

# **GYPSON BOARD SYSTEMS - SECTION 09250**

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Use this guide specification to specify gypsum drywall systems by U.S. Gypsum Co., incorporating specially shaped light gage steel framing members for construction of load bearing and non-load bearing, non-rated and fire-rated partitions. Review a copy of USG publication SA-923 and SA-924 before editing this specification.

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Use the following for ALL Systems. Re-number and re-letter after making all selections. Delete all bolded instructions.

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## **PART 1 GENERAL**

### **1.01 SECTION INCLUDES**

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Select Systems paragraphs from Articles 1.05 through 1.15. In this Article use the paragraphs under the bolded [Systems selected in 1.05 through 1.15] shown below. Delete bolded [Systems] and paragraphs not used.

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[System AA], [System AB], [System AC], [System AD], [System F], [System L], [System BK], [System BU]

- A. Steel framed, non-load bearing interior gypsum board partitions.

[System CA], [System CB], [System CE], [System CF]

- A. Steel framed, load bearing interior gypsum board partitions.

[System DA], [System DB], [System DC], [System DD]

- A. Steel framed interior gypsum board soffits.

[System EA], [System EB], [System EE], [System EG], [System EI]

- A. Steel framed interior gypsum board ceilings.

[System FA], [System FB], [System FC], [System FD]

- A. Steel framed interior gypsum board furring.

[System GA], [System GB], [System GF], [System GG], [System GH]

- A. Steel framed interior gypsum board column fireproofing.

[System HA], [System HB]

- A. Steel framed interior gypsum board beam fireproofing.

[System NA], [System NB], [System PA], [System PD], [System PJ]

- A. Wood framed, load bearing interior gypsum board partitions.

[System PO], [System PP]

- A. Wood framed, load bearing exterior walls.

[System QA], [System QB]

- A. Wood framed interior gypsum board soffits.

[System RA], [System RB], [System SA], [System SF], [System SL], [System SP], [System SQ]

- A. Wood framed interior gypsum board ceilings.

[System TA], [System TB]

- A. Wood framed interior gypsum board furring.

## **1.02 SECTION DOES NOT INCLUDE**

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If any of the bolded [Systems] in this Article were selected in Article 1.01, use the paragraph under the bolded [Systems] shown below. Delete bolded [Systems] and paragraphs not used.

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[System EE], [System EF], [System EI]

- A. Concrete; see Division 3 Sections.

[System GA], [System GB], [System GF], [System GG], [System GH], [System HA], [System HB]

- A. Structural Steel; see Division 5 Sections.

[System EE], [System EF], [System EI]

- A. Steel Joist; see Division 5 Sections.

[System NA], [System NB], [System PA], [System PD], [System PJ], [System PO], [System PP], [System QA], [System QB], [System RA], [System RB], [System SA], [System SF], [System SP], [System SQ]

A. Wood Framing; see Division 6 Sections.

[System SL]

A. Wood Trusses; see Division 6 Sections.

[System EB], [System SL], [System SP], [System SQ]

A. Wood Subflooring and Flooring; see Division 6 Sections.

[System FD], [System PO]

A. Rigid Foam Insulation; see Division 7 Sections.

[System SP]

A. Ceramic Tile; see Division 9 Sections.

[System SP], [System SQ]

A. Resilient Flooring; see Division 9 Sections.

[System SQ]

A. Type F Flooring; see Division 9 Sections.

[System SP], [System SQ]

A. Carpets And Pads: see Section 09680-Carpet.

\*\*\*\*\*Use the following for ALL Systems.\*\*\*\*\*

### **1.03 REFERENCES**

A. See Section 01091-Reference Standards.

### **1.04 DEFINITIONS**

- A. Adhere: Fasten with adhesive.
- B. Attach: Fasten with steel screws, power-driven or non-power-driven.
- C. Horizontal: Long dimension of board or insulation perpendicular to studs or other framing members.
- D. Inside: That space between studs and between inside faces of inner board faces or above ceiling boards.

