The UL assembilies listed below are Cretified for use in Canada by UL and comply with CAN/ULC S101 for fire resistence. The Standards Council of Canada recognizes UL as an accredited testing and cerification organization for certification of materials and systems to Canadian standards. The cUL Mark appears on all our Classified ceiling tile, panel and suspension system components. Tiles and panels are also certified by UL to CAN/ULC S102 for Surface Burning Characteristics.

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs— Concrete with Cellular Steel Floor Units and Beam Support Concealed Grid System and Tile	A003	3 hr. R; 3 hr. UR; 3 hr. URB	3/4 FR-83	12 x 12 12 x 24	Z-runners	Fluorescent type, 2 x 4—8%	None	2-1/2" concrete; Cellular deck; W10 x 25 beam
Floor/Ceiling Designs— Concrete with Steel Floor Units and Beam Support Exposed Grid System and Lay-in Panels	D209	2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. UR; 1-1/2 hr. URB	FR-83; FR-4; M; FR-X1; FC-CB	2 x 2; 2 x 4	DXL, DXLA	Fluorescent type, 2 x 4—8%	None	2-1/2" concrete; Cellular or fluted deck W10x 21 beam
	D215	4 hr. URB; 2 hr. R; 2 hr. UR; 2 hr. URB; 1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. UR;	3/4" FR-83	2 x 4;	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2" diam.	113 sq. in.	2-1/2" concrete; Cellular or fluted deck W8 x 15 beam
	D218	3 hr. R; 3 hr. UR; 3 hr. URB; 2 hr. R 2 hr. UR; 2 hr. URB	FR-83; Metal Pans; M	2x4	DXLP, DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—20% 5 x 48—10% 9 x 48—14%; Incandescent type, 6-1/2" diam.	1 air boot per 100 sq. ft.	3-1/4" concrete (3 hr.), 2-1/2" concrete (2 hr.); Cellular or fluted deck; W8 x 15 beam
	D219	3 hr. R; 3 hr. UR; 3 hr. URB; 2 hr. R; 2 hr. UR; 2 hr. URB; 1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB; 1 hr. R; 1 hr. UR; 1 hr. URB	FR-83; FR-4; FR-X1	2x2 2x4	DXL, DXLA, DXLT, DXLZ, DXLZA, SDXL, SDXLA, ZXLA	Fluorescent type, 12 x 48—16% 24 x 24—20% 20 x 48—20% 20 x 48—24%	144 sq. in.	3-1/2" concrete (3 hr.); 2-1/2" concrete (2 hr.); Cellular or fluted deck; W8 x 15 beam
Floor/Ceiling Designs— Concrete and Steel Joists Exposed Grid System and Lay-in Panels	G201	1 hr. R; 1 hr. UR	FR-X1; FR-83; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA, ZXLA	Fluorescent type, 2 x 4—8%; Incandescent type, 6-1/2" diam.	None	2" concrete; Metal lath or deck;10" bar joists 24 to 30" o.c. or Hambro System
	G202	2 hr. R; 2 hr. UR	FR-4; FR-83; FR-X1; Astro-FR; M	2 x 2; 2 x 4; 20 x 60; 24 x 60	DXL, DXLZ, SDXL	Fluorescent type, 20 x 48; 20 x 48/60—24%; 2 x 2 HID—12%; Incandescent type, 6-1/2" diam.	576 sq. in.	2-1/2" concrete; Metal lath 10" bar joists 24" or 30" o.c.
	G203	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83; Astro-FR; M	2 x 2; 2 x 4; 20 x 60	DXL, DXLT	Fluorescent type, 2 x 4 or 20 x 60—16% Incandescent type, 6-1/2" diam.—1.4%	254 sq. in. (576 sq. in.)	2-1/2" concrete; Metal lath or deck; 10" bar joists 24" o.c. or Hambro system, W6 x 12 or W8 x 10 beam
	G204	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83; FR-4; M; FR-X1; Astro-FR; [GR-1]	24 x 24 to 30 x 60	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 24 x 24; 24 x 48; 24 x 60; 24%; 2 x 2 HID; Incandescent type, 6-1/2" diam.	113 sq. in. (576 sq. in.)	2-1/2" concrete; Metal lath or deck; 10" bar joists 30" o.c.; W6 x 12 beam
	G205	3 hr. R, 3 hr. UR, 3 hr. URB	FR-83; FR-X1; FC-CB; FR-4 Astro-FR	2 x 2; 2 x 4	DXLT, DXL, DXLZ, SDXL, DXLA, SDXLA, DXLZA, DXLTZ, DXLTA, DXLTZA	Fluorescent type, 2 x 4—24% Incandescent type, 6-1/2" diam.	576 sq. in.	3-1/2" concrete (3 hr.) 2-1/2" concrete (2 hr) 8" bar joists, 72" o.c. (2 hr. rating) 10" bar joists 48" o.c. (3 hr. rating)

