

fortis

Aluminum Decking

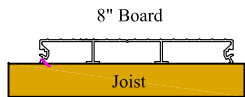
wahoo decks
 1604 Athens Hwy
 Gainesville, GA
 30507
 TOLL FREE
 877-270-9387
 FAX
 678-343-2916

www.wahodecks.com

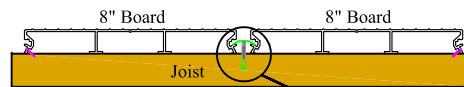
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Date:
 1.8.2014

Step 1:
 Secure board with fastener

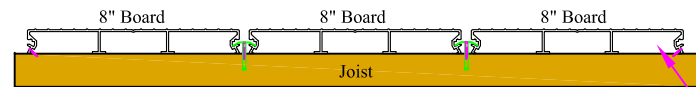


Step 2:
 Secure boards with hidden fastener

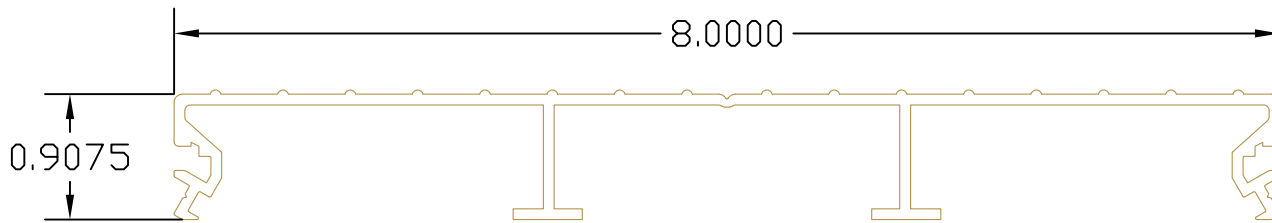


Hidden Fastener System
 Attach Bracket over Joist and secure bracket to grooves

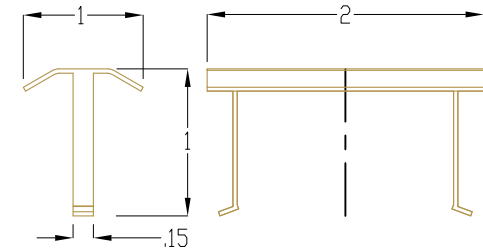
Step 3:
 Cover Edges with Trim



Trim Conceals End View



8" FORTIS BOARD



FORTIS CLIP

REFERENCE CHART FOR MULTI SPAN

JOIST SPACING	Total Load TL lbs/ft ²		
	1/180	1/240	1/360
1.0	22,222.22	16,666.67	11,111.11
1.5	6,584.36	4,938.27	3,292.18
2.0	2,777.78	2,083.33	1,388.89
2.5	1,422.22	1,066.67	711.11
3.0	823.05	617.28	411.52
3.5	518.30	388.73	259.15
4.0	347.22	260.42	173.61
4.5	243.87	182.90	121.93
5.0	177.78	133.33	88.89
5.5	133.57	100.18	66.78
6.0	102.88	77.16	51.44
6.5	80.92	60.69	40.46

General Data and Assumptions

E 10,000,000 lbs/in² - Modulus of Elasticity 6063 Aluminum
 rho(density) 0.097543662 lbs/in³ - standard aluminum density
 I(Mom of Inerti) 0.1 in⁴ - 8"deck board
 v or v(max) in - calculated deflection or mac deflection
 l in - joist length

Total Load in lbs/ft² will be converted to lbs/ft for Beam Loading formulas
 Since deck is 8" wide, loading of lbs/ft² will be multiplied by .6667

Example: 50lbs/ft² = 33.33 lbs/ft

TL = Total Load lbs/ft²

q= uniform load lbs/in = TL Load lbs/ft² * 8 / 12

Beam Formulas taken from Mechanics of Materials - Build - 2nd edition page 647

Description
8" FORTIS BOARD AND CLIP FASTENER
 Job Name
 XXXXX

Scale:
 Custom

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