- E. Position: Place without attaching or adhering.
- F. Top Side: Above principal floor or ceiling framing.
- G. Underside: Below framing systems to which ceiling boards are mounted.
- H. Vertical: Long dimension of board or insulation parallel with studs or other framing members.
- I. Abbreviations: See Section 01092-Abbreviations.

\*\*\*\*\*Use this Article Title if project contains this partition type.\*\*\*\*\*

### **1.05 STEEL FRAMED, NON-LOAD BEARING INTERIOR PARTITIONS**

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Select one or more of the following System paragraphs. Delete those not selected

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#### A. Interior Partition; System AA:

1. Non-rated, non-load bearing. Framing - Steel studs @ 24 in. o.c. Single layer construction; 1/2 in. gypsum boards. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs.

#### A. Interior Partition; System AB:

1. Non-rated, non-load bearing. Framing - steel studs @ 24 in. o.c. Single layer construction; 1/2 in. gypsum boards. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs; inside - insulation friction-fit between studs.

#### A. Interior Partition; System AC:

1. Non-rated, non-load bearing. Framing - steel studs @ 24 in. o.c. Single layer construction; 5/8 in. gypsum boards. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs.

#### A. Interior Partition; System AD:

1. Non-rated, non-load bearing. Framing - steel studs @ 24 in. o.c. Single layer construction; 5/8 in. gypsum boards. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs; inside - insulation friction-

fit between studs.

A. Interior Partition; System F:

1. UL Design U465, 1 hr, STC 40, non-load bearing. Framing - steel studs @ 24 in. o.c. Single layer construction. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs; perimeter - calked.

A. Interior Partition; System F:

1. UL Design U465, 1 hr, STC 49, non-load bearing. Framing - steel studs @ 24 in. o.c. Single layer construction. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs; inside - insulation vertical, friction-fit between studs; perimeter - calked.

A. Interior Partition; System F:

1. UL Design U465, 1 hr, STC 51, non-load bearing. Framing - steel studs @ 24 in. o.c. Single layer construction. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs; inside - insulation creased then friction-fit between studs; perimeter - calked.

A. Interior Partition; System L:

1. UL Design U412, 2 hr, STC 50, non-load bearing. Framing - steel studs @ 24 in. o.c. Double layer construction. Left side - vertical gypsum baseboards attached to studs, vertical gypsum face boards attached through baseboards to studs; right side - vertical gypsum baseboards attached to studs, vertical gypsum face boards attached to studs through baseboards; perimeter - calked.

A. Interior Partition; System L:

1. UL Design U412, 2 hr; STC 55, non-load bearing. Framing - steel studs @ 24 in. o.c. Double layer construction. Left side - vertical gypsum baseboards attached to studs, vertical or horizontal gypsum face boards attached through baseboards to studs; right side - vertical gypsum baseboards attached to studs, vertical or horizontal gypsum face boards attached to studs through baseboards; inside - insulation friction-fit between studs; perimeter - calked.

A. Interior Partition; System L:

1. UL Design U412, 2 hr, STC 52, non-load bearing. Framing - steel studs @ 24 in. o.c. Double layer construction. Left side - vertical

gypsum baseboards attached to studs, vertical or horizontal  
gypsum face boards adhered to baseboards; right side - vertical  
gypsum baseboards attached to studs, vertical or horizontal  
gypsum face boards adhered to baseboards; inside - insulation  
friction-fit between studs; perimeter - calked.

A. Interior Partition; System L:

1. UL Design U412, 2 hr, STC 54, non-load bearing. Framing - steel studs @ 24 in. o.c. Double layer construction. Left side - vertical gypsum baseboards attached to studs, vertical or horizontal gypsum face boards attached through baseboards to studs; right side - vertical or horizontal gypsum baseboards attached to studs, vertical gypsum face boards attached to studs through baseboards; inside - insulation friction-fit between studs; perimeter - calked.