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs— Concrete and Steel Joists Exposed Grid System and Lay-in Panels	G211	3 hr. R; 3 hr. UR	FR-83; FR-4; FR-X1; FC-CB; Astro-FR; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, ZXLA, SDXL, SDXLA	Fluorescent type, 2 x 4—16%	113 sq. in.	3" concrete; Metal lath; 10" bar joists 24" o.c.
io Lay-in Patiets continued)	G213	3 hr. R; 3 hr. UR; 3 hr. URB; 2 hr. R; 2 hr. UR; 2 hr. URB 1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 URB; 1 hr. R; 1 hr. UR; 1 hr. URB	FR-4; FR-83; M FR-X1; FC-CB (1 or 1-1/2 hr.) Astro-FR	2 x 4; 2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2" diam.	154 sq. in.	3-1/2" concrete; metal lath or deck 10" bar joists 24" o.c. W6 x 12 beam
	G215	2 hr. R; 2 hr. UR; 2 hr. URB 2 hr. URB	FR-83; FR-4; FR-X1: Astro-FR; M	2 x 2; 2 x 4; 20 x 60	DXL, DXLZ, SDXL	Fluorescent type, 20 x 48/60—24%; 2 x 2 HID—2%; Incandescent type, 6-1/2" diam.	154 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c. or Hambro system; W10 x 21 beam
	G222	2 hr. R; 2 hr. UR; 2 hr. URB	FC-CB	2 x 2	DXL, DXLA, DXLH, DXLZ, SDLX, SDXLA	Fluorescent type, 2 x 4—12%; Incandescent type, 6-1/2" diam.	57 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c.; W8 x 24 beam 6-1/2" diam.
	G227	2 hr. R; 2 hr. UR; 3 hr. URB	FR-83; Astro-FR; M	2 x 2; 2 x 4	DXL, DXLZ , SDXL	Fluorescent type, 2 x 4—16%	57 sq. in.	2-1/2" concrete; Metal lath or deck; 10" bar joists 24" o.c. or Hambro System; W8 x 31 beam
	G228	2 hr. R; 2 hr. UR; 2 hr. URB	AP; AP-3	2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 2—12%; Incandescent type, 6-1/2" diam.	57 sq. in.	2-1/2" concrete; Metal lath or deck; 10" bar joists 24" o.c.; W8 x 31 beam
	G230	2 hr. R; 2 hr. UR 2 hr. URB	FR-83; FR-X1; Astro-FR; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, DXLZA, SDXL, SDXLA, ZXLA	Fluorescent type, 2 x 4—16%	113 sq. in.	2" building units; Floor topping mixture; 10" bar joists 48" o.c W8 x 31 beam
	G231	2 hr. R; 2 hr. UR; 3 hr. URB	3/4" FR-83	24 x 24 to 30 x 60	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA, ZXLA	Fluorescent type, 2 x 4—16%	57 sq. in.	2-1/2" concrete; Metal lath or deck; 8" bar joists 24" o.c.; W8 x 31 beam
	G259	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	FC-CB	2 x 4	DXL, DXLA, DXLH, DXLZ, SDLX, ZXLA	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2" diam.	57 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c.; W8 x 31 beam
	G262	1-1/2 hr. R; 1-1/2 hr. U	AP-1; FR-83 FR-X1; AP-2; [GR-1]	2 x 2 ILT edge	DXLT, DXLTZ, DXLTA, DXLTZA	Fluorescent type, 2 x 4—24%	113 sq. in.	2-1/2" concrete; Steel deck; 8" bar joists 24" o.c.
	G264	1-1/2 hr. R; 1-1/2 hr. U	AP-1; FR-83 FR-X1; AP-2; Astro-FR	2 x 2 FL edge	DXLF	Fluorescent type, 2 x 2—24%; Incandescent type, 6-1/2" diam.	113 sq. in.	2-1/2"concrete; Steel deck; 8" bar joists 24" o.c.
	G265	2 hr. R; 2 hr. U; 2 hr. URB	3/4" FR-83; FR-X1	2 x 2; SQ, ILT edge	DXLT, DXLTA, DXLTZ, DXLTZA	Fluorescent type, 2 x 2—24%; Incandescent type, 6-1/2" diam.	113 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c; W8 x 35 beam

