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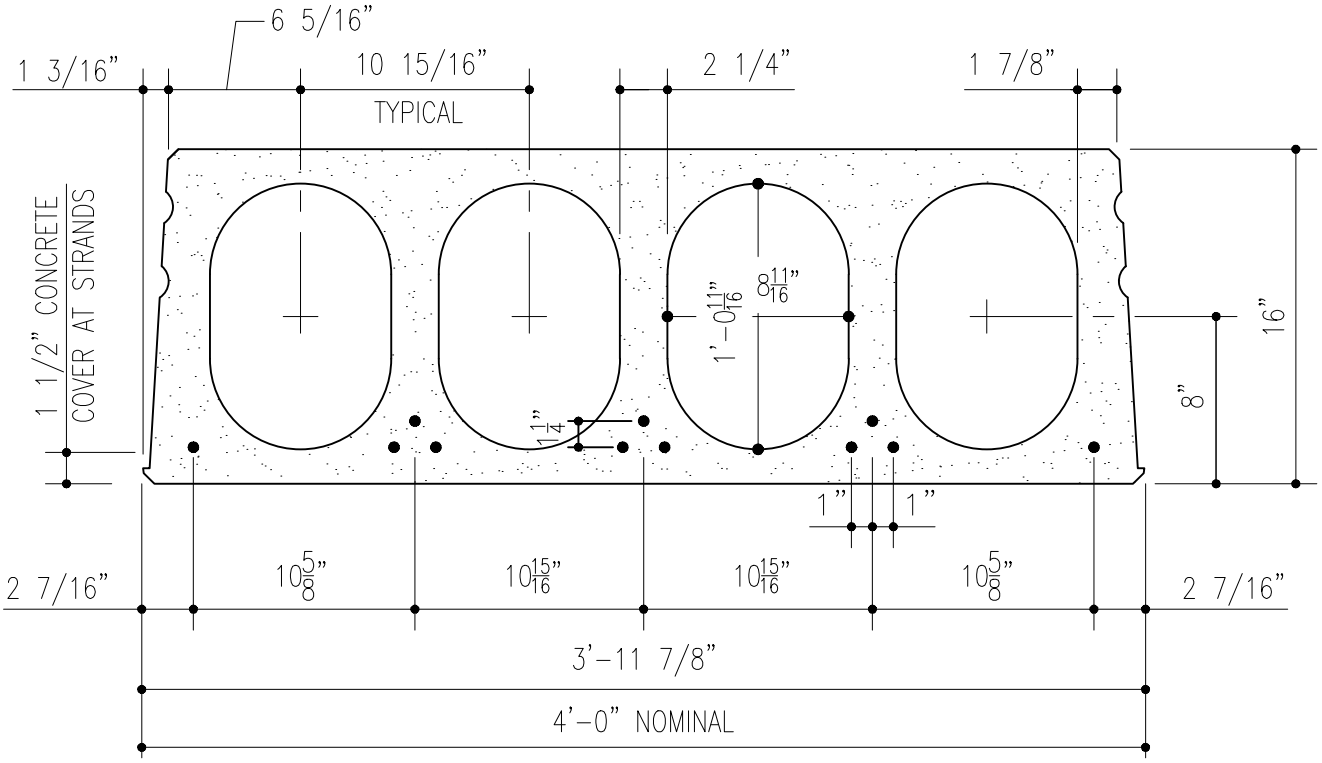
16" CELLA-CORE TECHNICAL DATA SHEET



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

STANDARD WEIGHT 16" CELLA-CORE PLANK

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																										
			34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
8-1/2" ø	1.224	337	281	263	244	227	211	196	183	170	158	147	137	127	119	110	102	95	88	81	75						
9-1/2" ø	1.377	376	298	281	265	250	238	225	213	199	186	174	162	152	142	132	123	115	108	100	93	87	81	74			
10-1/2" ø	1.530	413	314	297	280	264	251	237	225	214	203	192	184	174	164	153	144	135	126	118	110	103	95	88	81	74	68
11-1/2" ø	1.683	449	330	311	294	278	263	249	237	224	213	203	193	183	175	167	159	149	140	131	123	115	107	100	94	87	80

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	*395 in^2*	*Strength of Concrete (f 'c)*	*6000 psi*
Moment of Inertia	*12360 in^4*	*Strength at Release (f 'ci)*	*3500 psi*
Centroid from Slab Bottom	*8.30 in*	*Unit weight of Concrete*	*150 pcf*
Section Modulus, Top	*1605 in^3*	*Ultimate Steel Strength*	*270 ksi*
Section Modulus, Bottom	*1489 in^3*	*Strand Jacking Stress*	*175.5 ksi*
Web Width	*13.86 in*	*Strand Type*	*Low Relaxation*
V/S Ratio	*2.47 in*	*Grout Joint Requirements*	*871 ft^2/ yd^3*
*Self Weight **	*107 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.