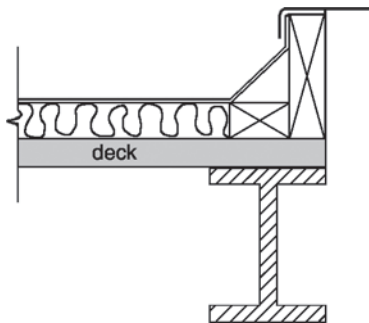


AVOID THE CRUNCH

DECK DESIGN DATA SHEET



QUESTION

What is the crushing capacity of roof deck that is sandwiched between a load and a support?

ANSWER

This is defined as the "Two Flange End Loading Web Crippling Capacity" when the load is near the end of a deck sheet.

Allowable Two Flange End Loading for Fastened Deck -- PLF (F_y 40 ksi)											
Deck Type	B				F			N			
Min. "a"	2.25"				2.25"			4.5"			
Bearing Width	22	20	18	16	22	20	18	22	20	18	16
2	670	1020	1855	3010	745	1120	1990	480	740	1360	2220
2.5	710	1080	1960	3165	790	1185	2100	510	785	1435	2340
3	750	1140	2050	3310	835	1245	2200	540	825	1505	2445
3.5	770	1170	2100	3370	875	1300	2295	565	860	1570	2540
4	770	1170	2100	3370	910	1355	2380	585	895	1625	2635
4.5	770	1170	2100	3370	915	1360	2385	610	930	1680	2720
5	770	1170	2100	3370	915	1360	2385	630	960	1735	2800
5.5	770	1170	2100	3370	915	1360	2385	650	990	1785	2875
6	770	1170	2100	3370	915	1360	2385	670	1015	1835	2950
6.5	770	1170	2100	3370	915	1360	2385	675	1045	1880	3020
7	770	1170	2100	3370	915	1360	2385	675	1070	1920	3085

1. Choose the lesser bearing width of the load or support to determine the capacity.
2. "Two Flange Interior Loading" applies when the end of the deck extends less than 1.5 times the deck depth beyond the edge of the beam or load point.
3. The above table is based on the AISI Standard North American Specification for the Design of Cold-Formed Steel Structural Members, 2007 Edition.



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