



TONGUE & GROOVE PANELS - ALUMINUM

Deflection Criteria:		L/180	
Material Type:		3003-H14 Aluminum	
Material Thickness:		0.032 in	
Moment of Inertia (Minor Axis)		0.088 in ⁴	
Section Modulus (Minor Axis)		0.144 in ³	
Modulus of Elasticity		10,100 ksi	
LOADS (PSF)	SINGLE SPAN	DOUBLE SPAN	TRIPLE SPAN
10	3' - 9"	3' - 9"	4' - 3"
15	3' - 1"	3' - 1"	3' - 5"
20	2' - 8"	2' - 8"	3' - 0"
25	2' - 4"	2' - 4"	2' - 8"
30	2' - 2"	2' - 2"	2' - 5"
35	2' - 0"	2' - 0"	2' - 3"
40	1' - 10"	1' - 10"	2' - 1"
45	1' - 9"	1' - 9"	2' - 0"
50	1' - 8"	1' - 8"	1' - 10"
55	1' - 7"	1' - 7"	1' - 9"
60	1' - 6"	1' - 6"	1' - 8"
65	1' - 5"	1' - 5"	1' - 8"
70	1' - 5"	1' - 5"	1' - 7"

Deflection Criteria:		L/240	
Material Type:		3003-H14 Aluminum	
Material Thickness:		0.032 in	
Moment of Inertia (Minor Axis)		0.088 in ⁴	
Section Modulus (Minor Axis)		0.144 in ³	
Modulus of Elasticity		10,100 ksi	
LOADS (PSF)	SINGLE SPAN	DOUBLE SPAN	TRIPLE SPAN
10	3' - 9"	3' - 9"	4' - 3"
15	3' - 1"	3' - 1"	3' - 5"
20	2' - 8"	2' - 8"	3' - 0"
25	2' - 4"	2' - 4"	2' - 8"
30	2' - 2"	2' - 2"	2' - 5"
35	2' - 0"	2' - 0"	2' - 3"
40	1' - 10"	1' - 10"	2' - 1"
45	1' - 9"	1' - 9"	2' - 0"
50	1' - 8"	1' - 8"	1' - 10"
55	1' - 7"	1' - 7"	1' - 9"
60	1' - 6"	1' - 6"	1' - 8"
65	1' - 5"	1' - 5"	1' - 8"
70	1' - 5"	1' - 5"	1' - 7"

Deflection Criteria:		L/180	
Material Type:		3003-H14 Aluminum	
Material Thickness:		0.04 in	
Moment of Inertia (Minor Axis)		0.110 in ⁴	
Section Modulus (Minor Axis)		0.179 in ³	
Modulus of Elasticity		10,100 ksi	
LOADS (PSF)	SINGLE SPAN	DOUBLE SPAN	TRIPLE SPAN
10	4' - 9"	4' - 9"	5' - 3"
15	3' - 10"	3' - 10"	4' - 4"
20	3' - 4"	3' - 4"	3' - 9"
25	3' - 0"	3' - 0"	3' - 4"
30	2' - 8"	2' - 8"	3' - 0"
35	2' - 6"	2' - 6"	2' - 10"
40	2' - 4"	2' - 4"	2' - 7"
45	2' - 2"	2' - 2"	2' - 6"
50	2' - 1"	2' - 1"	2' - 4"
55	2' - 0"	2' - 0"	2' - 3"
60	1' - 11"	1' - 11"	2' - 2"
65	1' - 10"	1' - 10"	2' - 1"
70	1' - 9"	1' - 9"	2' - 0"

Deflection Criteria:		L/240	
Material Type:		3003-H14 Aluminum	
Material Thickness:		0.04 in	
Moment of Inertia (Minor Axis)		0.110 in ⁴	
Section Modulus (Minor Axis)		0.179 in ³	
Modulus of Elasticity		10,100 ksi	
LOADS (PSF)	SINGLE SPAN	DOUBLE SPAN	TRIPLE SPAN
10	4' - 9"	4' - 9"	5' - 3"
15	3' - 10"	3' - 10"	4' - 4"
20	3' - 4"	3' - 4"	3' - 9"
25	3' - 0"	3' - 0"	3' - 4"
30	2' - 8"	2' - 8"	3' - 0"
35	2' - 6"	2' - 6"	2' - 10"
40	2' - 4"	2' - 4"	2' - 7"
45	2' - 2"	2' - 2"	2' - 6"
50	2' - 1"	2' - 1"	2' - 4"
55	2' - 0"	2' - 0"	2' - 3"
60	1' - 11"	1' - 11"	2' - 2"
65	1' - 10"	1' - 10"	2' - 1"
70	1' - 9"	1' - 9"	2' - 0"

Notes:

- 1.) *Indicates maximum span controlled by deflection.
- 2.) All loads are applied perpendicular to surface of panel.
- 3.) Spans indicated are based off service level loading (ASD).
- 4.) Actual conditions on projects may affect spans indicated above. Those qualified to assess project specific conditions shall use the information listed above to assess these affects.
- 5.) Spans above are based upon section and material properties of the indicated panel. Other factors such as fastener loading may affect project-specific spans.