Artspan Inc. 175 George Avenue Winkler, MB R6W 3M5
p. (204) 331-1800 e. office@artspaninc.com w. artspaninc.com

Maximum Specified Uniform Distributed Load (psf)

Simple Span - ft	Flat Side up (Rib Side Down)															
Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Bending / Shear	1000	667	500	400	300	220	169	133	108	89	75	64	55	48	42	37
Deflection (L/180)			400	225	149	110	90	85	80	73	65	58	50	42	23	13

Simple Span - ft	Flat Side Down (Rib Side Up)															
Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Bending / Shear	1000	667	500	400	333	253	193	153	124	102	86	73	63	55	48	43
Deflection (L/180)			400	225	150	110	90	85	80	73	65	58	50	42	23	13

Two Equal Spans - ft	Flat/Rib Side Either Way (Up or Down)																	
Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Bending / Shear	800	533	400	320	267	220	169	133	108	89	75	64	55	48	42	37	33	30
Deflection (L/180)					359	265	217	205	193	175	157	139	120	101	55	31	20	13

Three Equal Spans - ft	Flat/Rib Side Either Way (Up or Down)																	
Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Bending / Shear	833	556	417	333	278	238	208	167	135	112	94	80	69	60	53	47	42	37
Deflection (L/180)				425	281	208	170	160	151	137	123	109	94	79	43	25	16	10

Notes

1) Tables are based on allowable stress design.
2) Determination of the specified wind and snow load is contained in the 2010/2015 editions of the National Building Code of Canada (NBCC). Importance factors are applied to both strength (ULS) and servacibility/deflection (SLS) as well as importance category of the application. For snow - specified load = LL+0.8333DL. For wind dead load would not be considered.
3) Tables based on 5" Artspan panel with 24 ga light profile exterior and 24 ga fluted interior panel (Min Grade 50 ksi)
4) Structural capacity of the purlins/girts are not considered and must be examined independently
5) Fasteners are not considered and must be examined independently

PROVINCE OF MANITOBA
F. J. DENISET
REGISTERED PROFESSIONAL ENGINEER

05.21.2020

ARTspan
Artspan Inc. 175 George Avenue Winkler, MB R6W 3M5
p. (204) 331-1800 e. office@artspaninc.com w. artspaninc.com

Maximum Uniform Distributed Snow Load (psf)

Factored for Bending / Shear — Snow Load Factor for Bending/Shear= 1.5
Servicability for Deflection Is=0.9 — Servicability Importance Factor for Deflection Is= 0.9

Simple Span - ft — **Flat Side up (Rib Side Down)**

Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Bending / Shear (Factored)	1500	1000	750	600	450	331	253	200	162	134	113	96	83	72	63	56
Servicability / Deflection (L/180)			444	250	166	122	100	94	89	81	72	64	56	47	26	14

Simple Span - ft — **Flat Side Down (Rib Side Up)**

Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Bending / Shear (Factored)	1500	1000	750	600	500	379	290	229	186	153	129	110	95	83	72	65
Servicability / Deflection (L/180)			444	250	167	122	100	94	89	81	72	64	56	47	26	14

Two Equal Spans - ft — **Flat/Rib Side Either Way (Up or Down)**

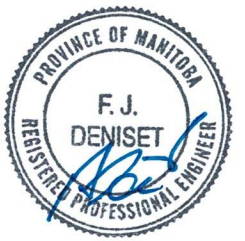
Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Bending / Shear (Factored)	1200	800	600	480	400	331	253	200	162	134	113	96	83	72	63	56	50	45
Servicability / Deflection (L/180)					399	295	241	228	214	194	174	154	134	112	62	35	23	14

Three Equal Spans - ft — **Flat/Rib Side Either Way (Up or Down)**

Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Bending / Shear (Factored)	1250	833	625	500	417	357	313	250	203	167	141	120	103	90	79	70	63	56
Servicability / Deflection (L/180)				472	312	231	189	178	168	152	136	121	105	88	48	27	18	11

Notes

1) Tables for bending/shear are based on Limit States Design (LSD) with a Snow Load factor of 1.5
2) Tables for snow load servicability / deflection are based on L/180 with an importance factor Is=0.9
3) Tables based on 5" Artspan panel with 24 ga light profile exterior and 24 ga fluted interior panel (Min Grade 50 ksi)
4) Structural capacity of the purlins/girts are not considered and must be examined independently
5) Fasteners are not considered and must be examined independently



05.21.2020

ARTspan
Artspan Inc. 175 George Avenue Winkler, MB R6W 3M5
p. (204) 331-1800 e. office@artspaninc.com w. artspaninc.com

Maximum Uniform Distributed Wind Load (psf)

Factored for Bending / Shear
Servicability for Deflection Is=0.75

Wind Load Factor for Bending/Shear= 1.4
Servicability Importance Factor for Deflection Is= 0.75

Simple Span - ft — **Flat Side up (Rib Side Down)**

Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Bending / Shear (Factored)	1400	933	700	560	420	309	236	187	151	125	105	89	77	67	59	52
Servicability / Deflection (L/180)			533	300	199	147	120	113	107	97	87	77	67	56	31	17

Simple Span - ft — **Flat Side Down (Rib Side Up)**

Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Bending / Shear (Factored)	1400	933	700	560	467	354	271	214	173	143	120	103	88	77	67	60
Servicability / Deflection (L/180)			533	300	200	147	120	113	107	97	87	77	67	56	31	17

Two Equal Spans - ft — **Flat/Rib Side Either Way (Up or Down)**

Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Bending / Shear (Factored)	1120	747	560	448	373	309	236	187	151	125	105	89	77	67	59	52	46	42
Servicability / Deflection (L/180)					479	353	289	273	257	233	209	185	161	135	74	42	27	17

Three Equal Spans - ft — **Flat/Rib Side Either Way (Up or Down)**

Span - ft	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Bending / Shear (Factored)	1167	778	583	467	389	333	292	233	189	156	131	112	96	84	74	65	58	52
Servicability / Deflection (L/180)				566	375	277	226	214	201	182	164	145	126	106	58	33	21	13

Notes

1) Tables for bending/shear are based on Limit States Design (LSD) with a Wind Load factor of 1.4
2) Tables for wind load servicability / deflection are based on L/180 with an importance factor Is=0.75
3) Tables based on 5" Artspan panel with 24 ga light profile exterior and 24 ga fluted interior panel (Min Grade 50 ksi)
4) Structural capacity of the purlins/girts are not considered and must be examined independently
5) Fasteners are not considered and must be examined independently

05.21.2020