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs— Concrete and Steel Joists Concealed Grid System and Tile	G002	2 hr. R; 2 hr. UR	FR-83	12 x 12; 12 x 24	Z-runners	Fluorescent type, 2 x 4—24%	576 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c.
concealed Grid System and The	G007	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83	12 x 12; 12 x 24; 24 x 24	Not a USG product	Fluorescent type, 1 x 4—16% or 2 x 4—24%	196 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c.; W10 x 21 beam
	G008	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83	12 x 12 to 24 x 24	DXL, DXLZ, SDXL (DE, DT, DEN, PAT, BPA/PAT, E, BPC)	Fluorescent type, 1 x 4—12% 2 x 4 —16%	288 sq. in.	2-1/2" concrete; Metal lath or deck; 10" bar joists 24" o.c.; W8 x 31 beam
	G040	2 hr. R; 2 hr. UR	FR-83	12 x 12; 12 x 24	DXL, DXLA, ZXLA, (DE, DT), DXLZ, SDXL	Fluorescent type, 2 x 4—16%	113 sq. in.	2-1/2" concrete; Metal lath; 10" bar joists 24" o.c.; W10 x 19 beam
	G267	1-1/2 hr. R; 1-1/2 hr. UR	FR-83; AP AP-3, FR-X1; M	2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24% Incandescent type, 6-1/2" diam.	113 sq. in.	2-1/2"concrete; Steel deck; 8" bar joists 24" o.c.;
	G268	3 hr. R; 3 hr. UR 3 hr. URB	3/4" AP-3	2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—12% Incandescent type, 6-1/2" diam.	57 sq. in.	2-5/8" concrete; Metal lath; 10" bar joists 28" o.c.; W8 x 31 beam
Floor/Ceiling Designs— Precast and Field-Poured Concrete Exposed Grid System and	J201	2 hr. R; 2 hr. UR	FR-83; FR-4; M; FR-X1; AP; AP-1; AP-3	2 x 2; 2 x 4; 20 x 60	DXL, DXLT, DXLZ, SDXL, DXLA, SDXLA, ZXLA, DXLTA, DXLTZA	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2" diam.	576 sq. in.	2-1/2" concrete floor with 6" concrete stems
Lay-In Panels	J202	2 hr. R; 2 hr. UR	FR-83; FR-X1; AP; AP-1; AP-2; AP-3	2 x 2; 2 x 4	DXL, DXLT, DXLZ, SDXL, DXLTZ, DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—14%; Incandescent type, 6-1/2" diam.	57 sq. in.	Precast concrete; 2" deck; Stems 4' o.c.
Floor/Ceiling Designs— Wood or Combination Wood and Steel Joists Assemblies Exposed Grid System and Lay-In Panels	L202	1 hr. UR; Finish Rating: 15 min.	FR-83; FR-4; M; FR-X1; Astro-FR	2 x 2; 2 x 4; 20 x 60; 24 x 60	DXL, DXLZ, SDXL Acoustical tent DXLT, DXLTA, DXLTZ	Fluorescent type, 20 x 48/60 or 2 x 4—16%; Incandescent type, 6-1/2" diam.—1%	110 sq. in.	Wood floor; 2 x 10 wood joists 16" o.c.
	L206	1 hr. UR; Finish Rating: 17 min.	FR-83; FR-X1; M; FC-CB	2 x 2 x 3/4 2 x 4	DXL, DXLA, DXLT, DXLTA, DXLTZ, DXLZ, DXLZA, SDXL, SDXLA	Fluorescent type, 2 x 4—8%; Incandescent type, 6-1/2" diam.—0.5%	110 sq. in.	Wood floor; 2 x 10 wood joists 16" o.c.
	L211 (P237)	2 hr. UR; Finish Rating: 75 min.	FR-4; FR-83; FR-X1; M	2x4	DW (for drywall), DXL, DXLA, SDXL, DXLZ, SDXLA, ZXLA (for panels)	Fluorescent type, 1 x 4—16%; 2 x 2—20%; 2 x 4—24%; Incandescent type, 6-1/2" diam.	576 sq. in.	Wood floor; 2 x 10 wood joists 16" o.c.; 1/2" Firecode C Gypsum Panel Ceiling w/6" fiberglass insulation
	L212 (P238)	1 hr. UR; Finish Rating: 17 min.	FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 1 x 4—12%; 2 x 2—16%; 2 x 4—24%; Incandescent type, 6-1/2" diam.	576 sq. in., Linear air returns	Wood floor; 2 x 10 wood joists 16" o.c; Panels back Panels backloaded w/6" fiberglass

