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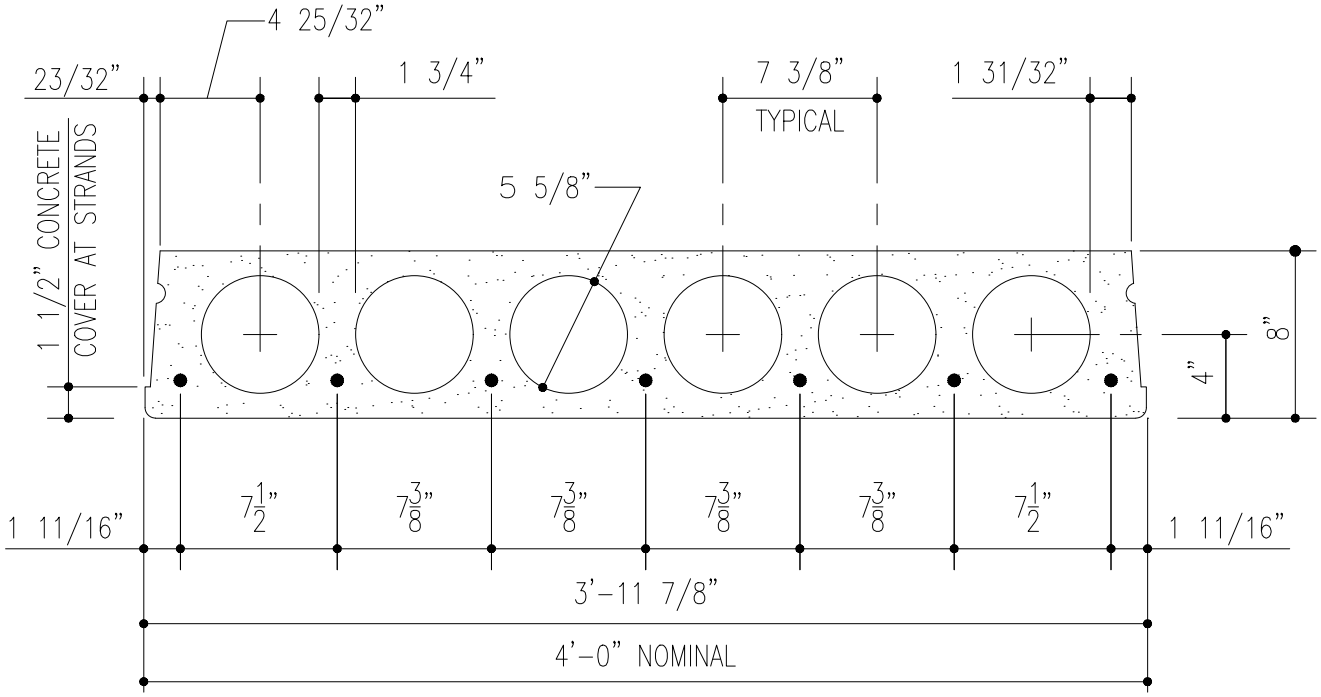
8" CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 8" CELLA-CORE PLANK

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																					
			14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
5-1/2" ø	0.765	89	416	383	345	308	276	248	225	205	185	165	148	132	119	107	96	86	78	70				
7-1/2" ø	1.071	121	441	407	377	351	326	294	266	242	221	202	185	171	158	146	135	125	117	109	100	91	83	75

Values below lower heavy line indicate web shear controls.
Values are terminated before long term camber is less than +3/8" with no superimposed loads.

MATERIAL PROPERTIES

Net Area	*226 in²*	*Strength of Concrete (f 'c)*	*6000 psi*
Moment of Inertia	*1768 in⁴*	*Strength at Release (f 'ci)*	*3500 psi*
Centroid from Slab Bottom	*4.00 in*	*Unit weight of Concrete*	*150 pcf*
Section Modulus, Top	*442 in³*	*Ultimate Steel Strength*	*270 ksi*
Section Modulus, Bottom	*442 in³*	*Strand Jacking Stress*	*175.5 ksi*
Web Width	*12.94 in*	*Strand Type*	*Low Relaxation*
V/S Ratio	*2.13 in*	*Grout Joint Requirements*	*1707 ft²/ yd³*
*Self Weight **	*62 psf*	** Self weights based on grouted section*	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.