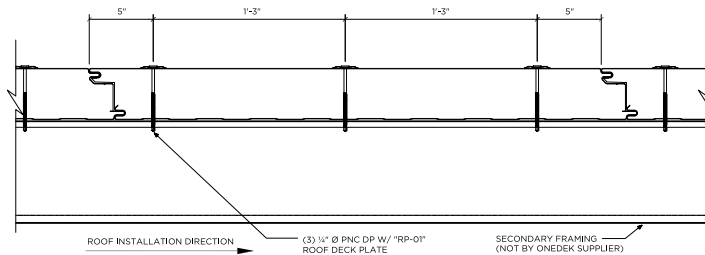


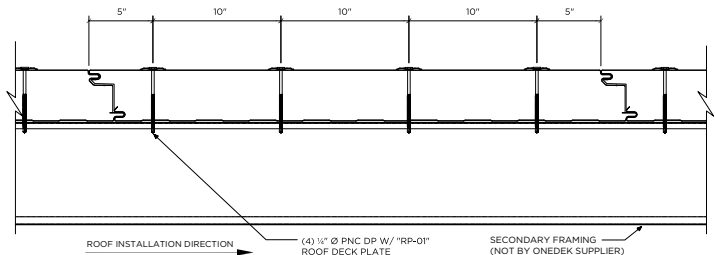
Wind Uplift Loads for OneDek RD1/RD1-M Insulated Roof Deck Pancake Fastening (PSF)

Panel Thickness	Panel Weight (PSF)	Design Criteria	Panel Span (ft)											
			2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
2"	2.22	Panel/Deflection Limit	88	72	61	53	46	41	37	33	30	27	24	22
2.5"	2.34	Panel/Deflection Limit	109	89	76	65	57	51	46	42	38	35	32	30
3"	2.41	Panel/Deflection Limit	129	106	89	77	68	60	54	49	45	42	39	36
4"	2.62	Panel/Deflection Limit	165	135	115	99	87	78	70	64	58	54	50	46
5"	2.82	Panel/Deflection Limit	196	161	137	118	104	93	84	76	70	64	60	55
6"	2.98	Panel/Deflection Limit	223	184	156	135	119	106	95	87	79	73	68	63
8"	3.31	Panel/Deflection Limit	262	216	184	159	140	125	113	103	94	87	80	75

RD1 Non-diaphragm (3) Through Fastener System (Section View)



RD1 Non-diaphragm (4) Through Fastener System (Section View)



Fastening Pattern	Support/Purlin Type	Panel Span (ft)											
		2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
(3) Fasteners Across Panel Width	16-gauge min	71	59	50	43	38	34	31	28	26	24	22	21
(4) Fasteners Across Panel Width	16-gauge min	95	79	67	58	51	46	41	38	35	32	30	28

Notes:

1. Spans shown are based on transverse load testing per ASTM-E72 and strength of fastening patterns.
2. Load span table is based on Allowable Stress Design (ASD).
3. If design for diaphragm resistance is required see OneDek RD1/RD1-M Diaphragm Table.
4. Spans calculated with **26 gauge exterior** and interior facings.
5. The lowest allowable load between panel design and connection strength must be used to determine maximum span.
6. Fastening calculated with ¼-14 Tek 3 for 16 gauge, 14 gauge, and 12 gauge purlins.
7. Deflection Limit = L/240.
8. Safety factor = 2.5 for buckling, 3.0 for shear, 3.0 for fastening. See note #2 (ASD only).
9. White single-ply roofing membrane or single skin roof panels must be installed for weatherproofing.
10. Thermal effect due to temperature differentials have not been considered.
11. Structural capacity of purlins have not been considered.
12. Consult your AWIP representative for snow load design.
13. Consult your AWIP representative for project specific requirements.



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