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs— Wood or Combination Wood and Steel Joists Assemblies Concealed Grid System and Tile	L006	1 hr. UR; Finish Rating: 12 min.	FR-83	12 x 12; 12 x 24	Not a USG product	Fluorescent type, 12 x 48; 20 x 48; 20 x 60—14%	81 sq. in., Linear air returns	Wood floor; 2 x 10 wood joists 16" o.c
Roof/Ceiling Designs Exposed Grid System and Lay-in Panels	P201	1 hr. R; 1 hr. UR; 1 hr. URB	FR-83; FR-X1; M	2 x 4	DXL, DXLA, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	None	None	Steel deck; 3/4" insulation; 10" bar joists 84" o.c.; W8 x 17 beam
	P202	1 hr. R; 3/4 hr. UR; 1 hr. URB	FR-83; FR-X1; M	2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%	57 sq. in.	Steel deck; 1" insulation; 8" bar joists 48" o.c.
	P203	3/4 hr. R; 3/4 hr. UR; 3/4 hr. URB	FR-83; M; FR-X1	2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24%	113 sq. in.	Steel deck 1" to 2" insulation 8" bar joists 60" o.c.
	P213	2 hr. R; 2 hr. U	3/4" FR-83; FR-X1	2x4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2" diam.—1.0%	110 sq. in.,	2" planks; Insulation; 14" bar joists 84" o.c.
	P214	1 hr. R; 1 hr. UR; 1 hr. URB	3/4" FR-83	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2" diam.—1%	57 sq. in.	Steel deck 3/4" to15/16" insulation; 10" bar joists 72" o.c.
	P230	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	FR-4; FR-83; FR-X1; M; AP (1 hr. only); AP-3; Astro-FR; Metal Pans	2 x 2; 2 x 4; 20 x 60	DXL, DXLA, DXLP, DXLT, DXLTA, DXLTZ, DXLZ, DXLZA, SDXL, SDXLA, ZXLA	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2" diam.; 2 X 2 HID	255 sq. in. (576 sq. in. for 1 hr.)	Unlimited insulation; Gypsum panels or Dunock® on steel deck; 10" bar joists 72" o.c.; 6 x 12 beam
	P235	1 hr. R; 1 hr. UR 1 hr. URB	FR-83; FR-X1; M	2 x 4; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%	144 sq. in.	Foamed plastic insulation; Gypsum panels; Steel deck, 10" bar joists 72" o.c.; W8 x 15 beam
	P237	2 hr. R; 2 hr. UR; 2 hr. URB	FR-4; FR-83; FR-X1; M	2x4	DGL (for drywall) DXL, DXLA, DXLZ, DXLZA, SDXL, SDXLA (for panels), ZXLA,	Fluorescent type, 1 x 4—16%; 2 x 2—20%; 2 x 4—24%; Incandescent type, 6-1/2" diam.	144 sq. in. Linear air returns	Unlimited insulation; Steel deck; 8" bar joists 72" o.c.; 1/2" FIRECODE C Gypsum Panel Ceiling w/6" fiberglass insulation
	P238	1 hr. R; 1 hr. UR; 1 hr. URB	FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 1 x 4—12%; 2 x 2—16%; 2 x 4—24%; Incandescent type, 6-1/2" diam.	576 sq. in.	1" to 2" insulation; Steel deck; 8" bar joists 48" o.c.;
	P241	2 hr. R; 2 hr. UR	FR-4; FR-83; FR-X1; M	2x4	DW (for drywall), ZXLA, DXL, DXLZ, SDXL, DXLZA, SDXL (for panels)	Fluorescent type, 1 x 4—16%; 2 x 2—20%; 2 x 4—24%; Incandescent type, 6-1/2" diam.	576 sq. in.	Insulating concrete; Steel deck; 10" bar joists 72" o.c.; 1/2" FIRECODE C Gypsum Panel Ceiling w/6" fiberglass insulation

