Part 1 - General

1.1 Summary

.1 Unless otherwise indicated, follow the standards below when specifying gypsum board assemblies. These standards are not intended to restrict or replace professional judgment.

1.2 Design Requirements

.1 For each application, partitions and ceilings assemblies shall be designed in accordance with steel studs and drywalls manufacturers’ published recommendations (stud depth, gauge and spacing, gypsum board thickness and type, etc.). Maximum stud spacing shall be 16” (406 mm) c/c.

.2 Specify plywood sheet reinforcing within gypsum board assemblies required to support equipment, furnishings, shelving or other wall anchored element. Confirm required locations with the Project Manager early in the design stage. Gypsum board assemblies shall be designed to effectively support not only the weight of the wall mounted element itself but also of the load this element is intended to support.

.3 Clearly mark the fire-rating of gypsum board assemblies on all drawings.

.4 High-traffic areas:

.1 High-traffic areas are defined as spaces subject to damages resulting from many people moving through, many people moving within, from frequent use of carts or frequent bulky equipment transport. Stairways, hallways, and elevators lobbies shall always be considered “high-traffic areas”.

.2 The first 4 feet (1220mm) from the finished floor of gypsum board walls in high traffic areas shall meet the requirements for high traffic areas described in article 2.2.

.3 Wall studs in high-traffic areas shall be continuous on the full height of the wall and spaced at a maximum of 305mm (12”) c/c.

.4 The bottom part of wall corners in high-traffic areas shall be protected with corner guards on at least the first 4 feet (1220mm) from the top of the baseboard.

Part 2 - Products

2.1 Preferred Products

.1 The threshold level of compliance with the General Emissions Evaluation standards listed in 01 84 19 for walls must be met by 100%.

.2 For products with low VOC emissions that may contribute to LEED® v4 EQ Credit Low-Emitting Materials, refer to:

.1 UL Environment http://productguide.ulevirement.com

.3 For products with recycled content that may contribute to LEED® v4 MR Credit Building Product Disclosure and Optimization – Sourcing of Raw Materials, refer to:
.3 UL Environment [http://productguide.ulenvironment.com](http://productguide.ulenvironment.com)

.4 For products with a manufacturer inventory and/or with Health Product Declarations (HPDs), for LEED® v4 MR Credit Building Product Disclosure and Optimization – Material Ingredients, refer to:

.1 Declare Product Database [www.living-future.org/declare-products](http://www.living-future.org/declare-products)

.5 Materials that are locally sourced (extracted, manufactured, and purchased) within 160 km (100 miles) are preferred and will increase cost values for credit calculations in the Materials and Resources Building Product Disclosure and Optimization credits.

### 2.2 Material Requirements

.1 Typical gypsum partition shall consist of 92 mm steel studs spaced at 406mm (16") with 16 mm (5/8") thick gypsum board on each side.

.2 Where waterproof gypsum is required, specify CGC Fiberock Aqua-Tough or approved equivalent.

.3 Where fire rated gypsum is required, specify CGC Sheetrock Firecode or approved equivalent. Thickness of panels shall be in accordance with the required fire rating required for the assembly.

.4 Steel studs shall be galvanized and not less than 25 gauge thick.

.5 Plastic trims are not acceptable for gypsum boards assemblies.

.6 Corner guards shall be of 18 gauge (1.3mm) type 304, satin finish stainless steel:

.1 3 ½” x 3 ½” (89mm x 89mm) wings, 4 feet (1220mm) long,
.2 Pre-drilled for countersunk screws.

.7 High-traffic areas

.1 Gypsum boards assemblies in high-traffic areas shall meet the following criteria of ASTM C1629 - *Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels.*

.1 Surface Abrasion Resistance shall meet level III requirements.
.2 Indentation Resistance shall meet level III requirements.
.3 Soft Body Impact Resistance shall meet level III requirements.
.4 Hard Body Impact Resistance shall meet level III requirements.
.5 Steel studs shall be galvanized and no less than 20 gauges.
.2 Gypsum Boards finishes to receive a paint finish shall meet Level 5 of the Gypsum Association’s publication GA-214 – Recommended Levels of Gypsum Board Finish.

.1 Specify CGC Tuff-Hide primer-surfacer combining skim-coat and primer or approved equivalent.

END OF SECTION