A. Interior Partition; System BK:

1. UL Design U491, 2 hr, STC 50, non-load bearing. Single layer construction. Framing - steel studs @ 24 in. o.c. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs; inside - insulation friction-fit between studs; perimeter - calked.

A. Interior Partition; System BQ:

1. UL Design U435, 3 hr, non-load bearing. Framing - steel studs @ 24 in. o.c. Three layer construction. Left side - inner vertical gypsum baseboards attached to studs, outer vertical gypsum baseboards attached to studs, horizontal gypsum face boards attached to studs through baseboards; right side - inner vertical gypsum baseboards attached to studs, outer vertical gypsum baseboards attached to studs, horizontal gypsum face boards attached to studs through baseboards; perimeter - calked.

A. Interior Partition; System BU:

1. UL Design U490, 4 hr, STC 56, non-load bearing. Framing - steel studs @ 24 in. o.c. Double layer construction. Left side - vertical gypsum baseboards attached to studs, vertical or horizontal gypsum face boards attached to studs through baseboards; right side - vertical gypsum baseboards attached to studs, vertical or horizontal gypsum face boards attached to studs through baseboards; inside - insulation friction-fit between studs; perimeter - calked.

\*\*\*\*\*Use this Article Title if project contains this partition type.\*\*\*\*\*

## 1.06 STEEL FRAMED, LOAD BEARING INTERIOR PARTITIONS

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Select one or more of the following System paragraphs. Delete those not selected

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### A. Interior Partition; System CA:

1. UL Design U425, 45 min., STC 47, load bearing. Framing - steel studs @ 24 in. o.c. Single layer construction. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs; inside - insulation friction-fit between studs.

### A. Interior Partition; System CB:

1. UL Design U425, 1 hr, STC 40, load bearing. Framing - steel studs @ 24 in. o.c. Single layer construction. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs.

### A. Interior Partition; System CB:

1. UL Design U425, 1 hr, STC 41, load bearing. Framing - steel studs @ 24 in. o.c. Single layer construction. Left side - vertical gypsum face boards attached to studs; right side - vertical gypsum face boards attached to studs; inside - insulation friction-fit between studs.

### A. Interior Partition; System CE:

1. UL Design U425, 2 hr, STC 48, load bearing. Framing - steel studs @ 24 in. o.c. Double layer construction. Left side - vertical gypsum baseboards attached to studs, vertical gypsum face boards attached to studs through baseboards; right side - vertical gypsum baseboards attached to studs, vertical gypsum face boards attached to studs through baseboards; inside - insulation friction-fit between studs.

### A. Interior Partition; System CE:

1. UL Design U425, 2 hr, STC 49, load bearing. Framing - steel studs @ 24 in. o.c. Double layer construction. Left side - vertical gypsum baseboards attached to studs, vertical gypsum face boards attached to studs through baseboards; right side - vertical gypsum baseboards attached to studs, vertical gypsum face boards attached to studs through baseboards; inside - insulation friction-fit between studs.

A. Interior Partition; System CF:

1. UL Design U425, 3 hr, load bearing. Framing - steel studs @ 24 in. o.c. Four layer construction. Left side - inner vertical gypsum baseboards attached to studs, middle vertical gypsum baseboards attached to studs through baseboards, outer vertical gypsum baseboards attached to studs through baseboards, vertical or horizontal gypsum face boards attached to studs through baseboards; right side - inner vertical gypsum baseboards attached to studs, middle vertical gypsum baseboards attached to studs through baseboards, outer vertical gypsum baseboards attached to studs through baseboards, vertical or horizontal gypsum face boards attached to studs through baseboards; inside - insulation friction-fit between studs.

\*\*\*\*\*Use this Article Title if project contains this soffit type.\*\*\*\*\*

**1.07 STEEL FRAMED SOFFITS**

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Select one or more of the following System paragraphs. Delete those not selected.

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A. Interior Soffit; System DA:

1. Braced: Framing - vertical and horizontal steel stud framing @ 24 in. o.c. Single layer construction. Horizontal gypsum face boards attached to studs.

