Wall Designs, Fire and Acoustic, Steel Frame

June 2007

Fire Resistance Level	Standard Fire Walls	Acoustic Fire Walls (acoustic results from selected tests and computer modelling)				
	Legend: Mineral Wool – 63mm and 450°C (service temp.); Glass Wool – R2.0	R_w Higher is better		$R_w + C_{tr}$ Higher is better		
		45 +	**50 +**	**50+**	**53 +**	**60 +**
-/30/30	PRS30SiA: 13 / 64 x 0.5 / 13	PRS30SiC: 13 / 92 x 0.55 / 13	PRS30StA: 13 / 64 x 0.5 / 13 PRS30SiD: 13 13 / 92 x 0.55 / 13	PRS30StB: 13 13 / 64 x 0.5 / 13	PRS30DoA: 13 13 / 92 x 0.55 / 13	
30/30/30	PRSL30SiA: 13 / 64 x 0.5 / 13 PRSL30SiB: 13 / 92 x 0.55 / 13	PRSL30SiC: 13 / 92 x 0.55 / 13 PRS30DoB: 13 / 64 x 0.5 / 13	PRSL30SiD: 13 13 / 92 x 0.55 / 13			
-/60/60	PRS60SiA: 13 / 64 x 0.5 / 13 PRS60SiB: 16 / 92 x 0.55 / 16	PRS60SiC: 13 / 92 x 0.55 / 13 PRS60SiD: 16 / 92 x 0.55 / 16	PRS60StA: 16 / 64 x 0.5 / 16 PRS60StB: 13 / 64 x 0.5 / 13 PRS60SiE: 13 6.5 / 92 x 0.55 / 6.5 13	PRS60StG: 13 6.5 / 64 x 0.5 / 16 PRS60StE: 13 13 / 64 x 0.5 / 13 13 PRS60StF: 13 6.5 / 64 x 0.5 / 6.5 13	PRS60DoB: 16 / 76 x 0.55 / 16	PRS60DoA: 13 13 / 92 x 0.55 / 13 13
60/60/60	PRSL60SiB: 16 / 92 x 0.9 / 16	PRSL60SiD: 16 / 92 x 0.9 / 16				

Important Notes: All stud spacing 600mm. Staggered stud systems include discontinuous top and bottom plates.
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USG powerscape

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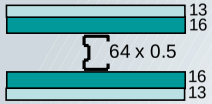
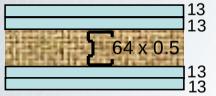
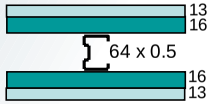
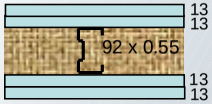
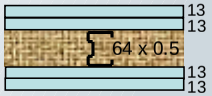
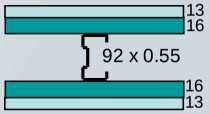
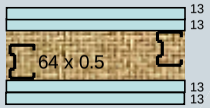
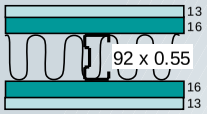
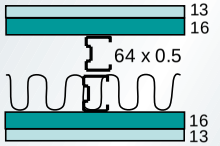
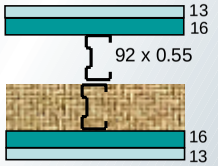
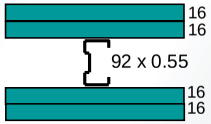
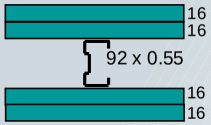
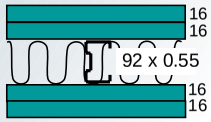
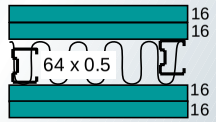
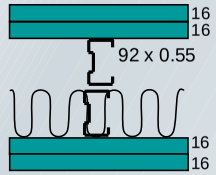
		45 +	**50 +**	**50+**	**53 +**	**60 +**
-90/90	PRS90SiA  PRS90SiB 	PRS90SiA 	PRS90SiC  PRS90SiB  PRS90SiD 	PRS90StA  PRS90SiE 		PRS90DoA  PRS90DoB 
-120/120	PRS120SiA 		PRS120SiA 	PRS120SiB 	PRS120StA 	PRS120DoA 

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