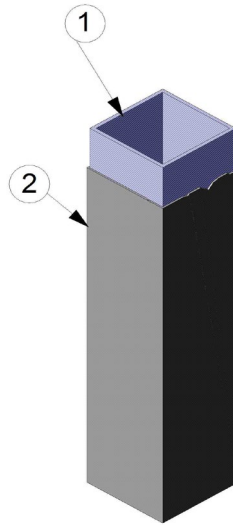


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**Sherwin-Williams Protective & Marine Coatings**  
**Design No. SWC/IF 180-02**  
**Column**  
**FIRETEX™ FX9502**  
**ASTM E119/CAN-ULC-S101**  
**Assembly Rating: See Table SWC/IF 180-02**

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**Figure 1**

- 1. HOLLOW RECTANGULAR OR CIRCULAR STRUCTURAL STEEL COLUMN:** Use hollow steel sections, rectangular or circular shape, having nominal  $H_p/A$ ,  $W/D$ , or  $A/P$  section factors based on four-sided exposure.
- 2. FIRE RESISTIVE COATING:** Refer to Table SWC/IF 180-02 for specific application thickness.

**APPLICATION:** Blast and clean structural steel per the manufacturer's instructions. As an option, spray-apply Sherwin-Williams FIRETEX™ C69 Fast-Tack Blast Primer (not shown) per the manufacturer's instructions. Spray-apply FIRETEX™ FX9502 Fire Resistive Coating onto bare or primed steel to the required final thicknesses per the manufacturer's instructions.

