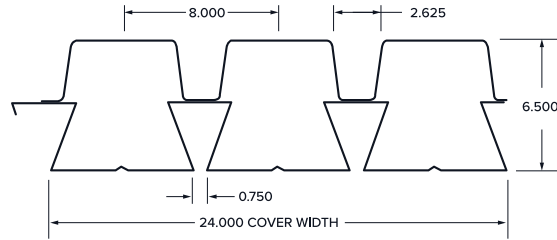


6.5" Super Versa-Dek® LS (6.5SVLS)

PROPERTIES

Gage	Thickness (in)	Cover (in)	Weight (psf)
20/20	0.0358/0.0358	24	5.81
18/18	0.0474/0.0474		7.70
16/16	0.0598/0.0598		9.72



ASD

SECTION PROPERTIES

DESIGN STRENGTHS

Gage	F _y (ksi)	I _D 1 Span (in ⁴ /ft)	I _D 2+ Span (in ⁴ /ft)	I _p (in ⁴ /ft)	I _n (in ⁴ /ft)	S _p (in ³ /ft)	S _n (in ³ /ft)	M _{n,p} /Ω (in-lb/ft)	M _{n,n} /Ω (in-lb/ft)	V _n /Ω (lb/ft)	*R _{be} /Ω (lb/ft)	*R _{bi} /Ω (lb/ft)
20/20	40	8.183	8.655	7.320	8.028	1.581	2.068	37876	49536	3383	681	1437
18/18	40	11.605	12.048	10.811	11.476	2.489	2.993	59619	71684	5931	1151	2390
16/16	40	15.239	15.887	14.486	15.458	3.564	4.138	85367	99113	8289	1771	3638

- Notes:**
- Section properties are calculated in accordance with the AISI S100-16.
 - Web crippling design strengths* are based on minimum bearing lengths of 2" for end bearing and 4" for interior bearing.

ALLOWABLE UNIFORM LOADS AND MAXIMUM CONSTRUCTION SPANS

Span Condition	Gage	Allowable Uniform Total Load (psf) / Load that Produces L/240 Deflection (psf)										SDI Max. Constr. Span (ctr / ctr)
		Center to Center Span (ft - in)										
		15 - 0	16 - 0	17 - 0	18 - 0	20 - 0	22 - 0	24 - 0	26 - 0	28 - 0	30 - 0	
Single	20/20	91 / 159	85 / 131	80 / 109	76 / 92	63 / 67	52 / 50	44 / 39	37 / 31	32 / 24	28 / 20	39 - 11
	18/18	153 / 225	144 / 186	135 / 155	123 / 130	99 / 95	82 / 71	69 / 55	59 / 43	51 / 35	44 / 28	40 - 0
	16/16	236 / 296	221 / 244	197 / 203	176 / 171	142 / 125	118 / 94	99 / 72	84 / 57	73 / 46	63 / 37	40 - 0
Double	Contact New Millennium for multiple span information											
Triple												

- Notes:**
- Allowable Uniform Loads and maximum construction spans shown are based on the following criteria:
 - ANSI/SDI RD-2017 Standard for Steel Roof Deck
 - Minimum bearing lengths of 2" for end bearing and 4" for interior bearing. Check web crippling if minimums are not met.
 - Maximum construction spans shown include a check for deck self-weight plus a nominal 200 lbs. concentrated load supported by a one foot section of deck per SDI criteria which exceeds the IBC requirement of a 300 lbs. roof maintenance load distributed over an area of 2 1/2 feet by 2 1/2 feet per Section 1607.4 and Table 1607.1.
 - "Load that Produces L/240 Deflection" values shown in RED exceed the "Allowable Uniform Total Load". These loads may be used to determine the deck capacity under deflection limits more stringent than L/240. In no case shall the "Allowable Uniform Total Load" be exceeded.
 - See website at www.newmill.com for Factory Mutual approved deck types and maximum FM construction spans.

MAXIMUM CANTILEVER SPANS

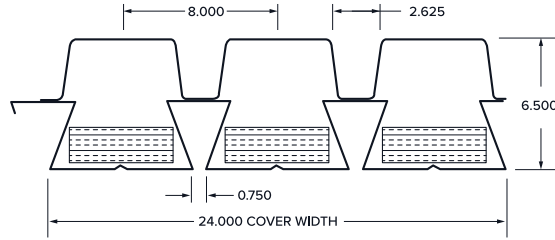
Gage	F _y (ksi)	Back-Span Condition		
		Single	Double	Triple
20/20	40	6 - 11	Contact New Millennium for multiple span information	
18/18	40	8 - 5		
16/16	40	9 - 9		

- Notes:**
- Maximum cantilever spans shown are based on the following criteria:
 - ANSI/SDI RD-2017 Standard for Steel Roof Deck
 - Adjacent span assumed to be at least 3 times longer than the cantilever and no greater than the maximum design or construction spans shown in table above
 - Bearing width at perimeter support assumed to be 4" minimum
 - Design total uniform load of 45 psf in conjunction with a 100 lb. concentrated load.

