

Galvatherm Shadow Line

THERMAL PROPERTIES					Maximum Allowable Span (FT)						
Thickness (in)	Span Condition	Insulation Factors		Panel Weight	Load Design (PSF)						
		R $\frac{\text{hrFT}^2\text{°F}}{\text{BTU}}$	U $\frac{\text{BTU}}{\text{hrFT}^2\text{°F}}$	(PSF) 26/26 ga							
					20	25	30	35	40	45	50
2"	Simple & Double Triple	16.26	0.062	2.20	10'-0"	8'-11"	8'-2"	7'-4"	6'-6"	5'-10"	5'-3"
					11'-7"	10'-2"	8'-7"	7'-5"	6'-6"	5'-10"	5'-3"
2.5"	Simple & Double Triple	20.33	0.049	2.30	11'-2"	10'-0"	9'-1"	8'-6"	7'-10"	7'-3"	6'-7"
					12'-11"	11'-8"	10'-7"	9'-3"	8'-1"	7'-3"	6'-7"
3"	Simple & Double Triple	24.39	0.041	2.40	12'-3"	10'-11"	10'-0"	9'-3"	8'-8"	8'-2"	7'-8"
					14'-2"	12'-9"	11'-9"	11'-0"	9'-9"	8'-8"	7'-10"
4"	Simple & Double Triple	32.52	0.031	2.60	14'-2"	12'-8"	11'-7"	10'-8"	10'-0"	9'-5"	8'-11"
					15'-0"	14'-9"	13'-7"	12'-8"	11'-11"	11'-4"	10'-6"
5"	Simple & Double Triple	40.65	0.025	2.80	15'-0"	14'-2"	12'-11"	11'-11"	11'-2"	10'-7"	10'-0"
							15'-0"	14'-2"	13'-4"	12'-8"	12'-1"
6"	Simple & Double Triple	48.78	0.021	2.99		15'-0"	14'-2"	13'-1"	12'-3"	11'-7"	10'-11"
							15'-0"	14'-7"	13'-10"	13'-3"	

Notes:

1. The maximum spans were based from the loads obtained of laboratory tests according ASTM E-72, which are governed by stress and deflections. Is important to mention that thermal effect due to temperature differential was no considered, however must to be considering in each case.
2. Allowable Deflection $L/180$
3. The manufacturing of facers are galvanized steel per ASTM A-653 grade 37 ($F_y = 37$ ksi)
4. Elasticity Modulus of Steel 29,000 ksi
5. In order to know the allowable load governed by connection, please contact to technical department