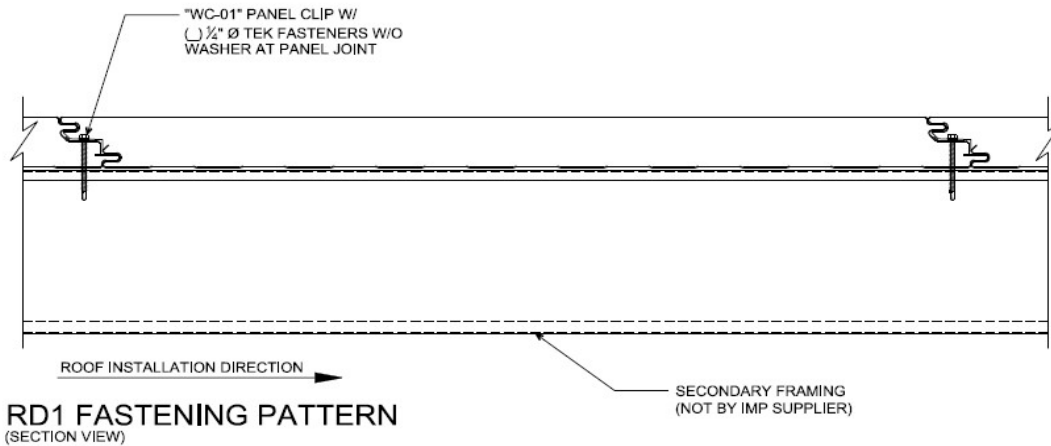




### Wind Uplift Loads for OneDek™ RD1 - Hidden Clip Fastening (PSF)

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	132	108	90	77	66	58	51	45	40	36	32	29
2.5"	2.34	Panel/Deflection Limit	168	137	115	99	86	75	66	59	53	48	43	39
3"	2.41	Panel/Deflection Limit	204	167	141	121	105	92	82	73	66	60	54	49
4"	2.62	Panel/Deflection Limit	246	202	171	147	129	114	102	92	83	76	69	64
5"	2.82	Panel/Deflection Limit	309	255	216	187	164	146	131	118	107	98	90	83
6"	2.98	Panel/Deflection Limit	373	308	262	227	199	177	159	144	131	120	110	102

Fastening Pattern	Connection Strength	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 ga purlins	70	58	50	44	39	35	32	29	27	25	23	22
	12 ga purlins	120	100	86	75	66	60	54	50	46	43	40	37
	3/16" thick purlins	<b>125</b>	<b>105</b>	<b>90</b>	<b>78</b>	<b>70</b>	<b>63</b>	<b>57</b>	<b>52</b>	<b>48</b>	<b>45</b>	<b>42</b>	<b>39</b>
(3) Fasteners per clip	16 ga purlins	105	88	75	66	59	53	48	44	40	38	35	33
	12 ga purlins	<b>125</b>	<b>105</b>	<b>90</b>	<b>78</b>	<b>70</b>	<b>63</b>	<b>57</b>	<b>52</b>	<b>48</b>	<b>45</b>	<b>42</b>	<b>39</b>



**Notes:**

1. Spans shown are based on transverse load testing per ASTM-E72 and strength of fastening patterns.
2. There is no design for diaphragm resistance using hidden clip fastening. See OneDek™ RD1 Diaphragm Table.
3. Spans calculated with 26 gauge exterior and interior facings.
4. The lowest allowable load between panel design and connection strength must be used to determine maximum span.
5. Fastening calculated with 1/4-14 Tek 3 for 16 gauge and 12 gauge purlins and 1/4-20 Tek 5 for 3/16" thick purlins.
6. Deflection Limit: L/240
7. Safety factor = 2.5 for buckling, 3.0 for shear, 3.0 for fastening. See Note #2 (ASD only)
8. White single-ply roofing membrane or single skin roof panels must be installed for weatherproofing.
9. Thermal effect due to temperature differentials have not been considered.
10. Structural capacity of purlins have not been considered.
11. Consult your AWIP representative for snow load design.
12. Consult your AWIP representative for project specific requirements.