FIRE RESISTANCE TIME-RATED DESIGNS

UL FIRE RESISTIVE ASSEMBLIES

Fire Ratings specified in this section pertain to UL Classifications which are based on standard test method ANSI/UL263, ASTM E119, UBC 7-1, NFPA 251, CAN/ULC - S101M

FLOOR/CEILING ACOUSTICAL ASSEMBLIES¹

Type of construction	Maximum time rating (hrs)	UL design number	Concrete thickness (in.)	Panel or tile size (in.)	Panel type ²	Edge detail allowed³	Panel or tile thickness (in.)	Minimum fixture area (ft²/100 ft²)	Maximum duct area (in²/100 ft²)	Grid system
Concrete on metal lath or corrugated steel deck, steel joists	2	G208	2-1/2	24 x 24 24 x 36 24 x 48 24 x 60 20 x 60	Wet-Felted/G2	T, R, G	5/8 3/4	25	576	15/16″ FireSecure Stab
Concrete on metal lath, steel joists	2	G218	2-1/2	24 x 24 24 x 36 24 x 48	Wet-Felted/G2	T, R, G	5/8 3/4	25	576	15/16" FireSecure Stab
Concrete on metal lath, steel joists	2	G248	2-1/2	24 x 24 24 x 36 24 x 48	Wet-Felted/G2	T, R, G	5/8 3/4	_	-	15/16″ FireSecure Stab
Concrete on metal lath or corrugated steel deck, steel joists	2	G255	2-1/2	24 x 48 20 x 60	Wet-Felted/G2	T, R, G	5/8 3/4	24	576	15/16″ FireSecure Stab
Wood deck	1	L201	_	24 x 24 24 x 36 24 x 48	Wet-Felted/G2	T, R	5/8 3/4	8	25	15/16" FireSecure Stab

ROOF/CEILING ACOUSTICAL ASSEMBLIES¹

Type of construction	Maximum time rating (hrs)	UL design number	Concrete thickness (in.)	Panel or tile size (in.)	Panel type ²	Edge detail allowed³	Panel or tile thickness (in.)	Minimum fixture area (ft²/100 ft²)	Maximum duct area (in²/100 ft²)	Grid system
BUR, modified or single-ply over steel deck, steel joists	1	P204	-	24 x 24 24 x 36 24 x 48	Wet-Felted/G2	T, R	5/8 3/4	16	57	15/16″ FireSecure Stab
BUR, modified, single-ply or metal over steel deck, steel joists	1.5	P259	-	24 x 24 24 x 36 24 x 48 20 x 60	Wet-Felted/G2	T, R	5/8 3/4	24	576	15/16″ FireSecure Stab
BUR, modified or single-ply over gypsum concrete, steel joists	1	P260	-	24 x 48	Wet-Felted/G2	T	5/8 3/4	16	288	15/16″ FireSecure Stab
BUR, modified or single-ply over cellular, vermiculite or perlite concrete, steel joists	1	P261	-	24 x 24 24 x 36 24 x 48 20 x 60	Wet-Felted/G2	Т	5/8 3/4	24	113	15/16″ FireSecure Stab
BUR, modified or single-ply over insulating concrete, steel deck, steel joists	1	P264	2-1/4	24 x 48	Wet-Felted/G2	T	5/8 3/4	24	255	15/16″ FireSecure Stab
BUR, modified, single-ply or metal over mineral fiber or gypsum boards, steel deck, steel joists	2	P266	-	24 x 48	Wet-Felted/G2	Т	5/8 3/4	24	576	15/16" FireSecure Stab

PANEL AND TILE TYPES:

- 1. Class A, B or C roof coverings may be applied directly to the concrete or wood surface of floor/ceiling designs being used as roof/ceiling designs without a reduction of the fire resistance rating.
- 2. Wet-Felted/G2: Wet-Felted Protectone® Baroque™, Baroque Customline®, Cashmere®, Directional Fissured, Fine Fissured Customline, School Board®.
- 3. Edge Detail Types: T = Trim (Square) Edge; R = Reveal Edge; G = Reveal Edge, Grooved Face (Customline).

The information contained in this table is intended only to be used as a guide. For detailed time-rated assembly information, refer to the latest Underwriters Laboratories Inc. Fire Resistance Directory (ul.com).



ULC FIRE RESISTIVE ASSEMBLIES

Fire ratings specified in this section pertain to ULC Classifications which are based on standard test method ANSI/UL 263, ASTM E 119, UBC 7-1, NFPA 251, CAN/ULC - S101M

FLOOR/CEILING ACOUSTICAL ASSEMBLIES¹

Type of construction	Maximum time rating (hrs)	ULC design number	Concrete thickness (mm)	Panel or tile size (mm)	Panel or tile type ²	Edge detail allowed³	Panel or tile thickness (mm)	Minimum fixture area (m²/10 m²)	Maximum duct area (m²/10 m²)	Grid system
Concrete on corrugated steel deck	2	D203	-	600 x 600 600 x 1200 500 x 1500	Wet-Felted/G2	Т	16	2.5	0.035	15/16″ FireSecure Stab
Concrete on corrugated steel deck	2	D205	-	600 x 1200 500 x 1500	Wet-Felted/G2	T	16	2.5	-	15/16″ FireSecure Stab
Concrete on metal lath, steel joists	2	G208	-	600 x 600 600 x 1200 600 x 1500 500 x 1500	Wet-Felted/G2	Т	16	2.5	0.4	15/16″ FireSecure Stab
Concrete on metal lath, steel joists	2	G218	-	600 x 600 600 x 1200 500 x 1500	Wet-Felted/G2	Т	16	2.5	0.4	15/16″ FireSecure Stab
Concrete on metal lath, steel joists	2	1210	-	600 x 600 600 x 1200 500 x 1500	Wet-Felted/G2	T	16	-	_	15/16″ FireSecure Stab
Concrete on metal lath, steel joists	1	1211	-	600 x 600 600 x 1200 500 x 1500	Wet-Felted/G2	T	16	0.8	0.017	15/16″ FireSecure Stab
Wood deck	1	L201	-	600 x 600 600 x 1200 500 x 1500	Wet-Felted/G2	Т	16	0.8	0.02	15/16″ FireSecure Stab

ROOF/CEILING ACOUSTICAL ASSEMBLIES¹

Type of construction	Maximum time rating (hrs)	ULC design number	Concrete thickness (mm)	Panel or tile size (mm)	Panel or tile type ²	Edge detail allowed³	Panel or tile thickness (mm)	Minimum fixture area (m²/10 m²)	Maximum duct area (m²/10 m²)	Grid system
BUR, modified or single-ply over steel deck, steel joists	1	R224	-	600 x 600 600 x 1200	Wet-Felted/G2	Т	16	1.6	0.21	15/16″ FireSecure Stab

PANEL AND TILE TYPES:

- 1. Class A, B or C roof coverings may be applied directly to the concrete or wood surface of floor/ceiling designs being used as roof/ceiling designs without a reduction of the fire resistance rating.
- 2. Wet-Felted/G2: Wet-Felted Protectone® Baroque™, Baroque Customline®, Cashmere®, Directional Fissured, Fine Fissured Customline, School Board®.
- 3. Edge Detail Types: T = Trim (Square) Edge; R = Reveal Edge; G = Reveal Edge, Grooved Face (Customline).

The information contained in this table is intended only to be used as a guide. For detailed time-rated assembly information, refer to the latest Underwriters Laboratories Inc. Fire Resistance Directory (ul.com).

