

# ROOF DECK FIRE RESISTANCE RATINGS

| Restrained Assembly Rating | Type of Protection               | Classified Deck Type                    | U.L. Design No. (2, 3, 4) | Unrestrained Beam Rating |
|----------------------------|----------------------------------|---|---------------------------|--------------------------|
| 1 Hr.                      | <b>EXPOSED GRID SYSTEM</b>       | F                                       | P201                      | 1                        |
| 1                          |                                  | F, B                                    | P211                      | 1                        |
| 3/4                        |                                  | F, B                                    | P214                      | 3/4                      |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV        | P216                      | 1                        |
| 1                          |                                  | F, B                                    | P224                      | 1                        |
| 1                          |                                  | F, B                                    | P225                      | -                        |
| 1                          |                                  | F, B                                    | P227                      | 1                        |
| 1                          |                                  | F, B                                    | P230                      | -                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV        | P231                      | -                        |
| 1                          |                                  | F, B                                    | P232                      | 1                        |
| 1                          |                                  | F, B                                    | P235                      | 1                        |
| 1                          |                                  | F, B                                    | P238                      | 1                        |
| 1                          |                                  | F, B                                    | P243                      | 1                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV        | P246                      | -                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV        | P251                      | 1                        |
| 1                          | SF, SVF, HF, HVF, EF, EVF, B, BV | P255                                    | 1                         |                          |
| 1                          | <b>GYPSUM BOARD</b>              | EF, EVF, BV, B, F                       | P509                      | 1                        |
| 1                          |                                  | EF, EVF, BV, B, F                       | P510                      | 1                        |
| 1                          |                                  | EF, EVF, BV, B, F                       | P513                      | 1                        |
| 1                          | <b>CEMENTITIOUS</b>              | F, B, N                                 | P701                      | 1                        |
| 1                          |                                  | F, B, N                                 | P709                      | 1                        |
| 1                          |                                  | F, B, N                                 | P710                      | 1                        |
| 1                          |                                  | F, B, N                                 | P711                      | 1                        |
| 1                          |                                  | F, B, N                                 | P713                      | 1                        |
| 1                          |                                  | F, B, N                                 | P714                      | 1                        |
| 1                          |                                  | F, B, N                                 | P715                      | 1                        |
| 1                          |                                  | F, B, N                                 | P717                      | 1                        |
| 1                          |                                  | F, B, N                                 | P719                      | 1                        |
| 1                          |                                  | F, B, N                                 | P725                      | 1                        |
| 1                          |                                  | F, B, N                                 | P726                      | 1                        |
| 1                          |                                  | F, B, N                                 | P731                      | 1                        |
| 1                          |                                  | F, B, N                                 | P734                      | 1                        |
| 1                          |                                  | F, B, N                                 | P735                      | 1                        |
| 1                          |                                  | F, B, N                                 | P736                      | 1                        |
| 1                          | F, B, N                          | P738                                    | 1                         |                          |
| 1                          | F, B, N                          | P740                                    | 1                         |                          |
| 1                          | <b>SPRAYED FIBER</b>             | F, B, N                                 | P801                      | 1                        |
| 1                          |                                  | F, B, N                                 | P811                      | 1                        |
| 1                          |                                  | F, B, N                                 | P813                      | 1                        |
| 1                          |                                  | F, B, N                                 | P815                      | 1                        |
| 1                          |                                  | F, B, N                                 | P816                      | 1                        |
| 1                          |                                  | F, B, N                                 | P817                      | 1                        |
| 1                          |                                  | F, B, N                                 | P818                      | 1                        |
| 1                          | F, B, N                          | P819                                    | 1                         |                          |
| 1                          | <b>UNPROTECTED</b>               | SF, HF, EF, B, F                        | P901                      | 1                        |
| 1                          |                                  | SF, HF, EF, B, F, N                     | P902                      | 1                        |
| 1                          |                                  | SF, HF, EF, B, F                        | P903                      | 1                        |
| 1                          |                                  | SF, HF, EF, B, F, N                     | P907                      | 1                        |
| 1                          |                                  | SF, HF, EF, B, F, N                     | P908                      | 1                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV, N, NV | P919                      | 1                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV, N, NV | P920                      | 1                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV, N, NV | P921                      | 1                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV, N, NV | P922                      | 1                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV, N, NV | P923                      | 1                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV        | P924                      | 1                        |
| 1                          |                                  | SF, SVF, HF, HVF, EF, EVF, B, BV        | P925                      | 1                        |

**NOTES:**

1. Refer to the U.L. "Fire Resistance Directory" for the necessary construction details.
2. Deck finish shall be galvanized

