

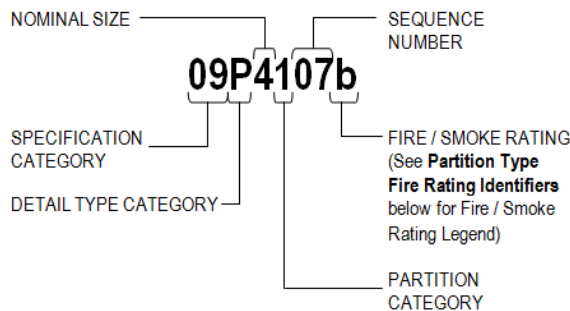
# APPENDIX 4 – INTERIOR PARTITIONS, FIRE-RATED PARTITIONS AND SMOKE BARRIERS

## 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:

**PARTITION TYPE CODE EXAMPLE (BIM Model Catalog Number):**



**PARTITION TYPE CODE LEGEND (Character examples to define other wall types):**

SPECIFICATION CATEGORY		DETAIL TYPE CATEGORY	
03	CONCRETE PARTITION	P	PARTITIONS
04	MASONRY PARTITION		
09	METAL STUD PARTITION		

NOMINAL SIZE		PARTITION CATEGORY	
1	SIZE 1" CORE	1	PARTITIONS W/ NO INSULATION
2	SIZE 2" CORE	2	PARTITIONS W/ INSULATION
4	SIZE 4" CORE	3	PARTITIONS W/ TILE
6	SIZE 6" CORE	4	PARTITIONS W/ LEAD LINING
8	SIZE 8" CORE	5	PARTITIONS W/ SECURITY MESH

### 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\*

Example of Information built within a partition type:

Parameter	Value
<b>Identity Data</b>	
Keynote	
Model	
Manufacturer	
Type Comments	
URL	<a href="http://www.gp.com/build/page">http://www.gp.com/build/page</a>
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)

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

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:

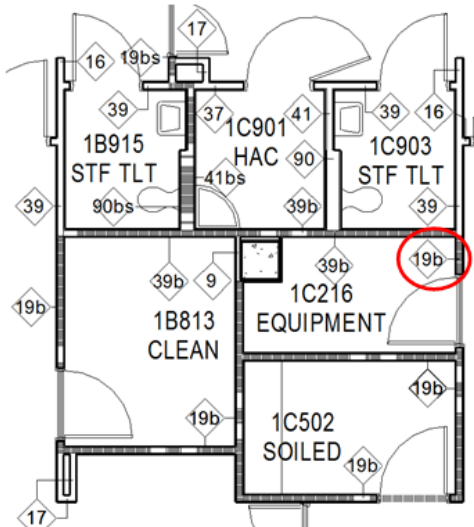
**TYPE MARK**

SEQUENCE NUMBER



FIRE / SMOKE RATING

Interior Partition Type tagged in plan:



Interior Partition Type Fire Rating Legend:



No Rating



Smoke Rated



1 Hour Fire Rated



1 Hour Fire & Smoke Rated



2 Hour Fire Rated

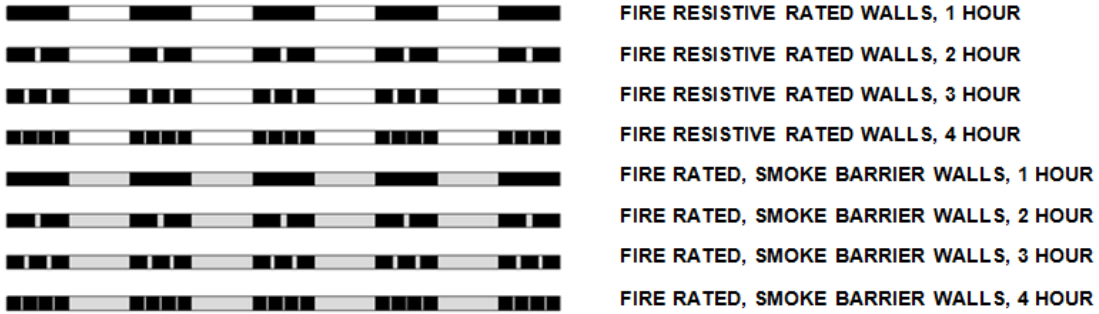


2 Hour Fire & Smoke Rated

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:

