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APPROVAL REPORT

Project No: 3053652
Supplements Project No.: N/A
Class: 4451
Product Name: B-36, DGB-36, B-36 Acustadek, DGB-36 Acustadek, BF-36, DGBF-36, BF-36 Acustadek, DGBF-36 Acustadek, N-32, DGN-32, N-32 Acustadek, DGN-32 Acustadek, NF-32 Cellular, DGNF-32 Cellular, NF-32 Cellular Acustadek, DGNF-32 Cellular Acustadek
Name of Listing Company: ASC Steel Deck
Address of Listing Company: 2110 Enterprise Blvd
 West Sacramento CA 95691
 United States
Customer ID: 1000002553
Customer website: www.ascprofiles.com

Prepared by

Reviewed by

Anthony Longabard

L. N. D'Angelo

Anthony Longabard
Advanced Engineer

Leonard D'Angelo
Technical Team Manager, Materials

Cynthia E. Frank

Cynthia E. Frank
AVP, Manager of Materials

3/31/2015

Date of Approval

1 INTRODUCTION

1.1 ASC Steel Deck requested re-examination of their B-36, DGB-36, B-36 Acustadek, DGB-36 Acustadek, BF-36, DGBF-36, BF-36 Acustadek, DGBF-36 Acustadek, N-32, DGN-32, N-32 Acustadek, DGN-32 Acustadek, NF-32 Cellular, DGNF-32 Cellular, NF-32 Cellular Acustadek, and DGNF-32 Cellular Acustadek steel roof decks to determine if they meet the Approval requirements of the Standard listed in Section 1.3.

1.2 This report may be freely reproduced only in its entirety and without modification.

1.3 Standard

Title	Number	Issue Date
Approval Standard for Profiled Steel Panels for Use as Decking in Class 1 Insulated Roof Construction	4451	6/2012

1.4 Listing

The products and assemblies will be listed in RoofNav, an on-line resource of FM Approvals. Formulations, drawings and specifications are on file at FM Approvals.

2 DESCRIPTION

2.1 All products are as described in RoofNav. Formulations, drawings and specifications are on file at FM Approvals.

3 EXAMINATIONS AND TESTS

3.1 This program consisted of a re-examination of Approved products according to revised Standard 4451, June 2012. Calculations were submitted for review in conjunction with data on file at FM Approvals under J.I. 3029064 and 3034376.

3.2 Several performance requirements and tests required by the Standard have been waived due to previous successful testing. See Table 1 below for details.

Table 1

FM Standard 4451 Performance Requirement	Submissions Required / Waivers
Allowable Live Load Deflection	Calculation included
Combustibility From Below the Roof Deck	Waived, see 3029064
Combination pull out / pull over resistance of fasteners (Testing)	Waived ¹
Pull over resistance of fasteners (Calculation)	Waived ¹
Combination pull off / pull over resistance of arc spot welds	Calculation included
Side lap fastener and side lap crimping and interlocking resistance	Waived, see 3029064 and 3034376
Fastener pull out resistance for above deck components	Not required

FM Standard 4451 Performance Requirement	Submissions Required / Waivers
Steel Deck Bending Stresses Under Service Wind Loads	Calculation included
Wind Uplift Ratings Greater Than Class 1-90 and all assemblies that utilize steel deck with a design thickness less than 0.0295 in. (0.75 mm)	Not requested
Foot Traffic Resistance of Insulation	Waived, see 3029064 and 3034376
Bearing Capacity of Insulation	Not required
Corrosion Resistance Test (Optional Test)	Not requested
Drivability Evaluation of Fasteners	Not required

¹ All fasteners are Approved by the OEM, no new fasteners included.

4 MARKING

- 4.1** The manufacturer shall mark each product and/or packaging with the manufacturer's name and product trade name. In addition, product and/or packaging must be marked with the Approval Mark of FM Approvals.
- 4.2** Markings denoting Approval by FM Approvals shall be applied by the manufacturer only within and on the premises of manufacturing locations under the FM Approvals Surveillance Audit program.
- 4.3** The manufacturer agrees that use of the FM Approvals name or Approval Mark is subject to the conditions and limitations of the Approval by FM Approvals. Such conditions and limitations must be included in all references to Approval by FM Approvals.

5 REMARKS

- 5.1** The securement of the roof system must be enhanced at the building corners and perimeter as outlined in FM Global Property Loss Prevention Data Sheet 1-29.
- 5.2** The roof cover must be installed using a roof perimeter flashing system Approved by FM Approvals. See RoofNav.

6 SURVEILLANCE AUDIT

The manufacturing facilities at the following locations shall be visited on a routine basis. The facility processes and quality control procedures in place have been determined to be satisfactory to manufacture products identical to that tested and Approved. An FM Approved Products/Specification Tested Revision Request Form shall be submitted to FM Approvals for requesting to manufacture products at any additional or alternate manufacturing facilities which are not listed below.

Audit Locations

2110 Enterprise Blvd
West Sacramento CA 95691

8432 Almeria Ave,
Fontana, California 92335

7 MANUFACTURER'S RESPONSIBILITIES

- 7.1** The manufacturer shall notify FM Approvals of any planned change in the Approved products, prior to general sale or distribution, using the FM Approved Products/Specification Tested Revision Request Form. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from FM Approvals.
- 7.2** To ensure compliance with procedures in the field, the manufacturer shall supply to the installer such necessary instruction or assistance required to produce the desired performance achieved in the tests.
- 7.3** In accordance with the Master Agreement, the manufacturer shall make full and immediate disclosure to FM Approvals of all information concerning any defect in, or potential hazard of, the product or service manufactured or provided by the Customer which is Approved by, or being examined by, FM Approvals. The manufacturer shall make all necessary arrangements for the investigation of complaints / anomalies applicable to this approval and shall keep records of all complaints / anomalies including actions taken.

8 DOCUMENTATION

- 8.1** No new documents have been created as all products are currently Approved.

9 CONCLUSIONS

- 9.1** Evaluation from this program indicates that the ASC Steel Deck B-36, DGB-36, B-36 Acustadek, DGB-36 Acustadek, BF-36, DGBF-36, BF-36 Acustadek, DGBF-36 Acustadek, N-32, DGN-32, N-32 Acustadek, DGN-32 Acustadek, NF-32 Cellular, DGNF-32 Cellular, NF-32 Cellular Acustadek, and DGNF-32 Cellular Acustadek steel roof decks with a minimum yield strength of 40 ksi (276 MPa) and a minimum tensile strength of 55 ksi (379 MPa) continue to meet the Approval requirements of FM Approval Standard 4451 for use as a component in Class 1-60, Class 1-75, and Class 1-90 wind uplift rated insulated steel deck roof constructions when installed as described in RoofNav, an on-line resource of FM Approvals.
- 9.2** ASC Steel Deck B-36, DGB-36, B-36 Acustadek, DGB-36 Acustadek, BF-36, DGBF-36, BF-36 Acustadek, DGBF-36 Acustadek, N-32, DGN-32, N-32 Acustadek, DGN-32 Acustadek, NF-32 Cellular, DGNF-32 Cellular, NF-32 Cellular Acustadek, or DGNF-32 Cellular Acustadek steel roof decks shall be secured to structural supports using fasteners FM Approved for securing steel roof deck to building structural supports. The side laps of interlocking steel decks are secured by button punch, spaced at maximum 36 in. (914 mm) on center. The side laps of all other steel decks are secured using fasteners FM Approved for securing steel deck side laps. Refer to RoofNav product listings for fastener details. The maximum allowable span is the least of the deck span shown in the tables below, maximum span for the selected FM Approved fastener to secure the steel roof deck, or the maximum span shown in the specified RoofNav assembly. An FM Approved fully or partially adhered roof covering or mechanically attached roof covering with fastener row spacing less than or equal to one-half of the deck span is applied per proprietary listings. Additional requirements, if applicable, are as stated in the following sections. Refer to the use of steel roof decks and fasteners

throughout listings for details and limitations. Meets maximum Class 1-90 or per proprietary listings.

9.2.1 ASC Steel Deck B-36, DGB-36, BF-36, DGBF-36, N-32, DGN-32, NF-32 Cellular, or DGNF-32 Cellular steel deck is installed and minimum 1.5 in. (38 mm) thick polyisocyanurate insulation boards are placed over the steel deck with board edges bearing along the centerline of the deck top flange.

9.2.1.1 ASC Steel Deck B-36, DGB-36, BF-36, or DGBF-36 is secured to structural supports spaced at the maximum center to center spans shown in the following tables.

ASC Steel Deck B-36/DGB-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	106	2692	106	2692	106	2692
18 (0.0478 [1.21])	96	2438	96	2438	96	2438
20 (0.0359 [0.91])	84	2134	84	2134	84	2134
22 (0.0299 [0.76])	76	1930	76	1930	76	1930
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	125	3175	125	3175	125	3175
18 (0.0478 [1.21])	113	2870	113	2870	113	2870
20 (0.0359 [0.91])	99	2515	99	2515	99	2515
22 (0.0299 [0.76])	90	2286	90	2286	90	2286
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	125	3175	125	3175	125	3175
18 (0.0478 [1.21])	113	2870	113	2870	113	2870
20 (0.0359 [0.91])	99	2515	99	2515	99	2515
22 (0.0299 [0.76])	90	2286	90	2286	90	2286

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	151	3835	151	3835	151	3835
16/18 (0.0598/0.0478 [1.52/1.21])	145	3683	145	3683	145	3683
16/20 (0.0598/0.0359 [1.52/0.91])	139	3531	139	3531	139	3531
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	178	4521	178	4521	178	4521
16/18 (0.0598/0.0478 [1.52/1.21])	171	4343	171	4343	171	4343
16/20 (0.0598/0.0359 [1.52/0.91])	164	4166	164	4166	164	4166
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	178	4521	178	4521	178	4521
16/18 (0.0598/0.0478 [1.52/1.21])	171	4343	171	4343	171	4343
16/20 (0.0598/0.0359 [1.52/0.91])	164	4166	164	4166	164	4166

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	140	3556	140	3556	140	3556
18/18 (0.0478/0.0478 [1.21/1.21])	135	3429	135	3429	135	3429
18/20 (0.0478/0.0359 [1.21/0.91])	129	3277	129	3277	129	3277
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	165	4191	165	4191	163	4140
18/18 (0.0478/0.0478 [1.21/1.21])	159	4039	159	4039	159	4039
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	152	3861	152	3861
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	165	4191	165	4191	165	4191
18/18 (0.0478/0.0478 [1.21/1.21])	159	4039	159	4039	159	4039
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	152	3861	152	3861

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	126	3200	126	3200	126	3200
20/18 (0.0359/0.0478 [0.91/1.21])	122	3099	122	3099	122	3099
20/20 (0.0359/0.0359 [0.91/0.91])	117	2972	117	2972	117	2972
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	147	3734	133	3378
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	143	3632	130	3302
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	138	3505	128	3251
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	148	3759	148	3759
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	143	3632	143	3632
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	138	3505	138	3505

9.2.1.2 ASC Steel Deck N-32, DGN-32, NF-32 Cellular, or DGNF-32 Cellular is secured to structural supports spaced at the maximum center to center spans shown in the following tables. All above deck component fasteners must be installed in the top flange of the steel roof deck. The insulation boards or thermal barrier, if applicable, installed directly over the steel deck must be cut to fit as needed to provide proper bearing on the top flange of the steel roof deck and secured to the deck as required per proprietary listings. This deck has an 8 in. (203 mm) rib module. FM Approved above deck systems are generally targeted to be used with 6 in. (152 mm) rib modules. Therefore, when utilizing an FM Approved mechanically fastened above deck system, select one with fastener spacing greater than 8 in. (203 mm) and reduce this fastener spacing to coincide with placement of the fastener in the deck top flanges (e.g., FM Approved 12 in. (305 mm) spacing is reduced to 8 in. (203 mm) or FM Approved 18 in. (457 mm) spacing is reduced to 16 in. (406 mm) spacing.)

ASC Steel Deck N-32/DGN-32 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	215	5461	215	5461	215	5461
18 (0.0478 [1.21])	193	4902	193	4902	193	4902
20 (0.0359 [0.91])	168	4267	168	4267	167	4242
22 (0.0299 [0.76])	154	3912	154	3912	148	3759

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	254	6452	246	6248	223	5664
18 (0.0478 [1.21])	228	5791	215	5461	195	4953
20 (0.0359 [0.91])	196	4978	174	4420	158	4013
22 (0.0299 [0.76])	172	4369	153	3886	139	3531

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	254	6452	254	6452	249	6325
18 (0.0478 [1.21])	228	5791	228	5791	218	5537
20 (0.0359 [0.91])	199	5055	195	4953	177	4496
22 (0.0299 [0.76])	182	4623	171	4343	155	3937

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	282	7163	282	7163	282	7163
16/18 (0.0598/0.0478 [1.52/1.21])	269	6833	269	6833	269	6833
16/20 (0.0598/0.0359 [1.52/0.91])	254	6452	254	6452	254	6452

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	333	8458	297	7544	266	6756
16/18 (0.0598/0.0478 [1.52/1.21])	317	8052	291	7391	262	6655
16/20 (0.0598/0.0359 [1.52/0.91])	299	7595	286	7264	257	6528

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	333	8458	332	8433	298	7569
16/18 (0.0598/0.0478 [1.52/1.21])	317	8052	317	8052	293	7442
16/20 (0.0598/0.0359 [1.52/0.91])	299	7595	299	7595	288	7315

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	260	6604	260	6604	253	6426
18/18 (0.0478/0.0478 [1.21/1.21])	248	6299	248	6299	247	6274
18/20 (0.0478/0.0359 [1.21/0.91])	233	5918	233	5918	233	5918

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	290	7366	253	6426	228	5791
18/18 (0.0478/0.0478 [1.21/1.21])	284	7214	249	6325	224	5690
18/20 (0.0478/0.0359 [1.21/0.91])	275	6985	244	6198	220	5588

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	307	7798	283	7188	255	6477
18/18 (0.0478/0.0478 [1.21/1.21])	293	7442	278	7061	251	6375
18/20 (0.0478/0.0359 [1.21/0.91])	275	6985	273	6934	246	6248

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	227	5766	227	5766	220	5588
20/18 (0.0359/0.0478 [0.91/1.21])	221	5613	221	5613	214	5436
20/20 (0.0359/0.0359 [0.91/0.91])	209	5309	209	5309	204	5182

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	237	6020	208	5283	187	4750
20/18 (0.0359/0.0478 [0.91/1.21])	228	5791	201	5105	181	4597
20/20 (0.0359/0.0359 [0.91/0.91])	226	5740	199	5055	180	4572

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	265	6731	233	5918	210	5334
20/18 (0.0359/0.0478 [0.91/1.21])	255	6477	224	5690	202	5131
20/20 (0.0359/0.0359 [0.91/0.91])	247	6274	223	5664	201	5105

9.2.2 ASC Steel Deck B-36 Acustadek, DGB-36 Acustadek, BF-36 Acustadek, DGBF-36 Acustadek, N-32 Acustadek, DGN-32 Acustadek, NF-32 Cellular Acustadek, or DGNF-32 Cellular Acustadek is installed and fiberglass batt insulation 2.5 in. (63.5 mm) wide by 1.5 in. (38 mm) high by 0.85 lb/ft³ (13.6 kg/m³) [-36 steel decks] or 1.625 in. (41 mm) wide by 3 in. (76 mm) by 0.85 lb/ft³ (13.6 kg/m³) [-32 steel decks] is placed in the deck ribs. When an asphaltic roof covering is to be installed, a minimum 0.5 in. (13 mm) thick

Dens Deck thermal barrier is required directly on the deck followed by a minimum 1.5 in. (38 mm) thick polyisocyanurate insulation boards.

9.2.2.1 ASC Steel Deck B-36 Acustadek, DGB-36 Acustadek, BF-36 Acustadek, or DGBF-36 Acustadek is secured to structural supports spaced at the maximum center to center spans shown in the following tables.

ASC Steel Deck B-36/DGB-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	103	2616	103	2616	103	2616
18 (0.0478 [1.21])	93	2362	93	2362	93	2362
20 (0.0359 [0.91])	82	2083	82	2083	82	2083
22 (0.0299 [0.76])	74	1880	74	1880	74	1880
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	122	3099	122	3099	122	3099
18 (0.0478 [1.21])	110	2794	110	2794	110	2794
20 (0.0359 [0.91])	96	2438	96	2438	96	2438
22 (0.0299 [0.76])	88	2235	88	2235	88	2235
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	122	3099	122	3099	122	3099
18 (0.0478 [1.21])	110	2794	110	2794	110	2794
20 (0.0359 [0.91])	96	2438	96	2438	96	2438
22 (0.0299 [0.76])	88	2235	88	2235	88	2235

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	147	3734	147	3734	147	3734
16/18 (0.0598/0.0478 [1.52/1.21])	142	3607	142	3607	142	3607
16/20 (0.0598/0.0359 [1.52/0.91])	136	3454	136	3454	136	3454
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	174	4420	174	4420	174	4420
16/18 (0.0598/0.0478 [1.52/1.21])	167	4242	167	4242	167	4242
16/20 (0.0598/0.0359 [1.52/0.91])	160	4064	160	4064	160	4064
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	174	4420	174	4420	174	4420
16/18 (0.0598/0.0478 [1.52/1.21])	167	4242	167	4242	167	4242
16/20 (0.0598/0.0359 [1.52/0.91])	160	4064	160	4064	160	4064

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	136	3454	136	3454	136	3454
18/18 (0.0478/0.0478 [1.21/1.21])	131	3327	131	3327	131	3327
18/20 (0.0478/0.0359 [1.21/0.91])	126	3200	126	3200	126	3200
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	160	4064	160	4064	159	4039
18/18 (0.0478/0.0478 [1.21/1.21])	155	3937	155	3937	155	3937
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	148	3759	148	3759
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	160	4064	160	4064	160	4064
18/18 (0.0478/0.0478 [1.21/1.21])	155	3937	155	3937	155	3937
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	148	3759	148	3759

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	123	3124	123	3124	123	3124
20/18 (0.0359/0.0478 [0.91/1.21])	119	3023	119	3023	119	3023
20/20 (0.0359/0.0359 [0.91/0.91])	114	2896	114	2896	114	2896
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	143	3632	129	3277
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	140	3556	127	3226
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	134	3404	125	3175
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	145	3683	145	3683
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	140	3556	140	3556
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	134	3404	134	3404

9.2.2.2 ASC Steel Deck N-32 Acustadek, DGN-32 Acustadek, NF-32 Cellular Acustadek, or DGNF-32 Cellular is secured to structural supports spaced at the maximum center to center spans shown in the following tables. All above deck component fasteners must be installed in the top flange of the steel roof deck. The insulation boards or thermal barrier, if applicable, installed directly over the steel deck must be cut to fit as needed to provide proper bearing on the top flange of the steel roof deck and secured to the deck as required per proprietary listings. This deck has an 8 in. (203 mm) rib module. FM Approved above deck systems are generally targeted to be used with 6 in. (152 mm) rib modules. Therefore, when utilizing an FM Approved mechanically fastened above deck system, select one with fastener spacing greater than 8 in. (203 mm) and reduce this fastener spacing to coincide with placement of the fastener in the deck top flanges (e.g., FM Approved 12 in. (305 mm) spacing is reduced to 8 in. (203 mm) or FM Approved 18 in. (457 mm) spacing is reduced to 16 in. (406 mm) spacing.)

ASC Steel Deck N-32/DGN-32 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	210	5334	210	5334	210	5334
18 (0.0478 [1.21])	189	4801	189	4801	189	4801
20 (0.0359 [0.91])	164	4166	164	4166	163	4140
22 (0.0299 [0.76])	151	3835	151	3835	145	3683

ASC Steel Deck N-32/DGN-32 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	247	6274	240	6096	217	5512
18 (0.0478 [1.21])	222	5639	209	5309	190	4826
20 (0.0359 [0.91])	191	4851	170	4318	154	3912
22 (0.0299 [0.76])	168	4267	149	3785	135	3429

ASC Steel Deck N-32/DGN-32 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	247	6274	247	6274	243	6172
18 (0.0478 [1.21])	222	5639	222	5639	212	5385
20 (0.0359 [0.91])	194	4928	190	4826	172	4369
22 (0.0299 [0.76])	177	4496	167	4242	151	3835

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	275	6985	275	6985	275	6985
16/18 (0.0598/0.0478 [1.52/1.21])	262	6655	262	6655	262	6655
16/20 (0.0598/0.0359 [1.52/0.91])	247	6274	247	6274	247	6274

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	324	8230	289	7341	260	6604
16/18 (0.0598/0.0478 [1.52/1.21])	309	7849	284	7214	255	6477
16/20 (0.0598/0.0359 [1.52/0.91])	292	7417	278	7061	251	6375

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	324	8230	323	8204	290	7366
16/18 (0.0598/0.0478 [1.52/1.21])	309	7849	309	7849	286	7264
16/20 (0.0598/0.0359 [1.52/0.91])	292	7417	292	7417	281	7137

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	254	6452	254	6452	247	6274
18/18 (0.0478/0.0478 [1.21/1.21])	242	6147	242	6147	240	6096
18/20 (0.0478/0.0359 [1.21/0.91])	227	5766	227	5766	227	5766
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	283	7188	247	6274	222	5639
18/18 (0.0478/0.0478 [1.21/1.21])	277	7036	243	6172	219	5563
18/20 (0.0478/0.0359 [1.21/0.91])	268	6807	238	6045	215	5461
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	299	7595	276	7010	248	6299
18/18 (0.0478/0.0478 [1.21/1.21])	285	7239	271	6883	244	6198
18/20 (0.0478/0.0359 [1.21/0.91])	268	6807	266	6756	240	6096

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	221	5613	221	5613	215	5461
20/18 (0.0359/0.0478 [0.91/1.21])	215	5461	215	5461	209	5309
20/20 (0.0359/0.0359 [0.91/0.91])	204	5182	204	5182	199	5055
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	231	5867	203	5156	183	4648
20/18 (0.0359/0.0478 [0.91/1.21])	222	5639	195	4953	176	4470
20/20 (0.0359/0.0359 [0.91/0.91])	220	5588	194	4928	176	4470
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	258	6553	227	5766	204	5182
20/18 (0.0359/0.0478 [0.91/1.21])	249	6325	219	5563	197	5004
20/20 (0.0359/0.0359 [0.91/0.91])	240	6096	217	5512	196	4978

9.3 ASC Steel Deck B-36, DGB-36, B-36 Acustadek, DGB-36 Acustadek, BF-36, DGBF-36, BF-36 Acustadek, DGBF-36 Acustadek, N-32, DGN-32, N-32 Acustadek, DGN-32 Acustadek, NF-32 Cellular, DGNF-32 Cellular, NF-32 Cellular Acustadek, or DGNF-32 Cellular Acustadek steel roof decks shall be secured to structural supports with puddle welds spaced at the maximum center to center span shown in the following tables. Puddle welds, sized and spaced as noted in the following tables, are fabricated using a minimum weld electrode of strength of 60 ksi (414 MPa) located at bottom ribs and at

supports where deck sides lap. The side laps of interlocking steel decks are secured by button punch, spaced at maximum 36 in. (914 mm) on center. The side laps of all other steel decks are secured using fasteners FM Approved for securing steel deck side laps. Refer to RoofNav product listings for fastener details. The maximum allowable span is the lesser of the deck span shown in the tables below or the maximum span shown in the specified RoofNav assembly. An FM Approved fully or partially adhered roof covering or mechanically attached roof covering with fastener row spacing less than or equal to one-half of the deck span is applied per proprietary listings. Additional requirements, if applicable, are as stated in the following sections. Refer to the use of steel roof decks and fasteners throughout listings for details and limitations. Meets maximum Class 1-90 or per proprietary listings.

9.3.1 ASC Steel Deck B-36, DGB-36, BF-36, DGBF-36, N-32, DGN-32, NF-32 Cellular, or DGNF-32 Cellular is installed and minimum 1.5 in. (38 mm) thick polyisocyanurate insulation boards are placed over the steel deck with board edges bearing along the centerline of the deck top flange

9.3.1.1 ASC Steel Deck B-36, DGB-36, BF-36, or DGBF-36 is secured to structural supports spaced at the maximum center to center spans shown in the following tables.

0.5 in. (13 mm) Diameter Puddle Welds, 6 in. (152 mm) on center

ASC Steel Deck B-36/DGB-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	106	2692	-	-	-	-
18 (0.0478 [1.21])	96	2438	-	-	-	-
20 (0.0359 [0.91])	84	2134	-	-	-	-
22 (0.0299 [0.76])	76	1930	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	125	3175	-	-	-	-
18 (0.0478 [1.21])	113	2870	-	-	-	-
20 (0.0359 [0.91])	99	2515	-	-	-	-
22 (0.0299 [0.76])	90	2286	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	125	3175	-	-	-	-
18 (0.0478 [1.21])	113	2870	-	-	-	-
20 (0.0359 [0.91])	99	2515	-	-	-	-
22 (0.0299 [0.76])	90	2286	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	151	3835	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	145	3683	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	139	3531	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	178	4521	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	171	4343	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	164	4166	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	178	4521	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	171	4343	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	164	4166	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	140	3556	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	135	3429	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	129	3277	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	165	4191	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	159	4039	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	165	4191	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	159	4039	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	126	3200	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	122	3099	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	117	2972	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	-	-	-	-

0.5 in. (13 mm) Diameter Puddle Welds, 12 in. (305 mm) on center

ASC Steel Deck B-36/DGB-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	106	2692	-	-	-	-
18 (0.0478 [1.21])	96	2438	-	-	-	-
20 (0.0359 [0.91])	84	2134	-	-	-	-
22 (0.0299 [0.76])	76	1930	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	99	2515	-	-	-	-
18 (0.0478 [1.21])	113	2870	-	-	-	-
20 (0.0359 [0.91])	95	2413	-	-	-	-
22 (0.0299 [0.76])	79	2007	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	123	3124	-	-	-	-
18 (0.0478 [1.21])	113	2870	-	-	-	-
20 (0.0359 [0.91])	99	2515	-	-	-	-
22 (0.0299 [0.76])	90	2286	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	151	3835	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	145	3683	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	139	3531	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	109	2769	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	131	3327	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	154	3912	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	137	3480	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	164	4166	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	164	4166	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	140	3556	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	135	3429	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	129	3277	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	130	3302	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	153	3886	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	163	4140	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	159	4039	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	126	3200	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	122	3099	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	117	2972	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	-	-	-	-

0.625 in. (16 mm) Diameter Puddle Welds, 6 in. (152 mm) on center

ASC Steel Deck B-36/DGB-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	106	2692	106	2692	106	2692
18 (0.0478 [1.21])	96	2438	96	2438	96	2438
20 (0.0359 [0.91])	84	2134	84	2134	84	2134
22 (0.0299 [0.76])	76	1930	76	1930	76	1930

ASC Steel Deck B-36/DGB-36 steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	125	3175	125	3175	125	3175
18 (0.0478 [1.21])	113	2870	113	2870	113	2870
20 (0.0359 [0.91])	99	2515	99	2515	99	2515
22 (0.0299 [0.76])	90	2286	90	2286	90	2286

ASC Steel Deck B-36/DGB-36 steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	125	3175	125	3175	125	3175
18 (0.0478 [1.21])	113	2870	113	2870	113	2870
20 (0.0359 [0.91])	99	2515	99	2515	99	2515
22 (0.0299 [0.76])	90	2286	90	2286	90	2286

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	151	3835	151	3835	151	3835
16/18 (0.0598/0.0478 [1.52/1.21])	145	3683	145	3683	145	3683
16/20 (0.0598/0.0359 [1.52/0.91])	139	3531	139	3531	139	3531
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	178	4521	178	4521	178	4521
16/18 (0.0598/0.0478 [1.52/1.21])	171	4343	171	4343	171	4343
16/20 (0.0598/0.0359 [1.52/0.91])	164	4166	164	4166	164	4166
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	178	4521	178	4521	178	4521
16/18 (0.0598/0.0478 [1.52/1.21])	171	4343	171	4343	171	4343
16/20 (0.0598/0.0359 [1.52/0.91])	164	4166	164	4166	164	4166

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	140	3556	140	3556	140	3556
18/18 (0.0478/0.0478 [1.21/1.21])	135	3429	135	3429	135	3429
18/20 (0.0478/0.0359 [1.21/0.91])	129	3277	129	3277	129	3277
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	165	4191	165	4191	163	4140
18/18 (0.0478/0.0478 [1.21/1.21])	159	4039	159	4039	159	4039
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	152	3861	152	3861
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	165	4191	165	4191	165	4191
18/18 (0.0478/0.0478 [1.21/1.21])	159	4039	159	4039	159	4039
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	152	3861	152	3861

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	126	3200	126	3200	126	3200
20/18 (0.0359/0.0478 [0.91/1.21])	122	3099	122	3099	122	3099
20/20 (0.0359/0.0359 [0.91/0.91])	117	2972	117	2972	117	2972
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	147	3734	133	3378
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	143	3632	130	3302
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	138	3505	128	3251
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	148	3759	148	3759
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	143	3632	143	3632
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	138	3505	138	3505

0.625 in. (16 mm) Diameter Puddle Welds, 12 in. (305 mm) on center

ASC Steel Deck B-36/DGB-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	106	2692	106	2692	106	2692
18 (0.0478 [1.21])	96	2438	96	2438	96	2438
20 (0.0359 [0.91])	84	2134	84	2134	84	2134
22 (0.0299 [0.76])	76	1930	76	1930	76	1930
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	125	3175	125	3175	125	3175
18 (0.0478 [1.21])	113	2870	113	2870	104	2642
20 (0.0359 [0.91])	99	2515	95	2413	78	1981
22 (0.0299 [0.76])	90	2286	79	2007	65	1651
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	125	3175	125	3175	125	3175
18 (0.0478 [1.21])	113	2870	113	2870	113	2870
20 (0.0359 [0.91])	99	2515	99	2515	98	2489
22 (0.0299 [0.76])	90	2286	90	2286	82	2083

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	151	3835	151	3835	151	3835
16/18 (0.0598/0.0478 [1.52/1.21])	145	3683	145	3683	145	3683
16/20 (0.0598/0.0359 [1.52/0.91])	139	3531	139	3531	139	3531
ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	178	4521	178	4521	154	3912
16/18 (0.0598/0.0478 [1.52/1.21])	171	4343	171	4343	171	4343
16/20 (0.0598/0.0359 [1.52/0.91])	164	4166	164	4166	164	4166
ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	178	4521	178	4521	178	4521
16/18 (0.0598/0.0478 [1.52/1.21])	171	4343	171	4343	171	4343
16/20 (0.0598/0.0359 [1.52/0.91])	164	4166	164	4166	164	4166

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	140	3556	140	3556	140	3556
18/18 (0.0478/0.0478 [1.21/1.21])	135	3429	135	3429	135	3429
18/20 (0.0478/0.0359 [1.21/0.91])	129	3277	129	3277	129	3277
ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	165	4191	165	4191	163	4140
18/18 (0.0478/0.0478 [1.21/1.21])	159	4039	159	4039	159	4039
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	152	3861	152	3861
ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	165	4191	165	4191	165	4191
18/18 (0.0478/0.0478 [1.21/1.21])	159	4039	159	4039	159	4039
18/20 (0.0478/0.0359 [1.21/0.91])	152	3861	152	3861	152	3861

ASC Steel Deck BF-36/DGBF-36 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	126	3200	126	3200	126	3200
20/18 (0.0359/0.0478 [0.91/1.21])	122	3099	122	3099	122	3099
20/20 (0.0359/0.0359 [0.91/0.91])	117	2972	117	2972	117	2972
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	147	3734	133	3378
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	143	3632	130	3302
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	138	3505	128	3251
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	148	3759	148	3759	148	3759
20/18 (0.0359/0.0478 [0.91/1.21])	143	3632	143	3632	143	3632
20/20 (0.0359/0.0359 [0.91/0.91])	138	3505	138	3505	138	3505

9.3.1.2 ASC Steel Deck N-32, DGN-32, NF-32 Cellular, or DGNF-32 Cellular is secured to structural supports spaced at the maximum center to center spans shown in the following tables. All above deck component fasteners must be installed in the top flange of the steel roof deck. The insulation boards or thermal barrier, if applicable, installed directly over the steel deck must be cut to fit as needed to provide proper bearing on the top flange of the steel roof deck and secured to the deck as required per proprietary listings. This deck has an 8 in. (203 mm) rib module. FM Approved above deck systems are generally targeted to be used with 6 in. (152 mm) rib modules. Therefore, when utilizing an FM Approved mechanically fastened above deck system, select one with fastener spacing greater than 8 in. (203 mm) and reduce this fastener spacing to coincide with placement of the fastener in the deck top flanges (e.g., FM Approved 12 in. (305 mm) spacing is reduced to 8 in. (203 mm) or FM Approved 18 in. (457 mm) spacing is reduced to 16 in. (406 mm) spacing.)

0.5 in. (13 mm) Diameter Puddle Welds, 8 in. (203 mm) on center

ASC Steel Deck N-32/DGN-32 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	215	5461	-	-	-	-
18 (0.0478 [1.21])	193	4902	-	-	-	-
20 (0.0359 [0.91])	168	4267	-	-	-	-
22 (0.0299 [0.76])	154	3912	-	-	-	-

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	150	3810	-	-	-	-
18 (0.0478 [1.21])	192	4877	-	-	-	-
20 (0.0359 [0.91])	144	3658	-	-	-	-
22 (0.0299 [0.76])	119	3023	-	-	-	-

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	188	4775	-	-	-	-
18 (0.0478 [1.21])	228	5791	-	-	-	-
20 (0.0359 [0.91])	180	4572	-	-	-	-
22 (0.0299 [0.76])	149	3785	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	282	7163	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	269	6833	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	254	6452	-	-	-	-

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	167	4242	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	200	5080	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	235	5969	-	-	-	-

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	209	5309	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	250	6350	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	294	7468	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	260	6604	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	248	6299	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	233	5918	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	198	5029	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	233	5918	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	270	6858	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	248	6299	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	291	7391	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	275	6985	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	227	5766	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	221	5613	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	209	5309	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	231	5867	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	228	5791	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	226	5740	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	265	6731	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	255	6477	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	247	6274	-	-	-	-

0.5 in. (13 mm) Diameter Puddle Welds, 16 in. (406 mm) on center

ASC Steel Deck N-32/DGN-32 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	188	4775	-	-	-	-
18 (0.0478 [1.21])	193	4902	-	-	-	-
20 (0.0359 [0.91])	168	4267	-	-	-	-
22 (0.0299 [0.76])	149	3785	-	-	-	-

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	75	1905	-	-	-	-
18 (0.0478 [1.21])	96	2438	-	-	-	-
20 (0.0359 [0.91])	72	1829	-	-	-	-
22 (0.0299 [0.76])	59	1499	-	-	-	-

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	94	2388	-	-	-	-
18 (0.0478 [1.21])	120	3048	-	-	-	-
20 (0.0359 [0.91])	90	2286	-	-	-	-
22 (0.0299 [0.76])	74	1880	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	209	5309	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	250	6350	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	254	6452	-	-	-	-

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	83	2108	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	100	2540	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	117	2972	-	-	-	-

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	104	2642	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	125	3175	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	147	3734	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	248	6299	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	248	6299	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	233	5918	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	99	2515	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	116	2946	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	135	3429	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	124	3150	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	145	3683	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	168	4267	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	227	5766	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	221	5613	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	209	5309	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	115	2921	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	133	3378	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	140	3556	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	144	3658	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	167	4242	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	176	4470	-	-	-	-

0.625 in. (16 mm) Diameter Puddle Welds, 8 in. (203 mm) on center

ASC Steel Deck N-32/DGN-32 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	215	5461	215	5461	215	5461
18 (0.0478 [1.21])	193	4902	193	4902	193	4902
20 (0.0359 [0.91])	168	4267	168	4267	167	4242
22 (0.0299 [0.76])	154	3912	154	3912	148	3759

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	254	6452	240	6096	196	4978
18 (0.0478 [1.21])	228	5791	191	4851	157	3988
20 (0.0359 [0.91])	183	4648	144	3658	118	2997
22 (0.0299 [0.76])	151	3835	119	3023	98	2489

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	254	6452	254	6452	245	6223
18 (0.0478 [1.21])	228	5791	228	5791	197	5004
20 (0.0359 [0.91])	199	5055	180	4572	148	3759
22 (0.0299 [0.76])	182	4623	149	3785	123	3124

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	282	7163	282	7163	282	7163
16/18 (0.0598/0.0478 [1.52/1.21])	269	6833	269	6833	269	6833
16/20 (0.0598/0.0359 [1.52/0.91])	254	6452	254	6452	254	6452

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	333	8458	291	7391	234	5944
16/18 (0.0598/0.0478 [1.52/1.21])	317	8052	291	7391	262	6655
16/20 (0.0598/0.0359 [1.52/0.91])	299	7595	286	7264	257	6528

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	333	8458	332	8433	293	7442
16/18 (0.0598/0.0478 [1.52/1.21])	317	8052	317	8052	293	7442
16/20 (0.0598/0.0359 [1.52/0.91])	299	7595	299	7595	288	7315

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	260	6604	260	6604	253	6426
18/18 (0.0478/0.0478 [1.21/1.21])	248	6299	248	6299	247	6274
18/20 (0.0478/0.0359 [1.21/0.91])	233	5918	233	5918	233	5918
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	290	7366	253	6426	228	5791
18/18 (0.0478/0.0478 [1.21/1.21])	284	7214	249	6325	224	5690
18/20 (0.0478/0.0359 [1.21/0.91])	275	6985	244	6198	220	5588
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	307	7798	283	7188	255	6477
18/18 (0.0478/0.0478 [1.21/1.21])	293	7442	278	7061	251	6375
18/20 (0.0478/0.0359 [1.21/0.91])	275	6985	273	6934	246	6248

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	227	5766	227	5766	220	5588
20/18 (0.0359/0.0478 [0.91/1.21])	221	5613	221	5613	214	5436
20/20 (0.0359/0.0359 [0.91/0.91])	209	5309	209	5309	204	5182
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	237	6020	208	5283	187	4750
20/18 (0.0359/0.0478 [0.91/1.21])	228	5791	201	5105	181	4597
20/20 (0.0359/0.0359 [0.91/0.91])	226	5740	199	5055	180	4572
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	265	6731	233	5918	210	5334
20/18 (0.0359/0.0478 [0.91/1.21])	255	6477	224	5690	202	5131
20/20 (0.0359/0.0359 [0.91/0.91])	247	6274	223	5664	201	5105

0.625 in. (16 mm) Diameter Puddle Welds, 16 in. (406 mm) on center

ASC Steel Deck N-32/DGN-32 steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	215	5461	215	5461	215	5461
18 (0.0478 [1.21])	193	4902	193	4902	193	4902
20 (0.0359 [0.91])	168	4267	168	4267	148	3759
22 (0.0299 [0.76])	154	3912	149	3785	123	3124

ASC Steel Deck N-32/DGN-32 steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	154	3912	120	3048	98	2489
18 (0.0478 [1.21])	122	3099	95	2413	78	1981
20 (0.0359 [0.91])	91	2311	71	1803	59	1499
22 (0.0299 [0.76])	75	1905	59	1499	49	1245

ASC Steel Deck N-32/DGN-32 steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	193	4902	150	3810	122	3099
18 (0.0478 [1.21])	153	3886	119	3023	98	2489
20 (0.0359 [0.91])	114	2896	90	2286	74	1880
22 (0.0299 [0.76])	94	2388	74	1880	61	1549

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	282	7163	282	7163	282	7163
16/18 (0.0598/0.0478 [1.52/1.21])	269	6833	269	6833	269	6833
16/20 (0.0598/0.0359 [1.52/0.91])	254	6452	254	6452	254	6452

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	192	4877	145	3683	117	2972
16/18 (0.0598/0.0478 [1.52/1.21])	215	5461	163	4140	132	3353
16/20 (0.0598/0.0359 [1.52/0.91])	239	6071	183	4648	148	3759

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	240	6096	182	4623	146	3708
16/18 (0.0598/0.0478 [1.52/1.21])	268	6807	204	5182	165	4191
16/20 (0.0598/0.0359 [1.52/0.91])	298	7569	228	5791	185	4699

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	260	6604	260	6604	253	6426
18/18 (0.0478/0.0478 [1.21/1.21])	248	6299	248	6299	247	6274
18/20 (0.0478/0.0359 [1.21/0.91])	233	5918	233	5918	233	5918
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	212	5385	162	4115	131	3327
18/18 (0.0478/0.0478 [1.21/1.21])	236	5994	181	4597	147	3734
18/20 (0.0478/0.0359 [1.21/0.91])	214	5436	165	4191	134	3404
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	266	6756	203	5156	164	4166
18/18 (0.0478/0.0478 [1.21/1.21])	293	7442	227	5766	184	4674
18/20 (0.0478/0.0359 [1.21/0.91])	268	6807	206	5232	168	4267

ASC Steel Deck NF-32/DGNF-32 Cellular steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	227	5766	227	5766	220	5588
20/18 (0.0359/0.0478 [0.91/1.21])	221	5613	221	5613	214	5436
20/20 (0.0359/0.0359 [0.91/0.91])	209	5309	209	5309	204	5182
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	234	5944	180	4572	146	3708
20/18 (0.0359/0.0478 [0.91/1.21])	212	5385	164	4166	133	3378
20/20 (0.0359/0.0359 [0.91/0.91])	182	4623	141	3581	115	2921
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	265	6731	225	5715	183	4648
20/18 (0.0359/0.0478 [0.91/1.21])	255	6477	205	5207	167	4242
20/20 (0.0359/0.0359 [0.91/0.91])	228	5791	177	4496	144	3658

9.3.2 ASC Steel Deck B-36 Acustadek, DGB-36 Acustadek, BF-36 Acustadek, DGBF-36 Acustadek, N-32 Acustadek, DGN-32 Acustadek, NF-32 Cellular Acustadek, or DGNF-32 Cellular is installed and fiberglass batt insulation 2.5 in. (63.5 mm) wide by 1.5 in. (38 mm) high by 0.85 lb/ft³ (13.6 kg/m³) [-36 steel decks] or 1.625 in. (41 mm) wide by 3 in. (76 mm) by 0.85 lb/ft³ (13.6 kg/m³) [-32 steel decks] is placed in the deck ribs. When an asphaltic roof covering is to be installed, a minimum 0.5 in. (13 mm) thick Dens Deck

thermal barrier is required directly on the deck followed by a minimum 1.5 in. (38 mm) thick polyisocyanurate insulation boards

9.3.2.1 ASC Steel Deck B-36 Acustadek, DGB-36 Acustadek, BF-36 Acustadek, or DGBF-36 Acustadek is secured to structural supports spaced at the maximum center to center spans shown in the following tables.

0.5 in. (13 mm) Diameter Puddle Welds, 6 in. (152 mm) on center

ASC Steel Deck B-36/DGB-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	103	2616	-	-	-	-
18 (0.0478 [1.21])	93	2362	-	-	-	-
20 (0.0359 [0.91])	82	2083	-	-	-	-
22 (0.0299 [0.76])	74	1880	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	122	3099	-	-	-	-
18 (0.0478 [1.21])	110	2794	-	-	-	-
20 (0.0359 [0.91])	96	2438	-	-	-	-
22 (0.0299 [0.76])	88	2235	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	122	3099	-	-	-	-
18 (0.0478 [1.21])	110	2794	-	-	-	-
20 (0.0359 [0.91])	96	2438	-	-	-	-
22 (0.0299 [0.76])	88	2235	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	147	3734	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	142	3607	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	136	3454	-	-	-	-
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	174	4420	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	167	4242	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	160	4064	-	-	-	-
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	174	4420	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	167	4242	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	160	4064	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	136	3454	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	131	3327	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	126	3200	-	-	-	-
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	160	4064	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	155	3937	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	-	-	-	-
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	160	4064	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	155	3937	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	123	3124	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	119	3023	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	114	2896	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	-	-	-	-

0.5 in. (13 mm) Diameter Puddle Welds, 12 in. (305 mm) on center

ASC Steel Deck B-36/DGB-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	103	2616	-	-	-	-
18 (0.0478 [1.21])	93	2362	-	-	-	-
20 (0.0359 [0.91])	82	2083	-	-	-	-
22 (0.0299 [0.76])	74	1880	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	99	2515	-	-	-	-
18 (0.0478 [1.21])	110	2794	-	-	-	-
20 (0.0359 [0.91])	95	2413	-	-	-	-
22 (0.0299 [0.76])	79	2007	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	122	3099	-	-	-	-
18 (0.0478 [1.21])	110	2794	-	-	-	-
20 (0.0359 [0.91])	96	2438	-	-	-	-
22 (0.0299 [0.76])	88	2235	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	147	3734	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	142	3607	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	136	3454	-	-	-	-
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	109	2769	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	131	3327	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	154	3912	-	-	-	-
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	137	3480	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	164	4166	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	160	4064	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	136	3454	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	131	3327	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	126	3200	-	-	-	-
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	130	3302	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	153	3886	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	-	-	-	-
ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	160	4064	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	155	3937	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	123	3124	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	119	3023	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	114	2896	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	-	-	-	-

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	-	-	-	-

0.625 in. (16 mm) Diameter Puddle Welds, 6 in. (152 mm) on center

ASC Steel Deck B-36/DGB-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	103	2616	103	2616	103	2616
18 (0.0478 [1.21])	93	2362	93	2362	93	2362
20 (0.0359 [0.91])	82	2083	82	2083	82	2083
22 (0.0299 [0.76])	74	1880	74	1880	74	1880

ASC Steel Deck B-36/DGB-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	122	3099	122	3099	122	3099
18 (0.0478 [1.21])	110	2794	110	2794	110	2794
20 (0.0359 [0.91])	96	2438	96	2438	96	2438
22 (0.0299 [0.76])	88	2235	88	2235	88	2235

ASC Steel Deck B-36/DGB-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	122	3099	122	3099	122	3099
18 (0.0478 [1.21])	110	2794	110	2794	110	2794
20 (0.0359 [0.91])	96	2438	96	2438	96	2438
22 (0.0299 [0.76])	88	2235	88	2235	88	2235

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	147	3734	147	3734	147	3734
16/18 (0.0598/0.0478 [1.52/1.21])	142	3607	142	3607	142	3607
16/20 (0.0598/0.0359 [1.52/0.91])	136	3454	136	3454	136	3454
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	174	4420	174	4420	174	4420
16/18 (0.0598/0.0478 [1.52/1.21])	167	4242	167	4242	167	4242
16/20 (0.0598/0.0359 [1.52/0.91])	160	4064	160	4064	160	4064
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	174	4420	174	4420	174	4420
16/18 (0.0598/0.0478 [1.52/1.21])	167	4242	167	4242	167	4242
16/20 (0.0598/0.0359 [1.52/0.91])	160	4064	160	4064	160	4064

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	136	3454	136	3454	136	3454
18/18 (0.0478/0.0478 [1.21/1.21])	131	3327	131	3327	131	3327
18/20 (0.0478/0.0359 [1.21/0.91])	126	3200	126	3200	126	3200
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	160	4064	160	4064	159	4039
18/18 (0.0478/0.0478 [1.21/1.21])	155	3937	155	3937	155	3937
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	148	3759	148	3759
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	160	4064	160	4064	160	4064
18/18 (0.0478/0.0478 [1.21/1.21])	155	3937	155	3937	155	3937
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	148	3759	148	3759

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	123	3124	123	3124	123	3124
20/18 (0.0359/0.0478 [0.91/1.21])	119	3023	119	3023	119	3023
20/20 (0.0359/0.0359 [0.91/0.91])	114	2896	114	2896	114	2896

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	143	3632	129	3277
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	140	3556	127	3226
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	134	3404	125	3175

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	145	3683	145	3683
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	140	3556	140	3556
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	134	3404	134	3404

0.625 in. (16 mm) Diameter Puddle Welds, 12 in. (305 mm) on center

ASC Steel Deck B-36/DGB-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	103	2616	103	2616	103	2616
18 (0.0478 [1.21])	93	2362	93	2362	93	2362
20 (0.0359 [0.91])	82	2083	82	2083	82	2083
22 (0.0299 [0.76])	74	1880	74	1880	74	1880

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	122	3099	122	3099	122	3099
18 (0.0478 [1.21])	110	2794	110	2794	104	2642
20 (0.0359 [0.91])	96	2438	95	2413	78	1981
22 (0.0299 [0.76])	88	2235	79	2007	65	1651

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	122	3099	122	3099	122	3099
18 (0.0478 [1.21])	110	2794	110	2794	110	2794
20 (0.0359 [0.91])	96	2438	96	2438	96	2438
22 (0.0299 [0.76])	88	2235	88	2235	82	2083

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	147	3734	147	3734	147	3734
16/18 (0.0598/0.0478 [1.52/1.21])	142	3607	142	3607	142	3607
16/20 (0.0598/0.0359 [1.52/0.91])	136	3454	136	3454	136	3454
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	174	4420	174	4420	154	3912
16/18 (0.0598/0.0478 [1.52/1.21])	167	4242	167	4242	167	4242
16/20 (0.0598/0.0359 [1.52/0.91])	160	4064	160	4064	160	4064
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	174	4420	174	4420	174	4420
16/18 (0.0598/0.0478 [1.52/1.21])	167	4242	167	4242	167	4242
16/20 (0.0598/0.0359 [1.52/0.91])	160	4064	160	4064	160	4064

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	136	3454	136	3454	136	3454
18/18 (0.0478/0.0478 [1.21/1.21])	131	3327	131	3327	131	3327
18/20 (0.0478/0.0359 [1.21/0.91])	126	3200	126	3200	126	3200
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	160	4064	160	4064	159	4039
18/18 (0.0478/0.0478 [1.21/1.21])	155	3937	155	3937	155	3937
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	148	3759	148	3759
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	160	4064	160	4064	160	4064
18/18 (0.0478/0.0478 [1.21/1.21])	155	3937	155	3937	155	3937
18/20 (0.0478/0.0359 [1.21/0.91])	148	3759	148	3759	148	3759

ASC Steel Deck BF-36/DGBF-36 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	123	3124	123	3124	123	3124
20/18 (0.0359/0.0478 [0.91/1.21])	119	3023	119	3023	119	3023
20/20 (0.0359/0.0359 [0.91/0.91])	114	2896	114	2896	114	2896
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	143	3632	129	3277
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	140	3556	127	3226
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	134	3404	125	3175
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	145	3683	145	3683	145	3683
20/18 (0.0359/0.0478 [0.91/1.21])	140	3556	140	3556	140	3556
20/20 (0.0359/0.0359 [0.91/0.91])	134	3404	134	3404	134	3404

9.3.2.2 ASC Steel Deck N-32 Acustadek, DGN-32 Acustadek, NF-32 Cellular Acustadek, or DGNF-32 Cellular is secured to structural supports spaced at the maximum center to center spans shown in the following tables. All above deck component fasteners must be installed in the top flange of the steel roof deck. The insulation boards or thermal barrier, if applicable, installed directly over the steel deck must be cut to fit as needed to provide proper bearing on the top flange of the steel roof deck and secured to the deck as required per proprietary listings. This deck has an 8 in. (203 mm) rib module. FM Approved above deck systems are generally targeted to be used with 6 in. (152 mm) rib modules. Therefore, when utilizing an FM Approved mechanically fastened above deck system, select one with fastener spacing greater than 8 in. (203 mm) and reduce this fastener spacing to coincide with placement of the fastener in the deck top flanges (e.g., FM Approved 12 in. (305 mm) spacing is reduced to 8 in. (203 mm) or FM Approved 18 in. (457 mm) spacing is reduced to 16 in. (406 mm) spacing.)

0.5 in. (13 mm) Diameter Puddle Welds, 8 in. (203 mm) on center

ASC Steel Deck N-32/DGN-32 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	210	5334	-	-	-	-
18 (0.0478 [1.21])	189	4801	-	-	-	-
20 (0.0359 [0.91])	164	4166	-	-	-	-
22 (0.0299 [0.76])	151	3835	-	-	-	-

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	150	3810	-	-	-	-
18 (0.0478 [1.21])	192	4877	-	-	-	-
20 (0.0359 [0.91])	144	3658	-	-	-	-
22 (0.0299 [0.76])	119	3023	-	-	-	-

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	188	4775	-	-	-	-
18 (0.0478 [1.21])	222	5639	-	-	-	-
20 (0.0359 [0.91])	180	4572	-	-	-	-
22 (0.0299 [0.76])	149	3785	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	275	6985	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	262	6655	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	247	6274	-	-	-	-

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	167	4242	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	200	5080	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	235	5969	-	-	-	-

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	209	5309	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	250	6350	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	292	7417	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	254	6452	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	242	6147	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	227	5766	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	198	5029	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	233	5918	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	268	6807	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	248	6299	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	285	7239	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	268	6807	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	221	5613	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	215	5461	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	204	5182	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	231	5867	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	222	5639	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	220	5588	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	258	6553	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	249	6325	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	240	6096	-	-	-	-

0.5 in. (13 mm) Diameter Puddle Welds, 16 in. (406 mm) on center

ASC Steel Deck N-32/DGN-32 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	188	4775	-	-	-	-
18 (0.0478 [1.21])	189	4801	-	-	-	-
20 (0.0359 [0.91])	164	4166	-	-	-	-
22 (0.0299 [0.76])	149	3785	-	-	-	-

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	75	1905	-	-	-	-
18 (0.0478 [1.21])	96	2438	-	-	-	-
20 (0.0359 [0.91])	72	1829	-	-	-	-
22 (0.0299 [0.76])	59	1499	-	-	-	-

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	94	2388	-	-	-	-
18 (0.0478 [1.21])	120	3048	-	-	-	-
20 (0.0359 [0.91])	90	2286	-	-	-	-
22 (0.0299 [0.76])	74	1880	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	209	5309	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	250	6350	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	247	6274	-	-	-	-

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	83	2108	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	100	2540	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	117	2972	-	-	-	-

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	104	2642	-	-	-	-
16/18 (0.0598/0.0478 [1.52/1.21])	125	3175	-	-	-	-
16/20 (0.0598/0.0359 [1.52/0.91])	147	3734	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	248	6299	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	242	6147	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	227	5766	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	99	2515	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	116	2946	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	135	3429	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	124	3150	-	-	-	-
18/18 (0.0478/0.0478 [1.21/1.21])	145	3683	-	-	-	-
18/20 (0.0478/0.0359 [1.21/0.91])	168	4267	-	-	-	-

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	221	5613	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	215	5461	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	204	5182	-	-	-	-
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	115	2921	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	133	3378	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	141	3581	-	-	-	-
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	144	3658	-	-	-	-
20/18 (0.0359/0.0478 [0.91/1.21])	167	4242	-	-	-	-
20/20 (0.0359/0.0359 [0.91/0.91])	176	4470	-	-	-	-

0.625 in. (16 mm) Diameter Puddle Welds, 8 in. (203 mm) on center

ASC Steel Deck N-32/DGN-32 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	210	5334	210	5334	210	5334
18 (0.0478 [1.21])	189	4801	189	4801	189	4801
20 (0.0359 [0.91])	164	4166	164	4166	163	4140
22 (0.0299 [0.76])	151	3835	151	3835	145	3683

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	247	6274	240	6096	196	4978
18 (0.0478 [1.21])	222	5639	191	4851	157	3988
20 (0.0359 [0.91])	183	4648	144	3658	118	2997
22 (0.0299 [0.76])	151	3835	119	3023	98	2489

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	247	6274	247	6274	243	6172
18 (0.0478 [1.21])	222	5639	222	5639	197	5004
20 (0.0359 [0.91])	194	4928	180	4572	148	3759
22 (0.0299 [0.76])	177	4496	149	3785	123	3124

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	275	6985	275	6985	275	6985
16/18 (0.0598/0.0478 [1.52/1.21])	262	6655	262	6655	262	6655
16/20 (0.0598/0.0359 [1.52/0.91])	247	6274	247	6274	247	6274

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	324	8230	289	7341	234	5944
16/18 (0.0598/0.0478 [1.52/1.21])	309	7849	284	7214	255	6477
16/20 (0.0598/0.0359 [1.52/0.91])	292	7417	279	7087	251	6375

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	324	8230	323	8204	290	7366
16/18 (0.0598/0.0478 [1.52/1.21])	309	7849	309	7849	286	7264
16/20 (0.0598/0.0359 [1.52/0.91])	292	7417	292	7417	281	7137

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	254	6452	254	6452	247	6274
18/18 (0.0478/0.0478 [1.21/1.21])	242	6147	242	6147	240	6096
18/20 (0.0478/0.0359 [1.21/0.91])	227	5766	227	5766	227	5766
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	283	7188	247	6274	222	5639
18/18 (0.0478/0.0478 [1.21/1.21])	277	7036	243	6172	219	5563
18/20 (0.0478/0.0359 [1.21/0.91])	268	6807	238	6045	215	5461
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	299	7595	276	7010	248	6299
18/18 (0.0478/0.0478 [1.21/1.21])	285	7239	271	6883	244	6198
18/20 (0.0478/0.0359 [1.21/0.91])	268	6807	266	6756	240	6096

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	221	5613	221	5613	215	5461
20/18 (0.0359/0.0478 [0.91/1.21])	215	5461	215	5461	209	5309
20/20 (0.0359/0.0359 [0.91/0.91])	204	5182	204	5182	199	5055
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	231	5867	203	5156	183	4648
20/18 (0.0359/0.0478 [0.91/1.21])	222	5639	195	4953	176	4470
20/20 (0.0359/0.0359 [0.91/0.91])	220	5588	194	4928	176	4470
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	258	6553	227	5766	204	5182
20/18 (0.0359/0.0478 [0.91/1.21])	249	6325	219	5563	197	5004
20/20 (0.0359/0.0359 [0.91/0.91])	240	6096	217	5512	196	4978

0.625 in. (16 mm) Diameter Puddle Welds, 16 in. (406 mm) on center

ASC Steel Deck N-32/DGN-32 Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	210	5334	210	5334	210	5334
18 (0.0478 [1.21])	189	4801	189	4801	189	4801
20 (0.0359 [0.91])	164	4166	164	4166	148	3759
22 (0.0299 [0.76])	151	3835	149	3785	123	3124

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	154	3912	120	3048	98	2489
18 (0.0478 [1.21])	122	3099	95	2413	78	1981
20 (0.0359 [0.91])	91	2311	72	1829	59	1499
22 (0.0299 [0.76])	75	1905	59	1499	49	1245

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16 (0.0598 [1.52])	193	4902	150	3810	122	3099
18 (0.0478 [1.21])	153	3886	119	3023	98	2489
20 (0.0359 [0.91])	114	2896	90	2286	74	1880
22 (0.0299 [0.76])	94	2388	74	1880	61	1549

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	275	6985	275	6985	275	6985
16/18 (0.0598/0.0478 [1.52/1.21])	262	6655	262	6655	262	6655
16/20 (0.0598/0.0359 [1.52/0.91])	247	6274	247	6274	247	6274

Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	192	4877	145	3683	117	2972
16/18 (0.0598/0.0478 [1.52/1.21])	215	5461	163	4140	132	3353
16/20 (0.0598/0.0359 [1.52/0.91])	239	6071	183	4648	148	3759

Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
16/16 (0.0598/0.0598 [1.52/1.52])	240	6096	182	4623	146	3708
16/18 (0.0598/0.0478 [1.52/1.21])	268	6807	204	5182	165	4191
16/20 (0.0598/0.0359 [1.52/0.91])	292	7417	228	5791	185	4699

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	254	6452	254	6452	247	6274
18/18 (0.0478/0.0478 [1.21/1.21])	242	6147	242	6147	240	6096
18/20 (0.0478/0.0359 [1.21/0.91])	227	5766	227	5766	227	5766
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	212	5385	162	4115	131	3327
18/18 (0.0478/0.0478 [1.21/1.21])	236	5994	181	4597	147	3734
18/20 (0.0478/0.0359 [1.21/0.91])	214	5436	165	4191	134	3404
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
18/16 (0.0478/0.0598 [1.21/1.52])	266	6756	203	5156	164	4166
18/18 (0.0478/0.0478 [1.21/1.21])	285	7239	227	5766	184	4674
18/20 (0.0478/0.0359 [1.21/0.91])	268	6807	206	5232	168	4267

ASC Steel Deck NF-32/DGNF-32 Cellular Acustadek steel deck						
Deck Design Thickness	Wind Rating - One Span					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	221	5613	221	5613	215	5461
20/18 (0.0359/0.0478 [0.91/1.21])	215	5461	215	5461	209	5309
20/20 (0.0359/0.0359 [0.91/0.91])	204	5182	204	5182	199	5055
Deck Design Thickness	Wind Rating - Two Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	231	5867	180	4572	146	3708
20/18 (0.0359/0.0478 [0.91/1.21])	212	5385	164	4166	133	3378
20/20 (0.0359/0.0359 [0.91/0.91])	182	4623	141	3581	115	2921
Deck Design Thickness	Wind Rating - Three or More Spans					
	1-60		1-75		1-90	
MSG (in. [mm])	in.	mm	in.	mm	in.	mm
20/16 (0.0359/0.0598 [0.91/1.52])	258	6553	225	5715	183	4648
20/18 (0.0359/0.0478 [0.91/1.21])	249	6325	205	5207	167	4242
20/20 (0.0359/0.0359 [0.91/0.91])	228	5791	177	4496	144	3658

9.4 Tests show that the tested roof constructions in and of themselves would not create a need for automatic sprinklers.

9.5 Since a duly signed Master Agreement is on file for this customer, Approval is effective as of the date of this report.

- 9.6** Continued Approval will depend upon satisfactory field experience and periodic Facilities and Procedures Audits.

PROJECT DATA RECORD: 3053652

ATTACHMENTS: N/A

ORIGINAL TEST DATA See PDRs for projects in Table 1