**CERTIFIED MANUFACTURER:** Sherwin-Williams Protective & Marine Coatings

**CERTIFIED PRODUCT:** Fire Resistive Coating

**CERTIFIED MODEL:** FIRETEX™ FX9502



**Table SWC/IF 180-02**  
**Fire Resistance Time in Minutes**

| Hp/A<br>(1/m) | W/D<br>(lb./ft./in.) | 60 min |       | 90 min |       | 120 min |       | 150 min |       | 180 min |       | 210 min |       |
|---------------|----------------------|--------|-------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|               |                      | mm     | in.   | mm     | in.   | mm      | in.   | mm      | in.   | mm      | in.   | mm      | in.   |
| 60            | 2.23                 | 0.60   | 0.023 | 2.43   | 0.096 | 4.26    | 0.168 | 7.33    | 0.289 | 9.50    | 0.374 | 11.81   | 0.465 |
| 65            | 2.06                 | 0.81   | 0.032 | 2.73   | 0.107 | 4.65    | 0.183 | 7.66    | 0.302 | 9.87    | 0.389 | 12.16   | 0.479 |
| 70            | 1.91                 | 1.02   | 0.040 | 3.03   | 0.119 | 5.04    | 0.199 | 7.98    | 0.314 | 10.24   | 0.403 | 12.51   | 0.493 |
| 75            | 1.79                 | 1.23   | 0.048 | 3.33   | 0.131 | 5.43    | 0.214 | 8.31    | 0.327 | 10.61   | 0.418 | 12.87   | 0.507 |
| 80            | 1.67                 | 1.44   | 0.057 | 3.63   | 0.143 | 5.83    | 0.229 | 8.63    | 0.340 | 10.98   | 0.432 | 13.22   | 0.520 |
| 85            | 1.58                 | 1.65   | 0.065 | 3.93   | 0.155 | 6.22    | 0.245 | 8.96    | 0.353 | 11.35   | 0.447 | 13.57   | 0.534 |
| 90            | 1.49                 | 1.86   | 0.073 | 4.23   | 0.167 | 6.61    | 0.260 | 9.28    | 0.365 | 11.72   | 0.462 | 13.92   | 0.548 |
| 95            | 1.41                 | 2.07   | 0.081 | 4.54   | 0.179 | 7.00    | 0.276 | 9.60    | 0.378 | 12.09   | 0.476 | 14.27   | 0.562 |
| 100           | 1.34                 | 2.28   | 0.090 | 4.84   | 0.190 | 7.39    | 0.291 | 9.93    | 0.391 | 12.46   | 0.491 | 14.63   | 0.576 |
| 105           | 1.28                 | 2.49   | 0.098 | 5.14   | 0.202 | 7.79    | 0.307 | 10.25   | 0.404 | 12.84   | 0.505 | 14.98   | 0.590 |
| 110           | 1.22                 | 2.70   | 0.106 | 5.44   | 0.214 | 8.18    | 0.322 | 10.58   | 0.416 | 13.21   | 0.520 | 15.33   | 0.604 |
| 115           | 1.16                 | 2.91   | 0.115 | 5.74   | 0.226 | 8.57    | 0.337 | 10.90   | 0.429 | 13.58   | 0.535 | 15.68   | 0.617 |
| 120           | 1.12                 | 3.12   | 0.123 | 6.04   | 0.238 | 8.96    | 0.353 | 11.23   | 0.442 | 13.95   | 0.549 | 16.04   | 0.631 |
| 125           | 1.07                 | 3.33   | 0.131 | 6.34   | 0.250 | 9.35    | 0.368 | 11.55   | 0.455 | 14.32   | 0.564 | 16.39   | 0.645 |
| 130           | 1.03                 | 3.54   | 0.139 | 6.64   | 0.262 | 9.75    | 0.384 | 11.87   | 0.467 | 14.69   | 0.578 | 16.74   | 0.659 |
| 135           | 0.99                 | 3.75   | 0.148 | 6.94   | 0.273 | 10.14   | 0.399 | 12.20   | 0.480 | 15.06   | 0.593 | 17.09   | 0.673 |
| 140           | 0.96                 | 3.96   | 0.156 | 7.25   | 0.285 | 10.53   | 0.415 | 12.52   | 0.493 | 15.43   | 0.607 | 17.44   | 0.687 |
| 145           | 0.92                 | 4.17   | 0.164 | 7.55   | 0.297 | 10.92   | 0.430 | 12.85   | 0.506 | 15.80   | 0.622 | 17.80   | 0.701 |
| 150           | 0.89                 | 4.38   | 0.173 | 7.85   | 0.309 | 11.31   | 0.445 | 13.17   | 0.519 | 16.17   | 0.637 | 18.15   | 0.714 |
| 155           | 0.86                 | 4.59   | 0.181 | 8.15   | 0.321 | 11.71   | 0.461 | 13.50   | 0.531 | 16.54   | 0.651 | 18.50   | 0.728 |
| 160           | 0.84                 | 4.80   | 0.189 | 8.45   | 0.333 | 12.10   | 0.476 | 13.82   | 0.544 | 16.91   | 0.666 | 18.85   | 0.742 |
| 165           | 0.81                 | 5.01   | 0.197 | 8.75   | 0.345 | 12.49   | 0.492 | 14.14   | 0.557 | 17.28   | 0.680 | 19.20   | 0.756 |
| 170           | 0.79                 | 5.22   | 0.206 | 9.05   | 0.356 | 12.88   | 0.507 | 14.47   | 0.570 | 17.65   | 0.695 | 19.56   | 0.770 |
| 175           | 0.77                 | 5.43   | 0.214 | 9.35   | 0.368 | 13.27   | 0.523 | 14.79   | 0.582 | 18.03   | 0.710 | 19.91   | 0.784 |
| 180           | 0.74                 | 5.64   | 0.222 | 9.65   | 0.380 | 13.67   | 0.538 | 15.12   | 0.595 | 18.40   | 0.724 | 20.26   | 0.798 |
| 185           | 0.72                 | 5.85   | 0.230 | 9.96   | 0.392 | 14.06   | 0.553 | 15.44   | 0.608 | 18.77   | 0.739 | 20.61   | 0.812 |
| 190           | 0.71                 | 6.06   | 0.239 | 10.26  | 0.404 | 14.45   | 0.569 | 15.76   | 0.621 | 19.14   | 0.753 | 20.97   | 0.825 |
| 195           | 0.69                 | 6.27   | 0.247 | 10.56  | 0.416 | 14.84   | 0.584 |         |       |         |       |         |       |
| 200           | 0.67                 | 6.49   | 0.255 | 10.86  | 0.428 | 15.23   | 0.600 |         |       |         |       |         |       |
| 205           | 0.65                 | 6.70   | 0.264 | 11.16  | 0.439 | 15.62   | 0.615 |         |       |         |       |         |       |
| 210           | 0.64                 | 6.91   | 0.272 | 11.46  | 0.451 | 16.02   | 0.631 |         |       |         |       |         |       |
| 215           | 0.62                 | 7.12   | 0.280 | 11.76  | 0.463 | 16.41   | 0.646 |         |       |         |       |         |       |
| 220           | 0.61                 | 7.33   | 0.288 | 12.06  | 0.475 | 16.80   | 0.661 |         |       |         |       |         |       |



**Table SWC/IF 180-02 (Continued)**  
**Fire Resistance Time in Minutes**

| Hp/A<br>(1/m) | W/D<br>(lb./ft./in.) | 60 min |       | 90 min |       | 120 min |       | 150 min |     | 180 min |     | 210 min |     |
|---------------|----------------------|--------|-------|--------|-------|---------|-------|---------|-----|---------|-----|---------|-----|
|               |                      | mm     | in.   | mm     | in.   | mm      | in.   | mm      | in. | mm      | in. | mm      | in. |
| 225           | 0.60                 | 7.54   | 0.297 | 12.36  | 0.487 | 17.19   | 0.677 |         |     |         |     |         |     |
| 230           | 0.58                 | 7.75   | 0.305 | 12.67  | 0.499 | 17.58   | 0.692 |         |     |         |     |         |     |
| 235           | 0.57                 | 7.96   | 0.313 | 12.97  | 0.511 | 17.98   | 0.708 |         |     |         |     |         |     |
| 240           | 0.56                 | 8.17   | 0.322 | 13.27  | 0.522 | 18.37   | 0.723 |         |     |         |     |         |     |
| 245           | 0.55                 | 8.38   | 0.330 | 13.57  | 0.534 | 18.76   | 0.739 |         |     |         |     |         |     |
| 250           | 0.54                 | 8.59   | 0.338 | 13.87  | 0.546 | 19.15   | 0.754 |         |     |         |     |         |     |
| 255           | 0.53                 | 8.80   | 0.346 | 14.17  | 0.558 | 19.54   | 0.769 |         |     |         |     |         |     |
| 260           | 0.52                 | 9.01   | 0.355 | 14.47  | 0.570 | 19.94   | 0.785 |         |     |         |     |         |     |

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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.