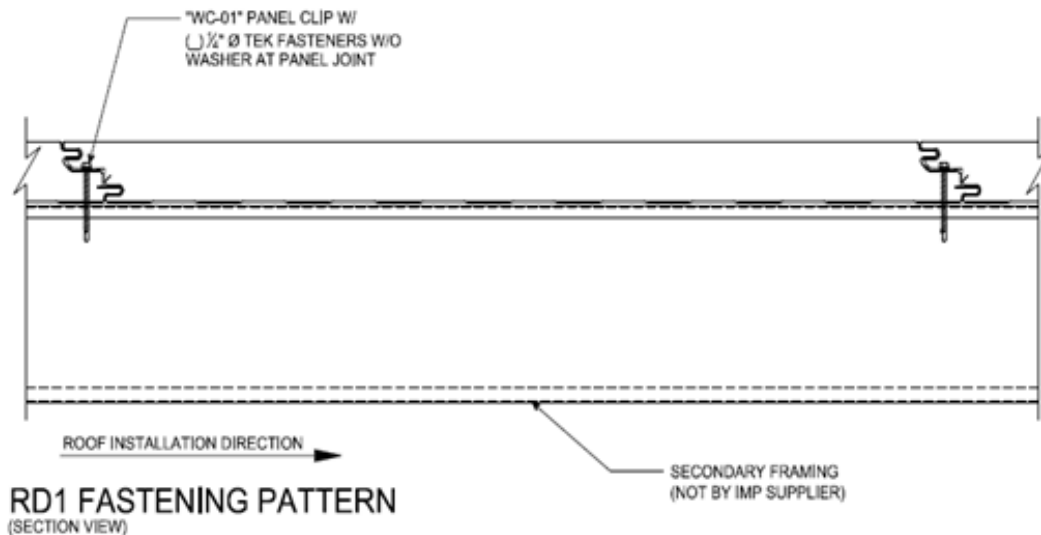


## Wind Uplift Loads for OneDek® RD1/RD1-M Insulated Roof Deck Hidden Clip Fastening (psf)

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	162	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

Fastening Pattern	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) Fasteners per clip	16 gauge	60	50	42	37	32	29	26	24	22	20	19	18
	14 gauge	80	66	56	49	43	38	35	32	29	27	25	23
	12 gauge or 3/16"	85	70	59	52	46	41	37	34	31	29	27	25
(3) Fasteners per clip	16 gauge	85	70	59	52	46	41	37	34	31	29	27	25
	14 gauge	85	70	59	52	46	41	37	34	31	29	27	25



## 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. There is no design for diaphragm resistance using hidden clip fastening. 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 and ¼-20 Tek 5 for 3/16" thick 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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