



TONGUE & GROOVE PANELS - ALUMINUM

Deflection Crite	aria:	L/180		
Material Type:				
Material Type: Material Thickness:		3003-H14 Aluminum		
		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	SINGLE SPAN	DOUBLE SPAN	TRIPLE SPAN	
(PSF)				
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"	
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Deflection Crite	eria:	L/180		
Material Type:		3003-H14 Aluminum		
Material Thick	ness:	0.04 in		
Moment of Ine	rtia (Minor Axis)	0.110 in ⁴		
	us (Minor Axis)	0.179 in ³		
Modulus of Ela		10,100 ksi		
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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"	
	2.0			
			2' - 2"	
60	1' - 11"	1' - 11"	2' - 2" 2' - 1"	
			2' - 2" 2' - 1" 2' - 0"	

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	
	1		
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"
	41 51	11 61	1' - 8"
65	1' - 5"	1' - 5"	
65 70	1' - 5" 1' - 5"	1 - 5"	1' - 7"
70	1' - 5"	1' - 5"	
70 Deflection Crit	1' - 5" teria:	1' - 5" L/240	
70 Deflection Crit Material Type	1' - 5" ceria:	1' - 5" L/240 3003-H14 Aluminum	
70 Deflection Crit Material Type Material Thick	1' - 5" reria: :: ness:	1' - 5" L/240 3003-H14 Aluminum 0.04 in	
70 Deflection Crit Material Type Material Thick Moment of Ind	1' - 5" eeria: ness: ertia (Minor Axis)	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴	
70 Deflection Crit Material Type Material Thick Moment of In Section Modul	1' - 5" eeria: mess: ertia (Minor Axis) us (Minor Axis)	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³	
70 Deflection Crit Material Type Material Thick Moment of Ind	1' - 5" eeria: mess: ertia (Minor Axis) us (Minor Axis)	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴	
70 Deflection Crit Material Type Material Thick Moment of In Section Modul	1' - 5" eeria: ertia (Minor Axis) us (Minor Axis) asticity	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi	1' - 7"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela	1' - 5" eeria: eeria: ertia (Minor Axis) us (Minor Axis) asticity SINGLE SPAN	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³	
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela LOADS	1' - 5" eeria: ertia (Minor Axis) us (Minor Axis) asticity	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi	1' - 7"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela LOADS (PSF)	1' - 5" eeria: eeria: ertia (Minor Axis) us (Minor Axis) asticity SINGLE SPAN	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN	1' - 7" TRIPLE SPAN
70 Deflection Crit Material Type: Material Thick Moment of Ind Section Modul Modulus of Ela LOADS (PSF) 10	1' - 5" erria: erria: erria (Minor Axis) us (Minor Axis) asticity SINGLE SPAN 4' - 9"	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4" 3' - 9"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Section Modul Modulus of Ela LOADS (PSF) 10 15	1' - 5" eeria: eeria: eertia (Minor Axis) us (Minor Axis) asticity SINGLE SPAN 4' - 9" 3' - 10"	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9" 3' - 10"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela LOADS (PSF) 10 15 20	1' - 5" eeria: eeria: eertia (Minor Axis) us (Minor Axis) asticity SINGLE SPAN 4' - 9" 3' - 10" 3' - 4"	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9" 3' - 10" 3' - 4" 3' - 0" 2' - 8"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4" 3' - 9" 3' - 4" 3' - 0"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela LOADS (PSF) 10 15 20 25	1' - 5" teria: teria	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9" 3' - 10" 3' - 4" 3' - 0" 2' - 8" 2' - 6"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4" 3' - 9" 3' - 4" 3' - 0" 2' - 10"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela LOADS (PSF) 10 15 20 25 30	1' - 5" teria: teria	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9" 3' - 10" 3' - 4" 3' - 0" 2' - 8"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4" 3' - 9" 3' - 4" 3' - 0"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela LOADS (PSF) 10 15 20 25 30 35	1' - 5" teria: teria	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9" 3' - 10" 3' - 4" 3' - 0" 2' - 8" 2' - 6"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4" 3' - 9" 3' - 4" 3' - 0" 2' - 10"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela LOADS (PSF) 10 15 20 25 30 35 40	1' - 5" teria: teria	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9" 3' - 10" 3' - 4" 3' - 0" 2' - 8" 2' - 6" 2' - 4"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4" 3' - 9" 3' - 4" 3' - 0" 2' - 10" 2' - 7"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela LOADS (PSF) 10 15 20 25 30 35 40 45	1' - 5" teria: teria	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9" 3' - 10" 3' - 4" 3' - 0" 2' - 8" 2' - 6" 2' - 4" 2' - 2"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4" 3' - 9" 3' - 4" 3' - 0" 2' - 10" 2' - 7" 2' - 6"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Ela LOADS (PSF) 10 15 20 25 30 35 40 45 50	1' - 5" teria: teria	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9" 3' - 10" 3' - 4" 3' - 0" 2' - 8" 2' - 6" 2' - 4" 2' - 2" 2' - 1"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4" 3' - 9" 3' - 4" 3' - 0" 2' - 10" 2' - 7" 2' - 6" 2' - 4"
70 Deflection Crit Material Type Material Thick Moment of Ind Section Modul Modulus of Els LOADS (PSF) 10 15 20 25 30 35 40 45 50 55	1' - 5" teria: teria	1' - 5" L/240 3003-H14 Aluminum 0.04 in 0.110 in ⁴ 0.179 in ³ 10,100 ksi DOUBLE SPAN 4' - 9" 3' - 10" 3' - 4" 3' - 0" 2' - 8" 2' - 6" 2' - 4" 2' - 2" 2' - 1" 2' - 0"	1' - 7" TRIPLE SPAN 5' - 3" 4' - 4" 3' - 9" 3' - 4" 3' - 0" 2' - 10" 2' - 7" 2' - 6" 2' - 4" 2' - 3"

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.