

New Millennium Building Systems Versa-Dek LS ES steel roof deck is secured to the structural supports and covered with an FM Approved fully or partially adhered roof covering or with a mechanically attached roof covering when the in-row fastener spacing is less than or equal to one-half of the deck span, per proprietary listings.

Versa-Dek LS ES has a 6 in. (150 mm) rib module spacing and require minimum 2 in. (38 mm) thick polyisocyanurate insulation board be installed with edges along the centerline of the top flange.

Go to www.roofnav.com to obtain up to date information.

The maximum allowable span is the lesser of:

- the span shown in the tables below,
- the maximum span for the selected proprietary fastener used to secure the deck or
- the maximum span shown in the specified RoofNav assembly

The wind uplift rating of the completed roof assembly cannot exceed the wind rating of the above deck components shown in the specified RoofNav assembly.

The decks are secured to structural supports using fasteners FM Approved for securing steel deck to structural supports. Steel deck side laps are secured using fasteners FM Approved for securing steel deck laps. Refer to RoofNav product listings for fastener details.

In lieu of mechanical fasteners, the decks are secured to supports with puddle welds as noted in Tables below. The spacing shown is the maximum spacing permitted and the weld diameter shown is the minimum visible weld diameter. Maximum four sheets of 22 ga. (0.0295 in. [0.75 mm]) and 20 ga. (0.0358 in. [0.91 mm]) thick decks can be welded and maximum three sheets of 18 ga. (0.0474 in. [1.2 mm]) and two sheets of 16 ga. (0.0598 in. [1.52 mm]) thick decks can be welded.

Versa-Dek LS ES						
Secured with FM Approved fasteners or Secured with 0.75 in. (19 mm) diameter welds spaced 6 in. (150 mm) o.c.						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
22 (0.0295 [0.75])	110	2794	110	2794	110	2794
20 (0.0358 [0.91])	122	3099	122	3099	122	3099
18 (0.0474 [1.20])	140	3556	140	3556	140	3556
16 (0.0598 [1.52])	157	3988	157	3988	157	3988
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
22 (0.0295 [0.75])	130	3302	130	3302	127	3226
20 (0.0358 [0.91])	143	3632	143	3632	143	3632
18 (0.0474 [1.20])	165	4191	165	4191	165	4191
16 (0.0598 [1.52])	185	4699	185	4699	185	4699

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
	in.	mm	in.	mm	in.	mm
MSG (in. [mm])						
22 (0.0295 [0.75])	130	3302	130	3302	130	3302
20 (0.0358 [0.91])	143	3632	143	3632	143	3632
18 (0.0474 [1.20])	165	4191	165	4191	165	4191
16 (0.0598 [1.52])	185	4699	185	4699	185	4699

Versa-Dek LS ES						
Secured with 0.625 in. (15 mm) diameter welds spaced 6 in. (150 mm) o.c.						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
	in.	mm	in.	mm	in.	mm
MSG (in. [mm])						
22 (0.0295 [0.75])	110	2794	110	2794	110	2794
20 (0.0358 [0.91])	122	3099	122	3099	122	3099
18 (0.0474 [1.20])	140	3556	140	3556	140	3556
16 (0.0598 [1.52])	157	3988	157	3988	157	3988
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
	in.	mm	in.	mm	in.	mm
MSG (in. [mm])						
22 (0.0295 [0.75])	130	3302	130	3302	110	2794
20 (0.0358 [0.91])	143	3632	143	3632	134	3404
18 (0.0474 [1.20])	165	4191	165	4191	165	4191
16 (0.0598 [1.52])	185	4699	185	4699	185	4699
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
	in.	mm	in.	mm	in.	mm
MSG (in. [mm])						
22 (0.0295 [0.75])	130	3302	130	3302	130	3302
20 (0.0358 [0.91])	143	3632	143	3632	143	3632
18 (0.0474 [1.20])	165	4191	165	4191	165	4191
16 (0.0598 [1.52])	185	4699	185	4699	185	4699