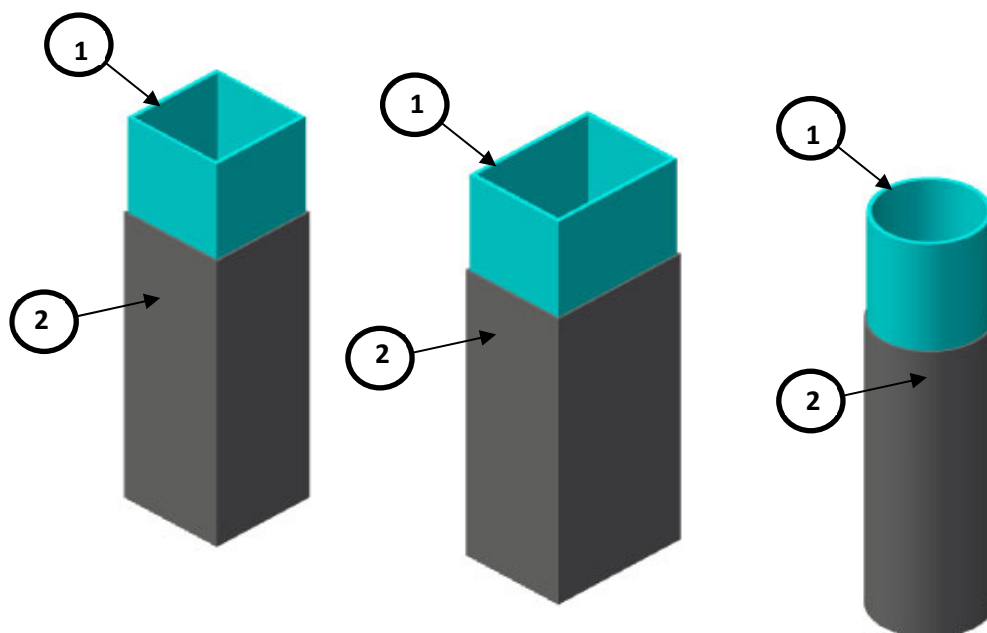


---

**Carboline Global Inc.**  
**Design No. CC/IF 180-04**  
**Column**  
**Fire Film IV**  
**ASTM E119, UL 263, CAN/ULC-S101**  
**Rating: See Table CC/IF 180-04**

---



**1. HOLLOW STRUCTURAL STEEL COLUMN:** Use hollow square, rectangular, or circular steel sections, having nominal  $H_p/A$ , or  $A/P$  section factors based on four-sided exposure. Prior to application of FireFilm IV (Item 2), column shall be prepared and coated with a compatible primer recommended by the manufacturer.

**2. CERTIFIED MANUFACTURER:** Carboline Global Inc.

**CERTIFIED PRODUCT:** Intumescent Fireproofing

**CERTIFIED MODEL:** FireFilm IV

Spray or paint one or more coats according to manufacturer's instructions to the required thickness specified in Table CC/IF 180-04.



**Table CC/IF 180-04**

| <b>Hp/A</b> | <b>A/P</b>                 | <b>90 minutes</b> |            | <b>120 minutes</b> |            | <b>150 minutes</b> |            | <b>180 minutes</b> |            |
|-------------|----------------------------|-------------------|------------|--------------------|------------|--------------------|------------|--------------------|------------|
| <b>1/m</b>  | <b>in.<sup>2</sup>/in.</b> | <b>mm</b>         | <b>in.</b> | <b>mm</b>          | <b>in.</b> | <b>mm</b>          | <b>in.</b> | <b>mm</b>          | <b>in.</b> |
| 169         | 0.23                       | 4.84              | 0.190      | 5.70               | 0.225      | -                  | -          | -                  | -          |
| 114         | 0.35                       | 3.68              | 0.145      | 5.02               | 0.198      | 6.37               | 0.251      | 7.71               | 0.304      |
| 73          | 0.51                       | 2.35              | .093       | 3.60               | 0.142      | 5.26               | 0.207      | 7.00               | 0.275      |

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

*Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.*