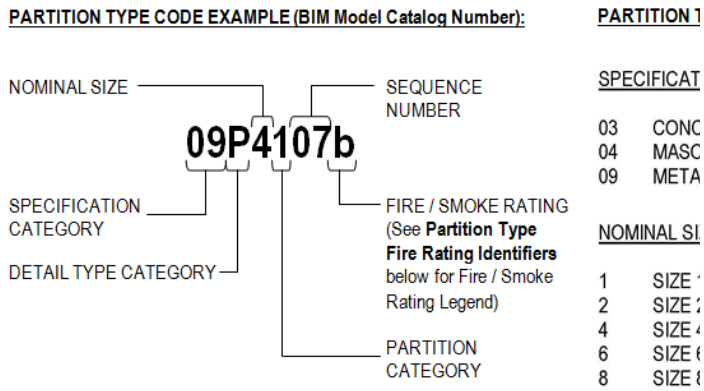
# APPENDIX 4 – INTERIOR PARTITIONS, FIRE-RATED PARTITIONS AND SMOKE BARRIERS

## INTERIOR PARTITION TYPES

### PARTITION TYPE CLASSIFICATION AND NAMING:

A different partition type is to be created for each type of wall used in the project. The following system is an example used to classify, organize, and manage partition types within the BIM model. It's used to help project teams establish a naming convention for cataloging all partition types in the model:




### INTERIOR PARTITION TYPE PARAMETERS

The "Wall-Interior Partition" defines the elements and must be included as required. Partition information must be scheduled.

### WALL SCHEDULE

Each partition type holds parameters containing descriptions of its components and its construction which is shown in the schedule:

**Partition Type Code:** A constant code to catalog partition types**

**Type Mark:** Construction Document Partition Type Number* * Different for each project (see *Partition Type Number* below)

**Assembly Code:** Defines wall at an Industry Level*

**Description:** Description of wall in BIM**

Example of Information built within a partition type:

| Parameter | Value |
|---|---|
| **Identity Data** | |
| Keynote | |
| Model | |
| Manufacturer | |
| Type Comments | |
| URL | http://www.gp.com/build/page |
| Description | 3 5/8" Metal Stud, 5/8" Gypsum |
| Assembly Description | Partitions - Drywall w/ Metal Stud |
| Assembly Code | C1010145 |
| Type Mark | 19b |
| Fire Rating | 1HR |
| Cost | |
| Partition Type Code | 09P4107b |
| Fire Test # | U465 |
| Sound Test # | RAL TL99-103 |
| UL URL | |
| USG Fire Test URL | |
| STC | 45-49 |
| Specification | |

* Define for use in contract documents

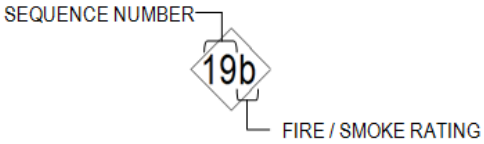
** Model management information (Not provided for specific contract document use)

| PARTITION SCHEDULE | | | | |
|---|---|---|---|---|
| Type Mark | Partition Type Code | Description | Area | Length |
| | | | | |
| 16 | 09P4101 | 3 5/8" Metal Stud, 5/8" Gypsum Board on 2 Sides 6" above Ceiling | 15730 SF | 1792' - 8 1/4" |
| 17 | 09P4103 | 3 5/8" Metal Stud, 5/8" Gypsum Board on 1 Side 6" above Ceiling | 41227 SF | 8645' - 4 3/4" |
| 18 | 09P4105 | 3 5/8" Metal Stud, 5/8" Gypsum Board on 1 Side at Full Height | 3420 SF | 291' - 11 5/8" |
| 19 | 09P4107 | 3 5/8" Metal Stud, 5/8" Gypsum Board on 2 Sides at Full Height | 226 SF | 19' - 10 7/8" |
| 19b | 09P4119b | 3 5/8" Metal Stud, 5/8" Gypsum Board, Fire Resistant, on 2 Sides at Full Height | 10666 SF | 1063' - 5 5/8" |
| 19bs | 09P4107bs | 3 5/8" Metal Stud, 5/8" Gypsum Board on 2 Sides at Full Height | 1283 SF | 182' - 6 1/4" |
| 20c | 09P4109c | 3 5/8" Metal Stud, 2 layer of 5/8" Gypsum Board on 2 Sides at Full Height | 1391 SF | 82' - 7" |
| 21 | 09P4111 | 3 5/8" Metal Stud, 5/8" Gypsum Board on both sides- half height | 2957 SF | 321' - 4 1/8" |
| 21bs | 09P4111bs | 3 5/8" Metal Stud, 5/8" Gypsum Board on 1 Side at Full Height | 472 SF | 66' - 0 1/4" |
| 26 | 09P4201 | 3 5/8" Metal Stud, Batt Insulation, 5/8" Gypsum Board on 1 Side at Full Height | 9372 SF | 778' - 4 5/8" |
| | | | 86743 SF | 13244' - 3 1/4" |

