

# TRAPEZE LOAD SUPPORT SOLUTIONS



Trapeze Load Support with two main beams nested

Trapeze solutions offer calculated and resourceful solutions for supporting hanger wires under plenum obstructions using scrap material contractors already have on their jobsite.

## SINGLE MEMBER PLENUM TRAPEZE

Fig. 1

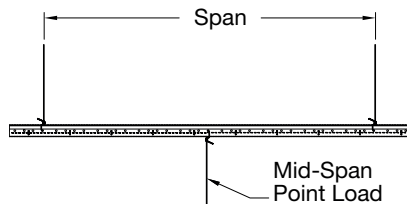
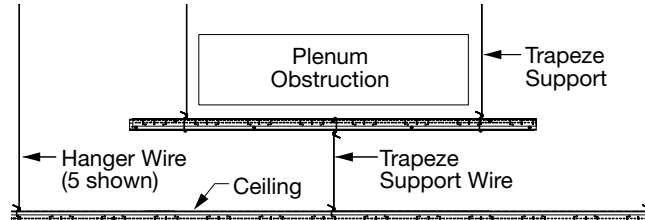


Fig. 2



**FIG. 2 NOTE:** W Referencing Table A, a 4 ft. span of 7301 Main Beam used as a "Trapeze Support" can carry a mid-span point load of 32 lbs. If the "Trapeze Support Wire" (see Fig. 2) is supporting a ceiling area of 16 sq-ft. (4-ft. main spacing × 4-ft. hanger wire spacing), the maximum allowable uniform weight of the ceiling is 2 lb./sq-ft. (32 lb. ÷ 16 sq-ft. = 2 lb./sq-ft.)

TABLE A

Single Member Plenum Trapeze (see Fig. 1)	Trapeze Span (ft.)				
	4'	5'	6'	7'	8'
<b>ACOUSTICAL GRID</b>					
730145 - Prelude® XL Max® Main Beam	80	50	30	20	-
HD* Main Beam (7301, 7501, 7601, 6101)	32	20	-	-	-
ID* Main Beam (7300, 7500, 7600, 6100)	24	-	-	-	-
<b>FRAMEALL™ DRYWALL GRID</b>					
S7708 - ShortSpan® Cross Tee	44	28	-	-	-
HD8906 - Main Beam	36	23	-	-	-
XL8965 - Cross Tee	28	-	-	-	-

\* Duty classification determined by performance and testing specifications of ASTM C635.



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## NESTED COMPOSITE MEMBERS; SCREW ATTACHED (I-BEAM)

Fig. 3

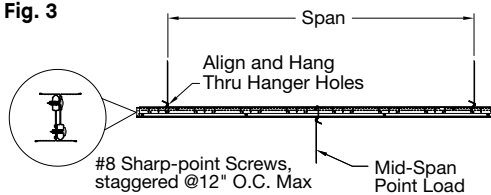


TABLE B

Nested Composite Members; Screw Attached (I-Beam) (see Fig. 3)	Trapeze Span (ft.)				
	4'	5'	6'	7'	8'
<b>ACOUSTICAL GRID</b>					
HD* Main Beam (7301, 7501, 7601, 6101)	59	38	29	24	-
ID* Main Beam (7300, 7500, 7600, 6100)	47	32	24	20	-
<b>FRAMEALL™ DRYWALL GRID</b>					
HD8906 – Main Beam	91	73	51	37	28
S7708 – ShortSpan Cross Tee	104	87	61	44	34

\* Duty classification determined by performance and testing specifications of ASTM C635.

## STRONGBACK™ / ACOUSTICAL MAIN BEAMS COMPOSITE MEMBERS; NO SINGLE WIRE BELOW

Fig. 4

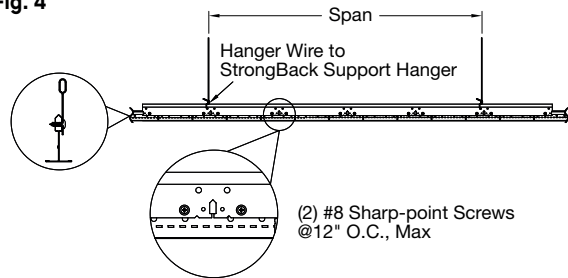


TABLE C

Composite Members; No Single Wire Below (see Fig. 4)	Trapeze Span (ft.)				
	4'	5'	6'	7'	8'
<b>STRONGBACK / MAIN BEAM COMPOSITE AT CEILING PLANE</b>					
	Allowable Uniform Point Load (lb./ft.)				
SH12/HD* Main Beams (7301, 7501, 7601, 6101)	40	24	14	8	-
SH12/ID* Main Beams (7300, 7500, 7600, 6100)	27	19	11	6	-

\* Duty classification determined by performance and testing specifications of ASTM C635.