A. Interior Soffit; System DB:

1. Unbraced: Framing - horizontal steel stud framing @ 24 in. o.c. Single layer construction. Horizontal gypsum face boards attached to studs.

A. Interior Soffit; System DC:

1. Braced: Framing - vertical and horizontal steel stud framing @ 24 in. o.c. Single layer construction. Horizontal gypsum face boards attached to studs.

A. Interior Soffit; System DD:

1. Unbraced: Framing - horizontal steel stud framing @ 24 in. o.c. Single layer construction. Horizontal gypsum face boards attached to studs.



\*\*\*\*\*Use this Article Title if project contains this ceiling type.\*\*\*\*\*

## **1.08 STEEL FRAMED CEILINGS**

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Select one or more of the following System paragraphs. Delete those not selected.

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### **A. Interior Gypsum Board Ceiling; System EA:**

1. Non-rated. Framing - steel cold-rolled channels @ 4 ft. o.c. and metal furring channels @ 24 in. o.c. Single layer construction. Underside - horizontal gypsum face boards attached to furring channels.

### **A. Interior Gypsum Board Ceiling; System EB:**

1. UL Design L524, 1 hr, STC 39. Framing - heavy gage steel channel joists @ 24 in. o.c. Double layer construction. Top side - tongue and groove plywood subflooring; underside - horizontal gypsum baseboards attached to joists; horizontal gypsum face boards attached to joists through baseboards.

### **A. Interior Gypsum Board Ceiling; System EB:**

1. UL Design L524, 1 hr, STC 43. Framing - heavy gage steel channel joists @ 24 in. o.c. Double layer construction. Top side - tongue and groove plywood subflooring; underside - horizontal gypsum baseboards attached to joists; horizontal gypsum face boards attached to joists through baseboards; inside - sound insulation loose laid atop baseboards.

### **A. Interior Gypsum Board Ceiling; System EB:**

1. UL Design L524, 1 hr, IIC 56. Framing - heavy gage steel channel joists @ 24 in. o.c. Double layer construction. Top side - carpet and pad over tongue and groove plywood subflooring; underside - horizontal gypsum baseboards attached to joists; horizontal gypsum face boards attached to joists through baseboards.

### **A. Interior Gypsum Board Ceiling; System EB:**

1. UL Design L524, 1 hr, IIC 60. Framing - heavy gage steel channel joists @ 24 in. o.c. Double layer construction. Top side - carpet and pad over tongue and groove plywood subflooring; underside - horizontal gypsum baseboards attached to joists; horizontal gypsum face boards attached to joists through baseboards; inside - sound insulation loose laid atop baseboards.

A. Interior Gypsum Board Ceiling; System EE:

1. UL Design G529, 2 hr. Framing - steel joists @ 24 in. o.c. Single layer construction. Top side - concrete deck on metal lath; underside - inverted Tee ceiling grid suspended from joists; main runners @ 4 ft. o.c., cross tees @ 2 ft. o.c.; underside - horizontal gypsum face boards attached to grid.

A. Interior Gypsum Board Ceiling; System EG:

1. UL Design G529, 2 hr. Framing - steel joists @ 24 in. o.c. Single layer construction. Top side - concrete deck on metal lath; underside - metal furring channels @ 24 in o.c. attached to joists; horizontal gypsum face boards attached to metal furring channels.

A. Interior Gypsum Board Ceiling; System EI:

1. UL Design G512, 3 hr. Framing - steel joists @ 24 in. o.c. Single layer construction. Top side - concrete on metal deck; underside - metal furring channels @ 24 in o.c. attached to joists; horizontal gypsum face boards attached to furring channels.

\*\*\*\*\*Use this Article Title if project contains this furring type.\*\*\*\*\*

## **1.09 STEEL FRAMED FURRING**

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Select one or more of the following System paragraphs. Delete those not selected.