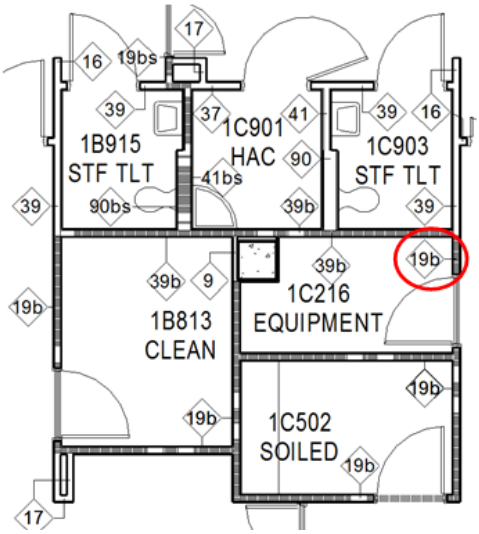
**INTERIOR PARTITION TYPE NUMBER**

The "Type Mark" from the schedule above relates to the construction document partition type number. It is a project specific number allowing appropriate construction document partition type number sequencing. This number which is held in the 3D partition gets tagged in plan and relates to the partition type details:

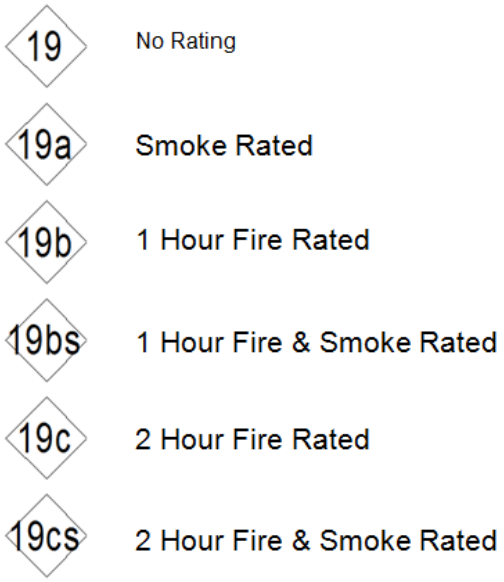
**TYPE MARK**




Interior Partition Type tagged in plan:

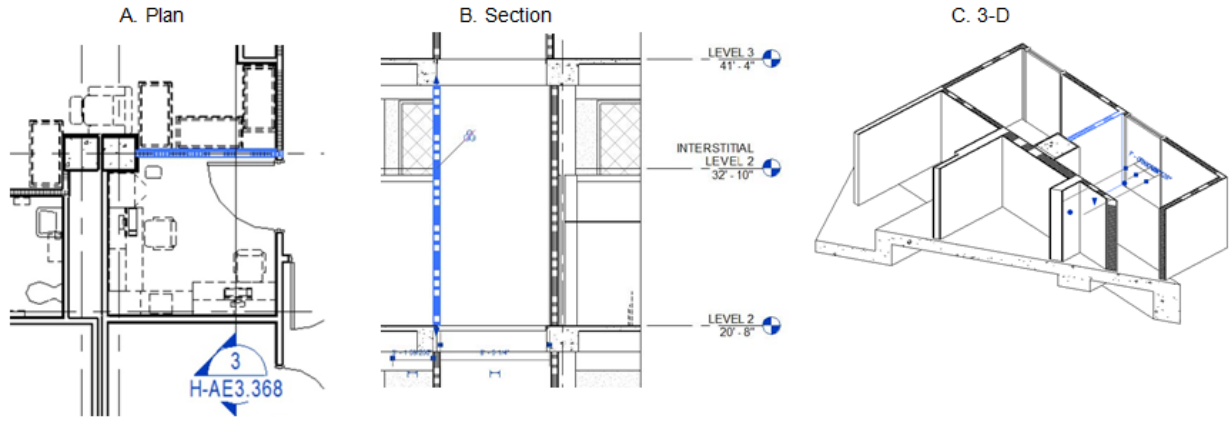



Interior Partition Type Fire Rating Legend:




Continue the progression of letters in the format above for ratings above 2 Hours.

**FIRE-RATED PARTITIONS AND SMOKE BARRIERS**

Fire rating/smoke fill patterns are to be constructed within a 3D wall type so that the partition's respective rating is shown through all scales and through all types of views.

**Examples of patterns showing through a variety of view-types:**