

**CITY OF NEW YORK
DEPARTMENT OF BUILDINGS**

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

**Satish K. Babbar, R.A., Acting Commissioner
MEA 123-00-M**

Report of Material and Equipment Acceptance Division

Manufacturer - USG Interiors/United States Gypsum, 125 South Franklin Street, Chicago, IL 60606.

Trade Name(s) - Firecode C Sheetrock.

Product - Suspended ceiling system for use as part of fire protection of floor/ceiling and roof/ceiling assemblies.

Pertinent Code Section(s) -27-323, 27-324.

Prescribed Test(s) - RS 5-2 (ASTM E119).

Laboratory - Underwriters Laboratories Inc.

Test Report(s) - UL Report R1319, Project No. 77NK6444, R1319-46,47,131 Project Nos. 62NK4310, 62NK4311, and 72NK4726; UL R4651-16 Project 74NK6743A; UL R4513-7,8 Project Nos. 75NK11306 and 76NK2431; UL 4651 Project Nos. 97NK34314, 98NK6229 and 99NK19765.

Description - Floor/ceiling and roof/ceiling assemblies, as per table below, utilizing the Fire code C Sheetrock for fire rated suspended ceiling system in achieving the fire resistance ratings listed below and in accordance with Underwriters Laboratories Inc. Design Numbers.

Floor/Ceiling Designs

	U.L. Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Constructions
Concrete/Steel Deck Floors Over Steel Beams	D501	2 HR-R 1 1/2 HR-U 2 HR-LBR	5/8"	SHEETROCK BRAND FIRECODE C	N/A	N/A	Min. 2" lwt. concrete on on Min. W8x17 beams
	D502	2 HR-R & UR 2 HR-LBR	5/8"	SHEETROCK BRAND FIRECODE C	2x4 (24%)	144 sq. in.	Min. 2-1/2" normal wt. concrete topping on Min. W8x29 beams
Concrete/Expanded Lath Floors Over Steel Joists and Beams	G523	2 HR-U 3 HR-LBR	5/8"	SHEETROCK BRAND FIRECODE C	2x4 (24%)	144 sq. in.	Min. 2-1/2" normal wt. concrete topping on Min. 3J2 joists and W10x21 beams
	G524	2 HR-U 2 HR-LBR	1/2"	SHEETROCK BRAND FIRECODE C	N/A	113 sq. in.	Min. 2-3/4" or 2-1/2" lwt. or normal wt. concrete topping on Min. 3" or 10" Hambro joists, respectively, and W8x24 beams
	G525	2 HR-U 2 HR-LBR	5/8"	QUILTRIX BRAND FIRECODE C	N/A	113 sq. in.	Min. 3-1/2" or 3-1/4" normal wt. concrete topping on Min. 3" or 10" Hambro joists, respectively, and W8x24 beams
	G526	2 HR-R & UR 2 HR-LBR	1/2"	SHEETROCK BRAND FIRECODE C	2x4 (25%)	57 sq. in.	Min. 2-1/2" normal wt. concrete topping on Min. 3J2 joists and W10x21 beams
	G527	2 HR-R & UR 3 HR-LBR	1/2"	SHEETROCK BRAND FIRECODE C	N/A	N/A	Min. 2-1/2" normal wt. concrete topping on Min. 3J2 joists and W10x21 beams
	G528	1-1/2 HR-R & UR 1-1/2 HR-LBR	1/2"	SHEETROCK BRAND FIRECODE C	N/A	N/A	Min. 2-1/2" normal wt. concrete topping on Min. 10J2 joists
	G529	2 HR & UR 2 or 3 HR-LBR	1/2"	SHEETROCK BRAND FIRECODE C	2x4 (24%)	57 sq. in.	Min. 2-1/2" normal wt. or lwt. concrete topping on Min. 10J2 joists and W8x24 beams
		3 HR & UR 3 HR-LBR	1/2"	SHEETROCK BRAND FIRECODE C	2x4 (24%)	57 sq. in.	Min. 3-1/4" normal wt. concrete topping on Min. 10J2 joists and W8x24 beams
3 HR-R & UR 3 HR-LBR		5/8"	SHEETROCK BRAND FIRECODE C	2x4 (24%)	57 sq. in.	Min. 2-3/4" normal wt. concrete topping on Min. 10J2 joists and W8x24 beams	
Precast Concrete Floors	F512	2 HR-U & UR 3 HR-R & UR	5/8"	SHEETROCK BRAND FIRECODE C	NA	NA	Min. 2" normal wt. concrete slab
			5/8"	SHEETROCK BRAND FIRECODE C	NA	NA	Min. 2-3/4" normal wt. concrete slab

