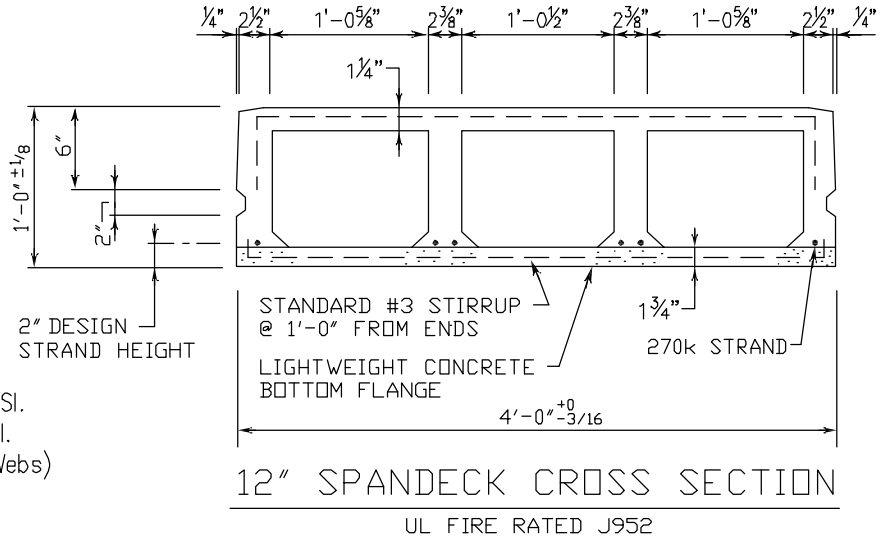


Prestressed Concrete 12" x 4' SpanDeck—U.L.—J952 (NO TOPPING)

PHYSICAL PROPERTIES			
Precast			
A	= 238 in. ²	S _b	= 640 in. ³
I	= 3915 in. ⁴	S _t	= 666 in. ³
Y _b	= 6.12 in.	Wt.	= 310 PLF
Y _t	= 5.88 in.	Wt.	= 77.5 PSF



DESIGN DATA

1. Precast Strength @ 28 days = 5000 PSI.
2. Precast Strength @ release = 3000 PSI.
3. Precast Density = 150 PCF (Top and Webs)
= 115 PCF (Soffit)
4. Strand = 1/2"φ, 270 K Lo-Relaxation.
5. Strand Height = 2.00 in.
6. Ultimate moment capacities (when fully developed)...
4 - 1/2"φ, 270K = 119.0'k
6 - 1/2"φ, 270K = 171.7'k
7. Maximum bottom tensile stress is $6\sqrt{f'_c} = 424$ PSI.
8. All superimposed load is treated as live load in the strength analysis of flexure and shear.
9. Flexural strength capacity is based on stress/strain strand relationships.
10. Shear values are the maximum allowable before shear reinforcement is required.
11. Deflection limits were not considered when determining allowable loads in this table.
12. All values in this table are based on ultimate strength and are not governed by service stress.

12" SPANDECK W/O TOPPING		ALLOWABLE SUPERIMPOSED LOAD (PSF)																							
		SPAN (FEET)																							
STRAND PATTERN		18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
Flexure	4 - 1/2"φ	369	324	286	253	225	201	179	160	143	128	114	102	91	81	72	64	X							
Shear	4 - 1/2"φ	353	328	309	291	271	247	225	206	189	174	160	148	141	134	124	115	X							
Flexure	6 - 1/2"φ	559	495	441	394	353	318	286	259	235	213	193	176	160	146	131	121	111	101	92	83	76	69	62	
Shear	6 - 1/2"φ	373	349	327	307	289	273	259	245	233	220	203	188	175	162	150	139	129	120	112	105	98	94	90	



This table is for simple spans and uniform loads. design data for any of these span-load conditions is available on request. Individual designs may be furnished to satisfy unusual conditions of heavy loads, concentrated loads, cantilevers, flange or stem openings and narrow widths.