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|----------------------------|----------------------------|----------------------------------|---------------------------|--------------------------|
| 1 1/2                      | <b>EXPOSED GRID SYSTEM</b> | F, B                             | P225                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P227                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P230                      | 1                        |
| 1 1/2                      |                            | SF, SVF, HF, HVF, EF, EVF, B, BV | P231                      | 1 1/2                    |
| 1 1/2                      |                            | SF, HF, EF, F, B                 | P251                      | 1 1/2                    |
| 1 1/2                      | <b>METAL LATH</b>          | F, B                             | P404                      | -                        |
| 1 1/2                      | <b>CEMENTITIOUS</b>        | F, B                             | P701                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P709                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P711                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P713                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P714                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P715                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P717                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P719                      | 1 1/2                    |
| 1 1/2                      | <b>SPRAYED FIBER</b>       | F, B                             | P801                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P811                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P813                      | 1 1/2                    |
| 1 1/2                      |                            | F, B                             | P815                      | 1 1/2                    |
| 1 1/2                      | <b>UNPROTECTED</b>         | SF, HF, EF, B                    | P902                      | 1 1/2                    |
| 1 1/2                      |                            | SF, HF, EF, B                    | P907                      | 1 1/2                    |
| 1 1/2                      |                            | SF, HF, EF, B                    | P908                      | 1 1/2                    |
| 1 1/2                      |                            | SF, HF, EF, B                    | P919                      | 1 1/2                    |
| 1 1/2                      |                            | SF, HF, EF, B                    | P920                      | 1 1/2                    |
| 1 1/2                      |                            | SF, SVF, HF, HVF, EF, EVF, B, BV | P921                      | 1 1/2                    |
| 1 1/2                      |                            | SF, SVF, HF, HVF, EF, EVF, B, BV | P922                      | 1 1/2                    |
| 1 1/2                      |                            | SF, SVF, HF, HVF, EF, EVF, B, BV | P923                      | 1 1/2                    |
| 1 1/2                      |                            | SF, SVF, HF, HVF, EF, EVF, B, BV | P924                      | 1 1/2                    |
| 1 1/2                      |                            | SF, SVF, HF, HVF, EF, EVF, B, BV | P925                      | 1 1/2                    |
| 2                          | <b>EXPOSED GRID SYSTEM</b> | SF, HF, EF, B                    | P215                      | -                        |
| 2                          |                            | SF                               | P219                      | -                        |
| 2                          |                            | F, B                             | P237                      | 2                        |
| 2                          |                            | SF, HF, EF, B                    | P241                      | 2                        |
| 2                          |                            | SF, HF, EF, B                    | P251                      | 2                        |
| 2                          | <b>METAL LATH</b>          | F, B                             | P404                      | -                        |
| 2                          |                            | F, HF, EF, B                     | P407                      | -                        |
| 2                          | <b>CEMENTITIOUS</b>        | F, B                             | P701                      | 2                        |
| 2                          |                            | F, B                             | P709                      | 2                        |
| 2                          |                            | F, B                             | P711                      | 2                        |
| 2                          |                            | F, B                             | P713                      | 2                        |
| 2                          |                            | F, B                             | P714                      | 2                        |
| 2                          |                            | F, B                             | P715                      | 2                        |
| 2                          |                            | F, B                             | P717                      | 2                        |
| 2                          |                            | F, B                             | P719                      | 2                        |

**NOTES:**

1. Refer to the U.L. "Fire Resistance Directory" for the necessary construction details.
2. Deck finish shall be galvanized

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|----------------------------|--------------------|----------------------------------|---------------------------|--------------------------|
| 2                          | SPRAYED FIBER      | F, B                             | P801                      | 2                        |
| 2                          |                    | F, B                             | P811                      | 2                        |
| 2                          |                    | F, B                             | P815                      | 2                        |
| 2                          | UNPROTECTED        | SF, HF, EF, B                    | P902                      | 2                        |
| 2                          |                    | SF, HF, EF, B                    | P907                      | 2                        |
| 2                          |                    | SF, HF, EF, B                    | P908                      | 2                        |
| 2                          |                    | SF, SVF, HF, HVF, EF, EVF, B, BV | P920                      | 2                        |
| 2                          |                    | SF, SVF, HF, HVF, EF, EVF, B, BV | P921                      | 2                        |
| 2                          |                    | SF, SVF, HF, HVF, EF, EVF, B, BV | P922                      | 2                        |
| 2                          |                    | SF, SVF, HF, HVF, EF, EVF, B, BV | P923                      | 2                        |
| 2                          |                    | SF, SVF, HF, HVF, EF, EVF, B, BV | P924                      | 2                        |
| 2                          |                    | SF, SVF, HF, HVF, EF, EVF, B, BV | P925                      | 2                        |
| 3                          | METAL LATH         | SF, HF, EF, B                    | P405                      | -                        |
| 3                          | CEMENTITIOUS       | F, B                             | P713                      | 3                        |
| 3                          |                    | F, B                             | P719                      | 3                        |
| 3                          | SPRAYED FIBER      | F, B                             | P811                      | 3                        |

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## FACTORY MUTUAL APPROVED GAGE / SPAN TABLE (1.5" – Deep Roof Deck)

| GAGE | TYPE | SPAN |
|------|------|------|
| 22   | B    | 6-0  |
| 20   | B    | 6-6  |
| 18   | B    | 7-5  |

Subject to the conditions of approval as steel roof deck when installed as described in the current edition of the FMRC Approval Guide.