6.5" Super Versa-Dek® LS Acoustical (6.5SVLSA)

PROPERTIES

Gage	Thickness (in)	Cover (in)	Weight (psf)
20/20	0.0358/0.0358	24	5.54
18/18	0.0474/0.0474		7.35
16/16	0.0598/0.0598		9.28



ASD

SECTION PROPERTIES

DESIGN STRENGTHS

Gage	F _y (ksi)	I _D 1 Span (in ⁴ /ft)	I _D 2+ Span (in ⁴ /ft)	I _p (in ⁴ /ft)	I _n (in ⁴ /ft)	S _p (in ³ /ft)	S _n (in ³ /ft)	M _{n,p} /Ω (in-lb/ft)	M _{n,n} /Ω (in-lb/ft)	V _n /Ω (lb/ft)	*R _{be} /Ω (lb/ft)	*R _{bi} /Ω (lb/ft)
20/20	40	7.618	8.518	6.856	8.206	1.552	2.105	37167	50423	3383	681	1437
18/18	40	10.787	11.785	10.090	11.586	2.435	3.056	58319	73206	5931	1151	2390
16/16	40	14.164	15.238	13.510	15.120	3.478	4.171	83315	99907	8289	1771	3638

- Notes:**
- Section properties are calculated in accordance with the AISI S100-16.
 - Web crippling design strengths* are based on minimum bearing lengths of 2" for end bearing and 4" for interior bearing.

ALLOWABLE UNIFORM LOADS AND MAXIMUM CONSTRUCTION SPANS

Span Condition	Gage	Allowable Uniform Total Load (psf) / Load that Produces L/240 Deflection (psf)										SDI Max. Constr. Span (ctr / ctr)
		Center to Center Span (ft - in)										
		15 - 0	16 - 0	17 - 0	18 - 0	20 - 0	22 - 0	24 - 0	26 - 0	28 - 0	30 - 0	
Single	20/20	91 / 148	85 / 122	80 / 102	76 / 86	62 / 62	51 / 47	43 / 36	37 / 28	32 / 23	28 / 18	39 - 10
	18/18	153 / 210	144 / 173	135 / 144	120 / 121	97 / 88	80 / 66	67 / 51	58 / 40	50 / 32	43 / 26	40 - 0
	16/16	236 / 275	217 / 227	192 / 189	171 / 159	139 / 116	115 / 87	96 / 67	82 / 53	71 / 42	62 / 34	40 - 0
Double	Contact New Millennium for multiple span information											
Triple												

- Notes:**
- Allowable Uniform Loads and maximum construction spans shown are based on the following criteria:
 - ANSI/SDI RD-2017 Standard for Steel Roof Deck
 - Minimum bearing lengths of 2" for end bearing and 4" for interior bearing. Check web crippling if minimums are not met.
 - Maximum construction spans shown include a check for deck self-weight plus a nominal 200 lbs. concentrated load supported by a one foot section of deck per SDI criteria which exceeds the IBC requirement of a 300 lbs. roof maintenance load distributed over an area of 2 1/2 feet by 2 1/2 feet per Section 1607.4 and Table 1607.1.
 - "Load that Produces L/240 Deflection" values shown in RED exceed the "Allowable Uniform Total Load". These loads may be used to determine the deck capacity under deflection limits more stringent than L/240. In no case shall the "Allowable Uniform Total Load" be exceeded.
 - See website at www.newmill.com for Factory Mutual approved deck types and maximum FM construction spans.

MAXIMUM CANTILEVER SPANS

Gage	F _y (ksi)	Back-Span Condition		
		Single	Double	Triple
20/20	40	6 - 11	Contact New Millennium for multiple span information	
18/18	40	8 - 5		
16/16	40	9 - 9		

- Notes:**
- Maximum cantilever spans shown are based on the following criteria:
 - ANSI/SDI RD-2017 Standard for Steel Roof Deck
 - Adjacent span assumed to be at least 3 times longer than the cantilever and no greater than the maximum design or construction spans shown in table above
 - Bearing width at perimeter support assumed to be 4" minimum
 - Design total uniform load of 45 psf in conjunction with a 100 lb. concentrated load.