## ASTM C754 - 18 30 MIL COMPOSITE 5/8" BOARD

Depth	Member Designation	Spacing (in.)	5 (psf)			7.5 (psf)			10 (psf)		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
			ft - in	ft - in	ft - in	ft - in	ft - in	ft - in	ft - in	ft - in	ft - in
1-5/8"	162S125-30	12	14-11	11-10	10-4	13-1	10-4	8-11	11-10	9-4	7-11
		16	13-7	10-9	9-4	11-10	9-4	7-11	10-9	8-3	n/a
		24	11-10	9-4	7-11	10-4	7-11	n/a	9-4	n/a	n/a
2-1/2"	2505125-30	12	18-5	15-10	14-1	16-1	13-10	12-4	14-7	12-7	11-2
		16	16-9	14-5	12-10	14-7	12-7	11-2	13-3	11-5	10-2
		24	14-7	12-7	11-2	12-9	11-0	9-9	11-7	10-0	8-8
3-1/2"	3505125-30	12	22-6	17-11	15-8	19-8	15-8	13-8	17-11	14-2	12-4
		16	20-6	16-3	14-2	17-11	14-2	12-4	16-3	12-11	11-1
		24	17-11	14-2	12-4	15-8	12-4	10-7	13-9f	11-1	n/a
3-5/8″	3625125-30	12	22-10	18-3	16-4	19-11	16-0	14-3	18-1	14-6	12-11
		16	20-8	16-7	14-10	18-1	14-6	12-11	16-5	13-2	11-6
		24	18-1	14-6	12-11	15-9f	12-8	10-11	13-8f	11-4	n/a
4"	400S125-30	12	24-6	19-5	17-0	21-5	17-0	14-10	19-5	15-5	13-6
		16	22-3	17-8	15-5	19-5	15-5	13-6	17-5f	14-0	12-2
		24	19-5	15-5	13-6	16-5f	13-6	11-7	14-2f	12-2	10-4
5-1/2"	550S125-30	12	30-5	24-10	22-0	27-0	22-0	19-5	24-10	20-2	17-10
		16	28-0	22-9	20-2	24-10f	20-2	17-10	21-7f	18-6	16-2
		24	24-10	20-2	17-10	20-4f	17-10	15-7	17-7f	16-2	n/a
6"	600S125-30	12	34-2	27-1	23-8	28-11f	23-8	20-8	25-0f	21-6	18-9
		16	30-8f	24-7	21-6	25-0f	21-6	18-9	21-8f	19-6	17-1
		24	25-0f	21-6	18-9	20-5f	18-9	16-5	17-8f	17-1	n/a

Notes to Table:

1. Allowable composite heights are derived from tests conducted in accordance with ICC-ES AC86-2012.

2. Table heights also applicable for two layers of gypsum board.

3. The gypsum board (one or two layers) must be installed vertically full height to each stud flange using minimum No. 6 Type S drywall screws spaced a maximum of 12 in. on-center for studs at 24 in. spacing, and 16 in. on-center for studs at 16 in. and 12 in. spacing. Gypsum board (one or two layers) must be attached to each top and bottom track flange using minimum No. 6 drywall screws at maximum 16 in. on-center.

- 4. Application of gypsum board as required in accordance with Specification C840.
- 5. No fasteners are required for attaching the stud to the track except as required by subsection 5.3.2.1.
- 6. Stud end bearing must be a minimum of 1 in.
- 7. Minimum material yield strength equals 33 ksi (230 MPa).

8. 'f' adjacent to the height value indicates that flexural stress controls the allowable wall height.

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