Steel Columns with High Performance Fire Protection

Black Rock provides structural elements with architectural impact. At the same time we save owners cost and cut installation time.

- Factory column fireproofing (eliminating the need for field labor to apply other forms of fireproof coatings).
- Exacting quality control performed by our in-shop factory professionals.
- Decreased long-term maintenance costs and the added durability of exterior steel shells.
- Predictable scheduling as Black Rock Fireproof Column delivers to site completely fireproofed and prefabricated columns, ready for erection.
- No additional trades needed for on-site fire protection products.
- Added security and confidence of working with the AISC approved structural fireproof protection of Black Rock Fireproof Columns.

At Black Rock we have our own professional trucking fleet of 15 tractors and 40 trailers, which means we can assure on-time building column deliveries. We can also tap into a network of over-the-road trucking partners to meet peak customer demands.



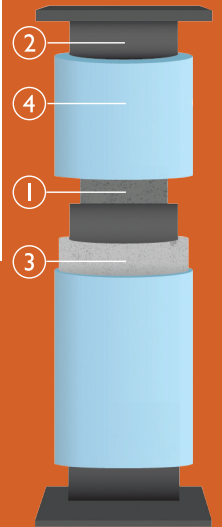
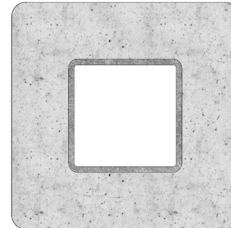
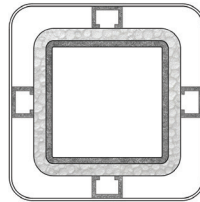
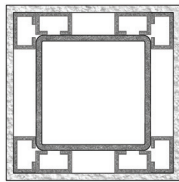
See Reverse for Cost Analysis →

Prefabricated Building Column Cost Comparisons

Steel column fire protection product costs. Based on a 10 × 10 column @ 12' tall (open shop rates).

	Sheetrock Encased 2 Layers, 2 HR, SS X106	Intumescent 2 HR Coatings	Spray on Fireproofing as per UL X716, 2 HR, 9/16" Thickness	Concrete Encased	BRFC "BRIDGEPORT" 2 HR TYPE SS X106
Labor	\$189	\$555	\$108	\$480	\$273
Material	\$207	\$562	\$103	\$600	\$350
Equipment	\$14	\$71	\$13	\$42	\$27
Column cover	----	----	\$1,575 – \$2,205	----	----
Onsite lost time	----	Three Days +Special Inspection	----	----	No Days Lost
Total Initial Cost	\$410	\$1,188	\$1,800 – \$2,430	\$1,122	\$650
Finished Size	15.25"	10.8"	16"	20"	12"

*Cost estimate created with 2018 Building Construction Costs based on RSMeans Data www.rsmeans.com



Building Columns with Multi Hour UL Fire Ratings

The diagram shows (1) Concrete (2) Structural Steel (3) Vermiculite Fireproofing, a special proprietary insulating material (4) Outer steel shell that permanently protects the fireproofing material.

Black Rock Fireproof Columns are rated and labeled by Underwriters Laboratories, Inc. for fire retardant classifications of 2, 3 and 4 hours. Columns are completely shop fabricated and shipped to the job site ready to erect.

Look to Black Rock as the manufacturers who specialize in fire proofing steel columns. We design, manufacture, and deliver the columns that capture the vision of architects, deliver on cost and integrity for engineers, and support the structures that delight occupants.



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