

AVOID THE CRUNCH

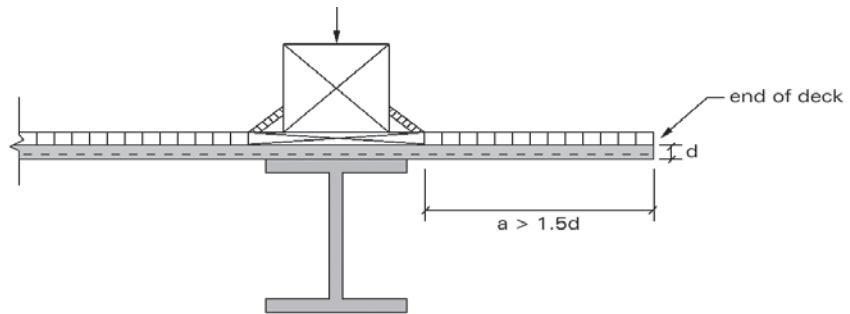
DECK DESIGN DATA SHEET

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 Interior Loading Web Crippling Capacity" when the load is not near the end of a deck sheet.



Allowable Two Flange Interior Loading for Fastened Deck -- PLF ($F_u \leq 40$ 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	1185	1745	3040	4780	1320	1915	3270	945	1385	2395	3755
2.5	1275	1870	3250	5090	1420	2055	3495	1015	1485	2560	3995
3	1355	1985	3435	5370	1510	2180	3695	1080	1575	2705	4215
3.5	1400	2050	3525	5490	1590	2295	3880	1135	1660	2840	4420
4	1400	2050	3525	5490	1665	2400	4070	1190	1735	2965	4605
4.5	1400	2050	3525	5490	1675	2410	4070	1245	1810	3085	4785
5	1400	2050	3525	5490	1675	2410	4070	1290	1875	3200	4950
5.5	1400	2050	3525	5490	1675	2410	4070	1335	1940	3305	5110
6	1400	2050	3525	5490	1675	2410	4070	1380	2000	3405	5260
6.5	1400	2050	3525	5490	1675	2410	4070	1395	2060	3505	5405
7	1400	2050	3525	5490	1675	2410	4070	1395	2120	3600	5545

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 more than 1.5 times the deck depth beyond the edge of the beam or load point. An Interior Reaction is such a case.
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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