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Roof/Ceiling Designs Exposed Grid System and Lay-in Panels (continued)	P245 (P238)	1 hr. R; 1 hr. UR	FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 1 x 4—12%; 2 x 2—16%; 2 x 4—24%; Incandescent type, 6-1/2" diam.	576 sq. in.	3/4" insulation over 2" Bldg. Units; 14" bar joists 84" o.c.; Ceiling panels back-loaded w/ 6" fiberglass
	P246	1 hr. R; 1 hr. UR; 1 hr. URB	FR-83; FR-X1; M	2 x 2; 2 x 4; 20 x 60	DXL, DXLZ, SDXL	Fluorescent type, 2 x 2—20%; 2 x 4—24%; 2 x 4 HID; Incandescent type, 6-1/2" diam.	576 sq. in.	Insulating concrete over foamed plastic; Steel deck; 8" bar joists 72" o.c.; W8 x 15 beam
	P254	1 hr. R; 3/4 hr. UR; 3/4 hr. URB	3/4" FR-83	2 x 2 FL edge	DXLF	Fluorescent type, 2 x 2 or 2 x 4—24%; Incandescent type, 6-1/2" diam.	113 sq. in.	Unlimited insulation; Gypsum wallboard; Steel roof deck, 10" bar joists 48" to 72" o.c.
	P255	1 hr. R; 1 hr. UR; 1 hr. URB	FR-83 FR-X1; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2" diam.	57 sq. in.	Insulating concrete over foamed plastic; Steel deck; 8" bar joists 72" o.c.; W8 x 15 beam
	P257	1hr. UR	FR-83 FR-X1; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXZA, SDXLA	Fluorescent type, 2 x 4—25%	255 sq. in.	4-7/8" insulation; Gypsum wallboard over steel deck; 7-1/4" steel "C" joists 24" o.c.
	P267	1 hr. R; 1 hr. UR 1 hr. URB	FR-83; FR-X1; M; Metal pans	2 x 2; 2 x 4	DXL, DXLA, DXLP, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—16%	576 sq. in.	1" to 2" insulation; Steel deck; 8" bar joists 48" o.c.
	P268	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	3/4" FR-83; 5/8" FR-4	2x2	DXL, DXLA, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—24%	576 sq. in.	Metal roof deck panels; glass fiber insulation; steel roof purlins 60" o.c.; ceiling panels backloaded w/6" fiberglass
	P269	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	FR-83; FR-X1; FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2" diam.—1.4%	255 sq. in.	Insulating concrete; Steel deck; 10" bar joists 48" o.c.; W8 x 15 beam

Flat Drywall Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Concrete/Steel Deck Floors Over Steel Beams	D501	2 hr-R 1-1/2 hr-UR 2 hr-UBR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Min. 2" ltwt. concrete on Min. W8x17 beams
	D502	2 hr-R & UR 2 hr-UBR	5/8"	SHEETROCK FIRECODE C 1P-X2, 1PC-AR, & WRC	2x4 (24%)	144 sq. in.	Min. 2-1/2" normal wt. concrete topping on Min. W8x28 beams
	D503	2 hr-R & UR 2 hr-UBR	5/8"	SHEETROCK FIRECODE C	6" dia. incandescent 4 per 100 sq. ft	N/A	Min. 2-1/2" normal wt. concrete on 2" steel deck on min. W12x19 beams .
Concrete/Expanded Lath Floors Over Steel Joists and Beams	G523	2 hr-R & UR 3 hr-UBR	5/8"	SHEETROCK FIRECODE C 1P-X2	2x4 (24%)	144 sq. in.	Min. 2-1/2" normal wt. concrete topping on Min. 8J2 joists and W10x21 beams
oteor colots and beams	G524	2 hr-R & UR 2 hr-UBR	1/2"	SHEETROCK FIRECODE C 1P-X2, 1PC-AR, & WRC	N/A	113 sq. in.	Min. 2-3/4" or 2-1/2" It wt. or normal wt. concrete topping on min. 8" or 10" Hambro joists, respectively, and min. W8x24 beams
	G525	2 hr-R & UR 2 hr-UBR	5/8"	SHEETROCK FIRECODE C	N/A	113 sq. in.	Min. 3-1/2" or 3-1/4" normal wt. concrete topping on Min. 8" or 10" Hambro joists, respectively, and W8x24 beams
	G526	2 hr-R & UR 2 hr-UBR	1/2"	SHEETROCK FIRECODE C	2x4 (25%)	57 sq.in	Min. 2-1/2" normal wt. concrete topping on Min. 8J2 joists and W10x21 beams
	G527	2 hr-R & UR 3 hr-UBR	1/2"	SHEETROCK FIRECODE C 1P-X2 & 1PC-AR	N/A	N/A	Min. 2-1/2" normal wt. concrete topping on Min. 8J2 joists and W10x21 beams
	G528	1-1/2 hr-R & UR	1/2"	SHEETROCK FIRECODE C	N/A	N/A	Min. 2-1/2" normal wt. concrete topping on Min. 10J2 joists
	G529	2 hr-R & UR 2 or 3 hr-UBR	1/2"	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Min. 2-1/2" normal wt. or Itwt. concrete topping on Min. 10J2 joists and W8x24 beam:
		3 hr & UR 3 hr-UBR	1/2"	SHEETROCK 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-UBR	5/8"	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Min. 2-3/4" normal wt. concrete topping on Min. 10J2 joists and W8x24 beams
	G531	2 hr-R&UR 2 hr-UBR	1/2"	SHEETROCK FIRECODE C	1x1 (1%)	144 sq. in.	Min. 3-1/4" normal wt. concrete Min. 6" D500 steel joist
		1 hr-R&UR	5/8"	SHEETROCK FIRECODE	1x1	144 sq. in. (1%)	Min. 2-1/2" normal wt. concrete Min. 6" D500 or D510 steel joist
	G541	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	2x4	113 sq. in. (24%)	Min. 3-1/2" normal wt. concrete Min. 7-3/16"-deep, 18-ga. steel C-joists
	G546	1 hr-R&UR 1 hr-UBR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Min. 2" normal Itwt. concrete light-gauge steel truss
	G547	2 hr-R&UR	1/2"	SHEETROCK FIRECODE C	2x4 (24%)	114 sq. in.	Min. 2-1/2" normal wt. concrete Min. 8J2 or 10K1 steel joists
		3 hr-R&UR 3 hr-UBR	5/8"	SHEETROCK FIRECODE C	2x4 (24%)	114 sq. in.	Min. 3" normal wt. concrete Min. 8J2 or 10K1 steel joists
	G551	1 hr-UR	5/8" one or two layers	SHEETROCK FIRECODE C	N/A	N/A	1" Levelrock, steel deck, 9-1/4"-deep steel C-joists @ 24" o.c., 3-1/2" insulation, RC-ls @ 24" o.c.