Roof/Ceiling Designs

	U.L. Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Constructions
Double Ceiling Roof Assemblies	P217	2 HR-U	1/2"	SHEETROCK Brand FIRECODE C	1x4 or 2x4 (24%)	576 sq. ft.	Roof system on steel roof deck, min fiber 8H3 or 10J1 min @ 12" o.c. max.
	P220	1 1/2 HR-U	1/2"	SHEETROCK Brand FIRECODE C	1x4 or 2x4 (24%)	576 sq. ft.	Roof covering on gypsum concrete over USG form board, subpurlins and 10J3 joists w/ w6x16 beam
	P211	2 HR-U	1/2"	SHEETROCK Brand FIRECODE C	1x4 or 2x4 (24%)	576 sq. ft.	Roof covering over over insulating concrete on steel roof deck and 10J3 joists @ 48" o.c.
Mineral and Fiber Board on Building Units or Precast Concrete	P501	1 and 2 HR-U	5/8"	SHEETROCK Brand FIRECODE C	N/A	N/A	Roof covering over mineral and fiber board on building or precast concrete units, 1-4J5 joists @ 48" o.c. max.
Gypsum Plank, Insulation Board	P506	1-1/2 HR-U	5/8"	SHEETROCK Brand FIRECODE C	2x4 (24%)	57 sq. ft.	Roof covering over min 3 fiber bds. on gypsum planks, subpurlins and 12 H5 joists @ 48" o.c. max.
	P508	1 HR-U	5/8"	SHEETROCK Brand FIRECODE C	2x4 (24%)	144 sq. ft.	Roof covering over min 3 fiber bds (see alt) gyp wallbd, steel roof deck, 10J4 joists (min) @ 48" o.c.
Insulating Concrete	P507	1-1/2 HR-R 1 HR-U	5/8"	SHEETROCK Brand FIRECODE C	2x4 (24%)	57 sq. ft.	Roof covering on foamed plastic insulation, Gypsum conc. and form bds. on subpurlins and 10J4 Joists (min) @ 4' o.c.
	P509	1 HR-U	5/8"	SHEETROCK Brand FIRECODE C	2x4 (24%)	144 sq. ft.	Roof covering on foamed plastic insulation, Gypsum conc. and form bds. on subpurlins and 10J4 Joists (min) @ 4' o.c.
Corrugated Steel Deck w/Insulated Board or Foam Plastic Insulation	P510	1 & 1-1/2 HR-U	1/2" & 5/8"	SHEETROCK Brand FIRECODE C	2x4 (24%)	57 sq. ft.	Roof covering over insulation (see alt) on gypsum wallboard steel roof deck, 10J4 Joists (min) @ 72" o.c. max.
	P513	1-1/2 HR-U	5/8"	SHEETROCK Brand FIRECODE C	2x4 (24%)	144 sq. ft.	Roof covering on insulating concrete and foamed plastic over corrugated steel deck, 10J4 steel joists @ 48" o.c.
	P514	2 HR-U	5/8"	SHEETROCK Brand FIRECODE C	2x4 (24%)	255 sq. ft.	Roof covering over insulation (see ALT), gyp. wallboard and steel deck, 8H3 steel joists @ 48" o.c.
	P516	1 HR-R & U 1 HR-UB	5/8" (2 layers)	FIRECODE Core	NA	NA	Metal roof deck panels on Min. 8" deep C-or-Z-shaped purlins @ 60" max, glass fiber insulation between roof deck panels and steel roof purlins, W-shaped beam

HR = Hourly Rating, U = Unrestrained Rating, R = Retained rating and UB = Unrestrained beam rating.

Recommendation - That the above described floor/ceiling and roof/ceiling assemblies be accepted as having the fire resistance ratings indicated, provided the testing laboratory's requirements and manufacturer's instructions for installation are adhered to. Furthermore, the above described suspended ceiling system must comply with RS 5-16 of the Building Code. The system must not be used to support tiles or panels weighing more than four (4) pounds per square foot. Component materials, which oxidize or corrode when exposed to normal use environments shall be provided with protective coatings as specified by the Building Code. All shipments and deliveries of such materials shall be provided with a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance FEB/23/2001

Examined By S Derphedon