

# Drywall Fire Resistive Designs

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- Refer to UL Directory for full installation/assembly details

# UL Fire Resistive Drywall Grid System Assemblies

Drywall & ShortSpan Grid Systems

Deck Construction Type	UL Design Number	Concrete Thickness	# Drywall Layers	Minimum Drywall Thickness	Maximum Fixture Penetration (Ft <sup>2</sup> /100 Ft <sup>2</sup> )	Maximum Duct Penetration (In <sup>2</sup> /100 Ft <sup>2</sup> )	Drywall Grid System
<b>Floor/Ceiling Drywall Assemblies</b>							
<b>CONCRETE ON COMPOSITE FLAT CELLULAR, FLUTED OR BLEND DECK</b>							
2-Hour	D501	2 1/2"	1	5/8"	None	None	DFR 8000
	D502**	2 1/2"	1	5/8"	24	144	DFR 8000
<b>CONCRETE ON METAL LATH, CORRUGATED AND RIBBED DECK</b>							
3-Hour	G523**	3	1	5/8"	24	144	DFR 8000
	G524***	3 1/2", 3 3/4"	1	1/2"	None	113	DFR 8000
	G529	3 1/4"	1	1/2"	24	57	DFR 8000
	G529	2 3/4"	1	5/8"	24	57	DFR 8000
2-Hour	G523	2 1/2"	1	1/2" or 5/8"*	24	144	DFR 8000
	G524***	3 1/2", 3 3/4"	1	1/2"	None	113	DFR 8000
	G527	2 1/2"	1	1/2" or 5/8"*	None	None	DFR 8000
	G529	2 1/2"	1	1/2"	24	57	DFR 8000
1 1/2-Hour	G528	2 1/2"	1	1/2" or 5/8"*	None	None	DFR 8000
	G524	2 3/4" – 3"	1	1/2" or 5/8"	***	***	DFR 8000
<b>PRECAST CONCRETE SLAB</b>							
3-Hour	J502	2 3/4"	1	5/8"	None	None	DFR 8000
2-Hour	J502	2"	1	5/8"	None	None	DFR 8000

\* Depends On Rating, Manufacturer    \*\* Optional acoustical tile may be glue applied to gypsum board    \*\*\* Concrete thickness depends on joist depth used  
 Armstrong Drywall Furring Item XL7936G90 cannot be used as part of a UL Fire Resistive Design.  
 DFR 8000 - UL Designation, Fire Guard Drywall Grid System

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<b>Wood Deck/Ceiling Drywall Assemblies</b>							
<b>PLYWOOD 2 X 10 WOOD JOISTS</b>							
1-Hour	L502	NA	1	1/2"	None	None	DFR 8000
	L513	NA	1	5/8"	None	None	DFR 8000
	L515	NA	1	1/2"	None	None	DFR 8000
	L525	NA	1	1/2" or 5/8" *	24	57	DFR 8000
	L526**	NA	1	5/8"	24	114	DFR 8000
<b>PLYWOOD (2) 2 X 10 OR (1) 4 X 10 WOOD JOISTS</b>							
1-Hour	L508	NA	1	5/8"	None	None	DFR 8000
<b>PLYWOOD WITH WOOD TRUSSES</b>							
1-Hour	L529	NA	1	5/8"	24	57	DFR 8000
<b>DEITRICH TRADEREADY FLOOR SYSTEM/CEILING DRYWALL ASSEMBLIES</b>							
1-Hour	L564	3/4" Cement Fiber Units	1	5/8"	None	None	DFR 8000
1-Hour Corrugated Decking	G553	3/4"	1	5/8"	None	None	DFR 8000

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<b>Roof/Ceiling Drywall Assemblies</b>							
<b>STANDING SEAM EXPOSED METAL ROOF WITH BATTS/BLANKETS</b>							
1-Hour	P516	NA	2	5/8"	None	None	DFR 8000
<b>MINERAL FIBER, FOAM ON CELLULAR, FLUTED, CORRUGATED METAL DECK</b>							
2-Hour	P501	NA	1	5/8"	None	None	DFR 8000
	P514	NA	1	5/8"	24	255	DFR 8000
1 1/2-Hour	P507	NA	1	5/8"	24	57	DFR 8000
	P510	NA	1	5/8"	24	57	DFR 8000
	P513**	NA	1	5/8"	24	144	DFR 8000
1-Hour	P508**	NA	1	5/8"	24	144	DFR 8000
	P509**	NA	1	5/8"	24	144	DFR 8000
	P510	NA	1	1/2"	24	57	DFR 8000
<b>MINERAL FIBER/LAMINATED GYPSUM PLANKS</b>							
1 1/2-Hour	P506	NA	1	5/8"	24	57	DFR 8000

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