KeyBeam GS Beam® 5.011 (Build 20) kmBeamEngine 4.600y Materials Database 1381

Member Data

Standard Load:

Dead Load: 15 PLF

Description:

Member Type: Beam

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: Continuous

Moisture Condition: Dry Live Load: 40 PLF

Deflection Criteria: L/360 live, L/240 total Deck Connection: Nailed

Filename: KYB2

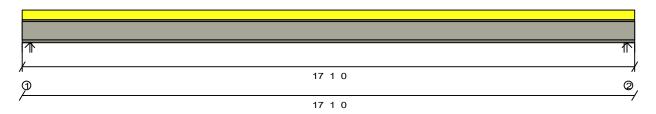
Application: Floor

Building Code: IBC/IRC

Member Weight: 20.9 PLF

Other Loads

Trib. Other Dead Type (Description) Width Category Side End Start End Start End Begin Replacement Uniform (PLF) Top 0' 0.00" 17' 1.00" 460 195 Live



Bearings and Reactions

				Input	IVIIN	Gravity	Gravity
	Location	Type	Material	Length	Required	Reaction	Uplift
1	0' 0.000"	Wall	Steel	3.500"	N/A	5625#	· –
2	17' 1 000"	Wall	Steel	3.500"	N/A	5625#	_

Maximum Load Case Reactions

Used for applying point loads (or line loads) to carrying members

Live Dead 1797# 3829# 3829# 1797#

Design spans

Product:

Metwood 959 - 9.25" x 5" 1 ply

PASSES DESIGN CHECKS

Design assumes continuous lateral bracing for both flanges.

Web stiffeners are required at all bearing and point load locations unless reviewed by a design engineer.

Consult manufacturer's installation guide (if applicable) for details.

Allowable Stress Design

	Actual	Allowable	Capacity	Location	Loading
Moment	280921."#	571200."#	49%	8.54'	Total Load D+L
Shear	5576.#	14400.#	38%	0.29'	Total Load D+L
V/M Interaction	0.24	1.00	24%	8.54'	Total Load D+L
TL Deflection	0.4383"	0.8323"	L/455	8.54'	Total Load D+L
LL Deflection	0.2983"	0.5549"	L/669	8.54'	Total Load L

Control: LL Deflection



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**PERSRIPS CHAPTER RUSS LLC
**PERSRIPS CHAPTER AS WHEN THE member, floor joist, bearn or girder, shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet. The design must be reviewed by a qualified designer or design professional as required for approval. This design assumes product installation according to the manufacturer's specifications.

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