Flat Drywall Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Precast Concrete Floors	J502	2 hr-U & UR 3 hr-R & UR	5/8" 5/8"	SHEETROCK FIRECODE C SHEETROCK FIRECODE C	NA NA	NA NA	Min. 2" normal wt. concrete slab Min. 2-3/4" normal wt. concrete slab
Wood Joists	L211	2 hr-UR 75 min finish rating	1/2"	SHEETROCK FIRECODE C	1x4 (12%) 2x2 (16%) 2x4 (24%) 20"x48" (20%)	576 sq. in	T & G or plywood (see 6 alternatives) over subfloor on 2x10 joists @16" oc, plus P237- ceiling const.
	L502	1 hr-UR 22 min finish rating	1/2"	SHEETROCK FIRECODE C 2P-X2, 1PC-AR, & WRC	N/A	N/A	T & G or plywood (see 14 alternatives) over subfloor on 2x10 joists @ 16" o.c.
	L508	1 hr-UR 29 min finish rating	5/8"	SHEETROCK FIRECODE C 1P-X1, 2P-X2, 2PC-AR, SCX, SYX, & WRX	N/A	N/A	T & G or plywood on 4x10 or DBL 2x10 joists
Wood Joists	L513	1 hr-UR 28 min finish rating	5/8"	SHEETROCK FIRECODE C	N/A	N/A	3/4" T & G w/ adhesive on 2x10" joists @ 24" o.c., drywall battens at joints (see 15 alternatives)
	L515	1 hr-UR 21 min finish rating	1/2"	SHEETROCK FIRECODE C 2P-X2, 1PC-AR, & WRC	N/A	N/A	T & G over subflooring on 2x10 joists @ 16" o.c. (see 9 alternatives)
	L523	1 hr-U 21-min. finish rating	5/8"	SHEETROCK FIRECODE C	N/A	198 sq. in.	Finish floor over 5/8" plywood on 2x10 joists @ 16" o.c. max.
	L525	1 hr-UR 21 min finish rating	1/2" or 5/8"	SHEETROCK FIRECODE C	2x4 (24%)	57 sq. in.	T & G or plywood over subflooring on 2x10 joists @ 16" o.c.(see 12 alternatives)
	L526	1 hr-UR 22 min finish rating	5/8"	SHEETROCK FIRECODE C 1P-X2, 1PC-AR, & WRC	2x4 (24%)	114 sq. in.	T & G or plywood over on 2x10 joists (see 10 alternatives)
Plywood with Wood Truss	L521	1 hr-U 25-min. finish rating	5/8"	SHEETROCK FIRECODE C	N/A	324 sq. in.	Finish floor over plywood subfloor on min. 18"-deep wood truss @ 24" o.c. max.
	L529	1 hr-UR 22 min finish rating	5/8"	SHEETROCK FIRECODE C 1P-X2, 2PC-AR	2x4 (24%)	57 sq. in.	T & G wood floor or Itwt insulating concrete over subflooring (see 16 alternatives) on trusses @ 24" o.c. max
	L550	1 hr-U 23-min. finish rating	5/8"	SHEETROCK FIRECODE C	N/A	360 sq. in.	Finish floor over T&G plywood subfloor on min18" deep wood truss @ 24" o.c. max.
Plywood with Steel C-Joists or Light-Gauge	L524	1 hr-R&UR	1/2" two layers	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over plywood subfloor on min. 7"-deep steel C-joist
Steel Truss	L548	1 hr-R&UR	5/8" two layers	SHEETROCK FIRECODE C	N/A	N/A	7/8" T&G plywood on min. 11-3/8"-deep, 16-ga. steel truss @ 24" o.c. max.
	L549	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L551	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.

