

MARCORE-R (Roof Deck)

MARCORE-RA (Acoustical Roof Deck)

SECTION PROPERTIES							
GAUGE	t (in)	Wd (psf)	Ip (in ⁴)	In (in ⁴)	Sp (in ³)	Sn (in ³)	Fy (ksi)
22	0.0295	2.2	0.407	0.277	0.299	0.263	50
20	0.0358	2.6	0.493	0.361	0.0362	0.326	50
18	0.0474	3.4	0.649	0.478	0.473	0.429	40

Where:

- t = the thickness of cold-formed steel sheet
- Wd = deck self weight per foot of width
- Ip = Moment of inertia per foot of width of deck (positive bending)
- In = Moment of inertia per foot of width of deck (negative bending)
- Sp = Section modulus per foot of width of deck (positive bending)
- Sn = Section modulus per foot of width of deck (negative bending)
- Fy = Yield stress of steel deck

GAUGE	Va (lb/ft)		Fy (ksi)
	LRFD	ASD	
22	5525	3223	50
20	6704	3911	50
18	7101	4142	40

Where:

- Va = allowable shear value per foot of deck
- LRFD = Load and Resistance Factor Design
- ASD = Allowable Stress Design

**Note: Reduce loads on pages 35 and 36 by approximately 5% for acoustical deck.
Contact Marlyn Steel Decks, Inc. for details.