

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 DRYWALL ASSEMBLIES

Type of construction	Maximum time rating (hrs)	UL design number	Concrete thickness (in.)	Number of drywall layers	Minimum drywall thickness (in.)	Maximum fixture penetration (ft ² /100 ft ²)	Maximum duct penetration (ft ² /100 ft ²)	Drywall grid system
Concrete on metal lath or corrugated steel deck, steel joists	2	D501	2-1/2"	1	1/2	N/A	N/A	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	2	D502	2-1/2"	1	1/2	24	144	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	2	D503	2-1/2"	1	1/2	One 6" diameter fixture per 25 ft ²	N/A	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	2	G041	2-1/2"	1	1/2	15.3	54	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	1	G041	2-1/2"	1	1/2	15.3	54	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	2	G523	2-1/2"	1	1/2	24	144	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	2	G524	2-1/2"	1	1/2	One fixture per 100 ft ²	144	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	2	G526	2-1/2"	1	1/2	24	56.5	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	2	G527	2-1/2"	1	1/2	N/A	N/A	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	1-1/2	G528	2-1/2"	1	1/2	N/A	N/A	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	2	G529	2-1/2"	1	1/2	24	57	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	2	G553	2-1/2"	1	1/2	N/A	N/A	CertainTeed DWS ¹
Wood Deck	1	L502	—	1	1/2	N/A	99	CertainTeed DWS ¹
Wood Deck	1	L508	—	1	1/2	N/A	99	CertainTeed DWS ¹
Wood Deck	1	L513	—	1	1/2	N/A	99	CertainTeed DWS ¹
Wood Deck	1	L515	—	1	1/2	N/A	99	CertainTeed DWS ¹
Wood Deck	1	L525	—	1	1/2	24	113	CertainTeed DWS ¹
Wood Deck	1	L526	—	1	1/2	24	100	CertainTeed DWS ¹
Wood Deck	1	L529	—	1	1/2	24	113	CertainTeed DWS ¹

1. Maximum 50" cross tee
2. Maximum 72" cross tee

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).

ROOF/CEILING DRYWALL 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

Type of construction	Maximum time rating (hrs)	ULC design number	Concrete thickness (inches)	Number of drywall layers	Minimum drywall thickness (inches)	Maximum fixture penetration (ft ² /100 ft ²)	Maximum duct penetration (ft ² /100 ft ²)	Drywall grid system
BUR, modified or single-ply over steel deck, steel joists	1-1/2	P506	—	1	5/8	24	113	CertainTeed DWS ¹
BUR, modified or single-ply over steel deck, steel joists	1	P508	—	1	5/8	24	144	CertainTeed DWS ¹
BUR, modified or single-ply over steel deck, steel joists	1	P509	—	1	5/8	24	144	CertainTeed DWS ¹
BUR, modified or single-ply over steel deck, steel joists	1-1/2	P510	—	1	5/8	24	113	CertainTeed DWS ¹
BUR, modified or single-ply over steel deck, steel joists	1-1/2	P513	—	1	5/8	24	144	CertainTeed DWS ¹
BUR, modified or single-ply over steel deck, steel joists	2	P514	—	1	5/8	24	255	CertainTeed DWS ¹
BUR, modified or single-ply over steel deck, steel joists	2	P560	—	1	5/8	15.3	54	CertainTeed DWS ¹

ULC FIRE RESISTIVE ASSEMBLIES

FLOOR/CEILING DRYWALL ASSEMBLIES

Type of construction	Maximum time rating (hrs)	ULC design number	Concrete thickness (inches)	Number of drywall layers	Minimum drywall thickness (inches)	Maximum fixture penetration (ft ² /100 ft ²)	Maximum duct penetration (ft ² /100 ft ²)	Drywall grid system
Concrete on metal lath or corrugated steel deck, steel joists	2	G021	2-1/2	1	1/2	15.3	54	CertainTeed DWS ¹
Concrete on metal lath or corrugated steel deck, steel joists	1	G021	2-1/2	1	1/2	15.3	54	CertainTeed DWS ²

ROOF/CEILING DRYWALL ASSEMBLIES

Type of construction	Maximum time rating (hrs)	ULC design number	Concrete thickness (inches)	Number of drywall layers	Minimum drywall thickness (inches)	Maximum fixture penetration (ft ² /100 ft ²)	Maximum duct penetration (ft ² /100 ft ²)	Drywall grid system
BUR, modified or single-ply over steel deck, steel joists	2	R503	—	1	5/8	15.3	54	CertainTeed DWS ¹

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2. Maximum 72" cross tee

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