Flat Drywall Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Plywood with Steel C-Joists or Light-Gauge Steel Truss	L552	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
(continued)	L553	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L559	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L560	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	L563	1 hr-UR	5/8"	SHEETROCK FIRECODE C	N/A	256 sq. in.	Wood floor; 2x4 open-web wood truss @ 24" o.c.
	L569	1 hr-UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Wood floor; 2x10 wood joists @ 16" or 24" o.c. when battens (item7) are used.
	L570	1 hr-UR	1/2"	SHEETROCK FIRECODE C	N/A	N/A	Wood floor, 9-1/2"-deep wood I-joists @ 19.2" o.c.
FORTACRETE Panels with	G535	1-1/2 & 2 hr UR	5/8"	SHEETROCK FIRECODE C			
Steel C-Joists	G536	2 hr UR	5/8" two layers	SHEETROCK FIRECODE C			
	G556	1-1/2 & 2 hr UR	5/8"	SHEETROCK FIRECODE C			
	G557	2 hr UR	5/8" two layers	SHEETROCK FIRECODE C			
	G558	1 hr R & UR	5/8"	SHEETROCK FIRECODE C			
	G562	2 hr R & UR	5/8" two layers	SHEETROCK FIRECODE C			

^{*} R = restrained rating
UR = unrestrained rating
UBR = unrestrained beam rating

Flat Drywall Suspesion Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Double Ceiling Roof Assemblies	P237	2-hr-R & UR 2-hr-UBR	1/2"	SHEETROCK FIRECODE C	1x4 (12%), 2x2 (16%), 2x4 (24%), 20"x48" (20%)	576 sq. in.	Roof system on steel roof deck, min. fiber 8H3 or 10k1 min @ 72" o.c. max
	P239	1-1/2 hr-R & UR 1-1/2 hr-UBR	1/2"	SHEETROCK FIRECODE C	1x4 (12%), 2x2 (16%), 2x4 (24%), 20"x48" (20%)	576 sq. in.	Roof covering of gypsum concrete over USG form board, subpurlins and 12J3 joists w/ w6x16 beam.
	P241	2 hr-R & UR	1/2"	SHEETROCK FIRECODE C	1x4 (12%), 2x2 (16%), 2x4 (24%), 209x489 (20%)	576 sq. in.	Roof covering over over insulating concrete on steel roof deck and 10J3 min joists @ 48" o.c.
Mineral and Fiber Board on Building Units or Precast Concrete	P501	1 and 2 hr-R & UR	5/8"	SHEETROCK FIRECODE C 2P-X2 & 2PC-AR	N/A	N/A	Roof covering over mineral and fiber board on building or precast concrete units, 14J5 joists @ 48" o.c. max.
Gypsum Plank, Insulation Board	P506	1-1/2 hr-R & UR	5/8"	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Roof covering over min & fiber boards. on gypsum planks, subpurlins and 12 H5 joists @48" o.c. max.
	P508	1 hr-R & UR	5/8"	SHEETROCK FIRECODE C 2P-X2, 1PC-AR, & WRC	2x4 (24%)	144 sq in	Roof covering over min & fiber boards (see alt) gyp wallboard., steel roof deck, 10J4 joists (min) @48" o.c.
Insulating Concrete	P507	1-1/2 hr-R 1 hr-UR	5/8"	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Roof covering on foamed plastic insulation, Gypsum conc and form boards. on subpurlins and 10J4 joists (min) @ 4'o.c.
	P509	1 hr-R & UR 1 hr-R	5/8"	SHEETROCK FIRECODE C'	2x4 (24%)	144 sq in	Roof covering on foamed plastic insulation, Gypsum conc. and form boards. 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-R & UR	1/2" & 5/8"	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Roof covering over insulation (see alt) on gypsum wallboard steel roof deck, 10J4 joists (min) @ 72" o.c. max.
	P513	1-1/2 hr-R & UR	5/8"	SHEETROCK FIRECODE C	2x4 (24%)	144 sq in	Roof covering on insulating concrete and foamed plastic over corrugated steel deck, 10J4 steel joists @ 48" o.c.
	P514	2 hr-R & UR	5/8"	SHEETROCK FIRECODE C	2x4 (24%)	255 sq in	Roof covering over insulation (see 9 alternatives), gyp. wallboard and steel deck, 8H3 steel joists @ 48" o.c.
	P516	1 hr-UR	5/8" (2 layers)	SHEETROCK FIRECODE C	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
	P518	1 hr-R&UR 1 hr-UB	1/2" two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering over steel deck on min. min. 8"-deep, 18-ga. steel C-joists @ 24" o.c. max.

