

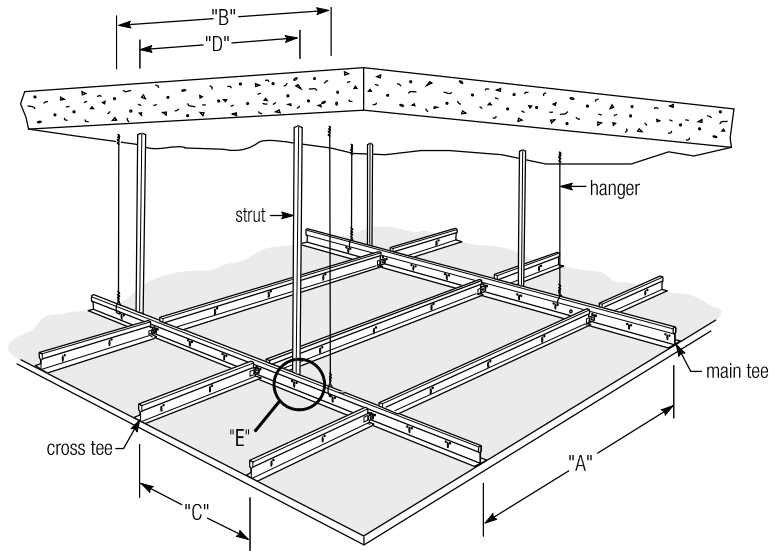
Technical Information

The new USG Drywall Suspension System has been engineered and designed for uplift resistance for interior ceilings. See illustration below. USG has different grid and wind load combinations to accommodate your design parameters.

Below is a chart indicating the components, their spacing, strut options, and allowable plenum depths which are necessary to achieve the different uplift classifications. For applications not covered here contact your nearest USG.

Design wind loads vary with geographic region and building conditions, and must be established by a professional engineer or architect.

Interior Ceiling



Wind & Static Design Chart	Wind Uplift Load (kPa)	Plasterboard lining	Main Tee Type	"A" Main Tee Spacing	"B" Hanger Spacing (max)	"C" Cross Tee Spacing	"D" Strut Centres (mm)	Strut Type						"E" Strut Fasteners Load kg	
								MT45 @ 500mm Plenum	MT45 @ 800mm Plenum	DJ4040 @ 500mm Plenum	DJ4040 @ 1000mm Plenum	DGPC-40 @ 500mm Plenum	DGPC-40 @ 1000mm Plenum		
<p>NOTES:</p> <p>Install hangers and Drywall Suspension System first then install struts.</p> <p>For strut to Main Tee typical connection, see DJ4040 detail, page 4.</p> <p>Suitable single or multiple fasteners may be used, provided their shear value(s) equal or exceed "E".</p> <p>Strut to structure fasteners need only be suitable for the substrate material.</p> <p>Only steel fasteners shall be used for fire rated ceilings</p> <p>Static design based on: Lights + Tees = 2 kg/m² Service Load = 3 kg/m²</p>	0.2	10mm	DGL 40D	1200	1000	400	1400	✓	✓	✓	✓	✓	✓	✓	21.4
	0.2	13mm/16mm	DGL 40D	1200	1000	600	1400	✓	✓	✓	✓	✓	✓	✓	18.5
	0.4	10mm	DGL 40D	1200	1000	400	800	✓	✓	✓	✓	✓	✓	✓	31.8
	0.4	13mm/16mm	DGL 40D	1200	1000	600	800	✓	✓	✓	✓	✓	✓	✓	30.1
	0.6	10mm	DGL 40D	1200	1000	400	600	-	-	✓	-	✓	✓	✓	38.5
	0.6	13mm/16mm	DGL 40D	1200	1000	400	600	✓	-	✓	✓	✓	✓	✓	37.3
	0.6	13mm/16mm	DGL 55D	1200	1200	400	1000	-	-	-	-	✓	✓	✓	60.0
	0.8	10mm	DGL 40D	600	1400	600	800	✓	-	✓	✓	✓	✓	✓	35.5
	0.8	13mm/16mm	DGL 40D	1200	1000	400	600	-	-	-	-	✓	✓	✓	51.9
	0.8	16mm	DGL 55D	1200	1200	400	800	-	-	-	-	✓	✓	✓	67.6
	1.0	10mm	DGL 40D	600	1400	600	600	✓	-	✓	✓	✓	✓	✓	33.9
	1.0	13mm/16mm	DGL 40D	600	1000	600	600	✓	-	✓	✓	✓	✓	✓	33.3
	1.0	13mm	DGL 55D	600	1400	600	1000	-	-	-	-	✓	✓	✓	55.5
	1.0	16mm	DGL 55D	600	1400	600	800	-	-	-	-	✓	✓	✓	43.6
	1.2 - 1.6	10mm	DGL 40D	600	1400	600	600	-	-	-	-	✓	✓	✓	56.0
	1.2 - 1.6	13mm/16mm	DGL 40D	600	1000	600	600	-	-	-	-	✓	✓	✓	55.3
1.8 - 2.0	10/13/16mm	DGL 55D	600	1400	600	800	-	-	-	-	✓	✓	✓	94.2	
2.2	10/13/16mm	DGL 55D	600	1400	600	700	-	-	-	-	✓	✓	✓	91.0	
2.4 - 2.6	13/16mm	DGL 55D	600	1400	600	600	-	-	-	-	✓	✓	✓	92.0	
0.2	2 x 16mm	DGL 55D	1200	1000	600	1400	✓	✓	✓	✓	✓	✓	✓	15.0	
0.4	2 x 16mm	DGL 55D	1200	1000	600	1400	✓	-	✓	✓	✓	✓	✓	34.0	
0.6	2 x 16mm	DGL 55D	1200	1000	600	1000	-	-	-	-	✓	✓	✓	48.8	
0.8	2 x 16mm	DGL 55D	1200	1000	400	1000	-	-	-	-	✓	✓	✓	73.2	
1.0 - 1.4	2 x 16mm	DGL 55D	600	1000	600	1000	-	-	-	-	✓	✓	✓	73.3	
1.6 - 2.2	2 x 16mm	DGL 55D	600	1000	600	800	-	-	-	-	✓	✓	✓	97.8	
2.4 - 2.6	2 x 16mm	DGL 55D	600	1000	600	600	-	-	-	-	✓	✓	✓	88.0	