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A. Exterior Wall Furring; System FA:

1. Non-rated. Vertical metal furring channels @ 24 in. o.c. Single layer construction. Vertical gypsum face boards attached to channels.

A. Exterior Wall Furring; System FB:

1. Non-rated. Vertical Z-furring channels @ 24 in. o.c. Single layer construction. Vertical gypsum face boards attached to channels; inside - sound insulation between channels.

A. Exterior Wall Furring; System FC:

1. Non-rated. Vertical steel studs @ 24 in. o.c. Single layer construction. Vertical gypsum face boards attached to studs.

A. Exterior Wall Furring; System FD:

1. Non-rated. Vertical Z-furring channels @ 24 in. o.c. Single layer construction. Vertical gypsum face boards attached to channels; inside - rigid foam insulation between channels.

\*\*\*\*\*Use this Article Title if project contains fireproofing.\*\*\*\*\*

## **1.10 FIREPROOFING**

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Select one or more of the following System paragraphs. Delete those not selected.

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A. Column Fireproofing; System GA:

1. UL Design X518, steel columns W10x49 and larger, 2 hr. Double layer construction. Vertical gypsum baseboards positioned against steel column flange faces; vertical steel studs attached to baseboards at flange edges; vertical gypsum baseboards attached to stud webs. Vertical gypsum face boards attached to stud flanges and to stud webs through baseboards.

A. Column Fireproofing; System GB:

1. UL Design X521, steel columns W14x228 and larger, 2 hr. Single layer construction. Vertical steel studs positioned against steel column flange edges; vertical gypsum face boards attached to stud webs. Vertical gypsum face boards attached to stud flanges.

A. Column Fireproofing; System GF:

1. UL Design X515, steel columns W10x49 and larger, 3 hr. Three layer construction. Vertical gypsum baseboards positioned against steel column flange faces at flange edges; vertical steel studs attached to baseboards at flange edges; inner vertical gypsum baseboards attached to stud webs; outer vertical gypsum baseboards attached to stud webs through baseboards; outer gypsum baseboard attached to stud flanges. Vertical gypsum face boards attached to stud webs and to stud flanges through baseboards.

A. Column Fireproofing; System GG:

1. UL Design X514, steel columns W14x228 and larger, 3 hr. Double layer construction. Vertical steel studs positioned against steel column flange edges; vertical gypsum baseboards attached to stud webs. Vertical gypsum face boards attached to stud flanges;

vertical gypsum face boards attached to stud webs through baseboards.

A. Column Fireproofing; System GH:

1. UL Design X507, steel columns W14x228 and larger, 3 hr. Double layer construction. Vertical steel studs positioned against steel column flange edges; vertical gypsum baseboards attached to stud webs and to stud flanges. Vertical gypsum face boards attached to stud webs and stud flanges through baseboards.

A. Beam Fireproofing; System HA:

1. UL Design N502, steel beams W8x24 and larger, 2 hr. Double layer construction. Framing - steel runner channel attached to underside of steel floor deck parallel to beam upper flanges; steel U-shaped runner channel brackets attached to deck-attached runner channels @ 24 in. o.c.; runner channels parallel to beam lower flanges positioned in vertical-horizontal bracket juncture cut-outs. Horizontal gypsum baseboards attached to parallel runners and brackets, horizontal face boards attached to parallel runners and brackets through baseboards.

A. Beam Fireproofing; System HB:

1. UL Design N505, steel beams W8x24 and larger, 3 hr. Three layer construction. Framing - steel runner channel attached to underside of steel floor deck parallel to beam upper flanges; steel U-shaped runner channel brackets attached to deck-attached runner channels @ 24 in. o.c.; steel corner angles parallel to beam lower flanges attached to outside bracket corners. Horizontal gypsum inner baseboards attached to parallel runners and brackets, horizontal gypsum outer baseboards attached to parallel runners and brackets through inner baseboards, hexagonal wire mesh attached to underside of bottom outer baseboards, horizontal face boards attached to parallel runners and brackets through baseboards.