Flat Drywall Suspesion Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Engineered Steel or Wood or Roof Truss	P515	1 hr-R&UR	5/8" two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering over mineral and fiber board on steel roof deck over steel roof trusses @ 48" o.c. max.
	P521	2 hr-R&UR	5/8" two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering over foamed plastic insulation, gypsum wallboard, steel deck on light-gauge steel trusses @ 48" o.c. max.
	P522	1 hr-UR	5/8"	SHEETROCK FIRECODE C	N/A	196 sq. in.	Roof system over 15/32" plywood on wood trusses @ 24" o.c. max.@ 24" o.c. max.
	P523	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32" plywood on light-gauge steel trusses @ 48" o.c. max.
	P525	2 hr-R&UR	5/8" two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof membrane or metal roof deck on foamed plastic insulation, Durock® Brand Cement Board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48" o.c. max.
	P526	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32" plywood or steel roof deck on light-gauge steel trusses @ 48" o.c. max.
	P527	1-1/2 hr- R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck on foamed plastic insulation, Durock® Brand Cement Board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48" o.c. max.
	P528	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32" plywood or steel roof deck on light-gauge steel trusses @ 48" o.c. max.
	P529	1-1/2 hr- R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck on foamed plastic insulation, Durock® Brand Cement Board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48" o.c. max.
	P530	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32" plywood or steel roof deck on light-gauge steel trusses @ 48" o.c. max.
	P531	1 hr-UR	5/8"	SHEETROCK FIRECODE C	N/A	360 sq. in.	Roof system over 15/32" plywood on wood trusses @ 24" o.c. max.
	P534	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32" plywood or steel roof deck on light-gauge steel trusses @ 48" o.c. max.

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Engineered Steel or Wood Roof Truss (continued)	P535	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck over mineral and fiber board or foamed plastic insulation, Durock® cement board or gypsum wallboard over light-gauge steel trusses @ 48" o.c. max.
	P536	2 hr-R&UR	5/8" two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck on foamed plastic insulation, Durock® cement board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48" o.c. max.
	P537	1 hr-R&UR	5/8"	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32" plywwod or steel roof deck on light-gauge steel trusses @ 48" o.c. max.

Notes

General Notes

- 1. Hanger wire should be located between the main tee splice and the expansion relief notch and a maximum 48" o.c., or per the requirements of the specific UL design.
- 2. All 60" cross tees are to have hanger wires at their midpoint.
- 3. Assemblies are tested with the method and criteria established in Standard UL 263, also known as A2.1, ASTM E119 and NFPA 251.
- 4. Hold-down clips are required when fire-rated board weighs less than 1.0 lb./sq. ft.
- 5. % Fixtures column indicates 24" x 48" fixture only, unless noted. Check for suspension requirements.
- 6. Some designs pertain to DXL only. Contact UL Fire Resistance Directory and revisions to confirm all information listed in these tables.
- 7. DXLR and ZXLA are also listed by UL.

8. DXL has been used in many other industry fire tests and listed in reports such as the National Evaluation Reports, for example, NER-148 and NER-399 (wood truss constructions).

** Check UL Designs for deck options.

UL Abbrevations

(See UL Directory for details)

R = Restrained assembly UR = Unrestrained assembly URB = Unrestrained beam

FIRECODE Cast Panels

AP or AP-3 = Frost, Glacier, Sandrift AP-1 or AP-2 = Frost, Glacier, Sandrift

FIRECODE Panel

FC-CB = Sheetrock Brand Lay-In Ceiling Panel CLIMAPLUS

FIRECODE Water-Felted Panels

M = CLEAN ROOM CLIMAPLUS

AStro-FR = ASTRO CLIMAPLUS
FR-X1 = ECLIPSE CLIMAPLUS, MILLENNIA CLIMAPLUS
FR-83 = ASPEN, FISSURED, PEBBLED CLIMAPLUS, RADAR,
RADAR CLIMAPLUS, RADAR CLIMAPLUS High NRC/CAC,
ROCK FACE CLIMAPLUS, TOUCHSTONE
FR-4 = RADAR CERAMIC CLIMAPLUS

Report Compliance

L.A. Research Report Compliance

DONN brand suspension systems manufactured by CGC Interiors, Inc. comply with one or more of the following L.A. Research Report numbers: 22179, 23541, 24095.

ICBO 2244 and 1939 Research Reports