

These are Factored loads. Use these for strength resistance or failure checks only!

Do not use these to check deflection!!!

Dead Load	D
Live Load	L
Snow Load	S
Wind Load	W

1.28
2.4
2
1

Sign Convention
Downward (gravity) loads are
are Positive Upward loads
are negative

USE THIS BLOCK FOR CHECKING MAX DOWNWARD GRAVITY LOADS

Case			D	L	S	W	TOTAL
1	1.4D		1.40	0.00	0.00	0.00	
			1.79	0.00	0.00	0.00	1.79
2a	1.25D+1.5L+0.5S		1.25	1.50	0.50	0.00	
			1.60	3.60	1.00	0.00	6.20
2b	1.25D+1.5L+0.4W		1.25	1.50	0.00	0.40	
			1.60	3.60	0.00	0.40	5.60
3a	1.25D+1.5S+0.5L		1.25	0.50	1.50	0.00	
			1.60	1.20	3.00	0.00	5.80
3b	1.25D+1.5S+0.4W		1.25	0.00	1.50	0.40	
			1.60	0.00	3.00	0.40	5.00
4a	1.25D+1.4W+0.5L		1.25	0.50	0.00	1.40	
			1.60	1.20	0.00	1.40	4.20
4b	1.25D+1.4W+0.5S		1.25	0.00	0.50	1.40	
			1.60	0.00	1.00	1.40	4.00

MAX	6.20
MIN	1.79

USE THIS BLOCK FOR CHECKING MIN DOWNWARD (UPLIFT LOADS)

Case			D	L	S	W	TOTAL
1	0.9D		0.90	0.00	0.00	0.00	
			1.15	0.00	0.00	0.00	1.15
2a	0.9D+1.5L+0.5S		0.90	1.50	0.50	0.00	
			1.15	3.60	1.00	0.00	5.75
2b	0.9D+1.5L+0.4W		0.90	1.50	0.00	0.40	
			1.15	3.60	0.00	0.40	5.15
3a	0.9D+1.5S+0.5L		0.90	0.50	1.50	0.00	
			1.15	1.20	3.00	0.00	5.35
3b	0.9D+1.5S+0.4W		0.90	0.00	1.50	0.40	
			1.15	0.00	3.00	0.40	4.55
4a	0.9D+1.4W+0.5L		0.90	0.50	0.00	1.40	
			1.15	1.20	0.00	1.40	3.75

4b	0.9D+1.4W+0.5S		0.90	0.00	0.50	1.40	
			1.15	0.00	1.00	1.40	3.55

MAX	5.75
MIN	1.15

input
answer

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