



OC™ LUMBER FOR DECK FRAMING DROP BEAM SPAN PERFORMANCE



OC™ Lumber for deck framing is a rotproof, rustproof composite alternative to wood and steel. It is designed to install like the lumber you use every day, and deliver performance that enables safe, resilient, and durable structures.

Drop Beam Span Performance

Standards and testing methods

ASTM D7147

Standard Specification for Testing and Establishing Allowable Loads of Joist Hangers

ASTM D6109

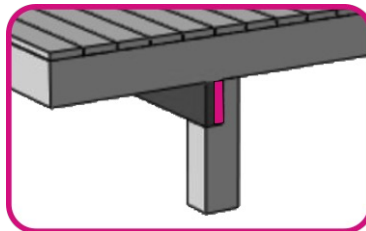
Flexural Properties of Unreinforced and Reinforced Plastic Lumber and Related Products

ASTM E84

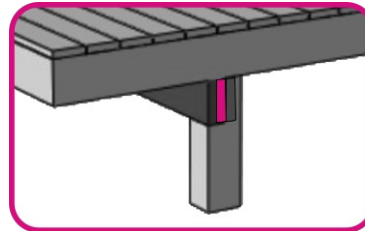
Surface Burning Characteristics of Building Materials

DECK	DROP BEAM CONFIGURATION		BEAM SPAN (ft)	MAX BEAM DEFLECTION (in)	REFERENCE LIMIT (L/360)
BOARD DIMENSION	BEAM	# OF PILES			
2"x 8"	2"x8" joist	2	16	0.625	0.53
	2"x8" joist	2	12	0.260	0.4
	2"x8" joist	2	10	0.167	0.33
	2"x8" joist	3	10	0.140	0.33
	2"x8" joist	3	16	0.543	0.53
	laminated 2"x6"	5	10	0.161	0.33
	laminated 2"x6"	5	16	0.492	0.53
2"x 10"	2"x10" joist	2	10	0.114	0.33
	2"x10" joist	3	10	0.097	0.33

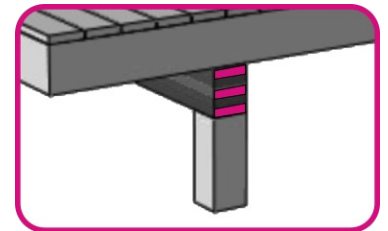
**2 Boards
Drop Beam**



**3 Boards
Drop Beam**



**5 Laminated Boards
Drop Beam**



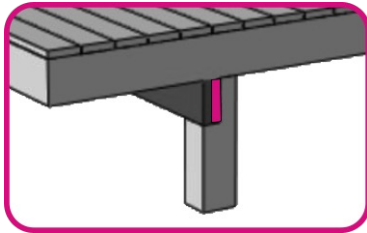
Performance data collected and published by DRJ Engineering, April 2023

Finite Element Analysis via Computational Modeling was validated through third-party tested results for 10' deck span and 10' beam span, using 2x8 at 24" on center joist spacing.

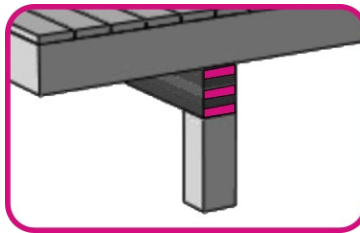
**Drop Beam
Span Performance
(10' deck span)**

DECK	DROP BEAM CONFIGURATION		L/360 FOR 10' DECK SPAN
BOARD DIMENSION	BEAM	# OF PILES	
2" x 8"	2" x 8" joist	2	13'
	Laminated 2" x 6"	5	14'
2" x 10"	2" x 10" joist	2	20'

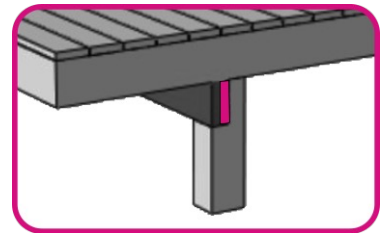
**(2) 2" x 8"
Drop Beam**



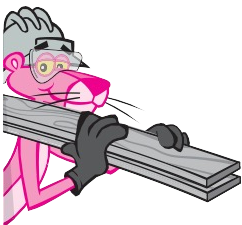
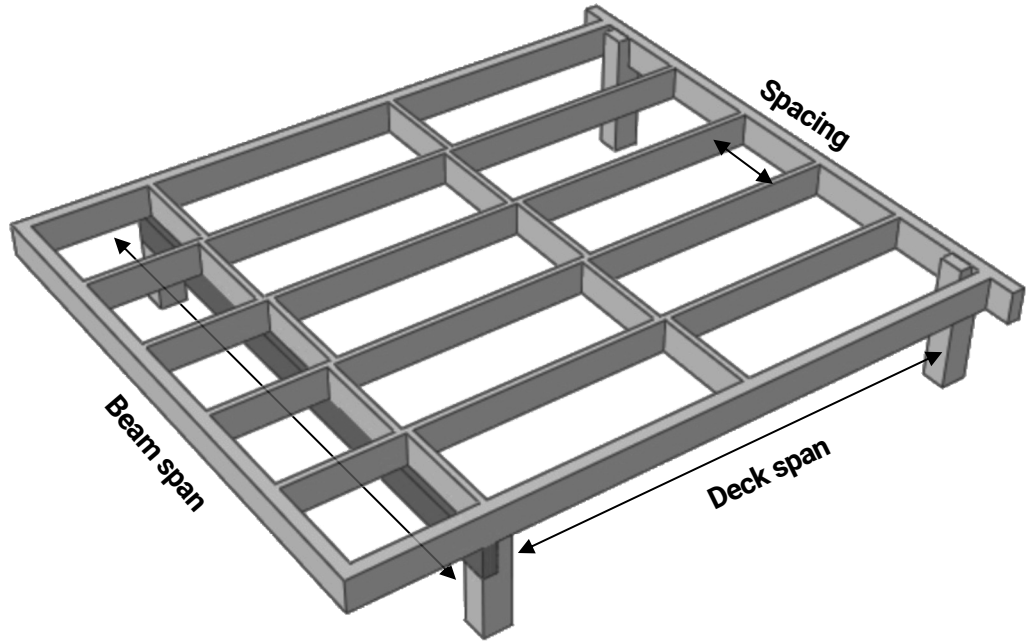
**(5) Laminated 2" x 6"
Drop Beam**



**(2) 2" x 10"
Drop Beam**



**Spans
& Spacing**



Owens Corning Composite Materials, LLC

One Owens Corning Parkway

Toledo, OH 43659 USA

325-425-8667

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