

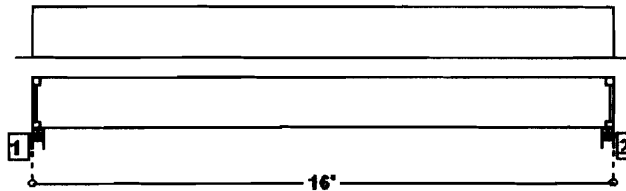


TJ-Beam® 6.35 Serial Number:
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BEAM

4 Pcs of 1 3/4" x 9 1/2" 1.9E Microllam® LVL

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



Product Diagram is Conceptual.

LOADS:

Analysis is for a Drop Beam Member. Tributary Load Width: 9' 6"
 Primary Load Group - Residential - Sleeping Areas (psf): 30.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

	Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Stud wall 3.50"	1.50"	2280 / 1059 / 0 / 3339	L1: Blocking	1 Ply 1 3/4" x 9 1/2" 1.9E Microllam® LVL
2	Stud wall 3.50"	1.50"	2280 / 1059 / 0 / 3339	L1: Blocking	1 Ply 1 3/4" x 9 1/2" 1.9E Microllam® LVL

-See iLevel® Specifier's/Builder's Guide for detail(s): L1: Blocking

DESIGN CONTROLS:

	Maximum	Design	Control	Result	Location
Shear (lbs)	3269	-2887	12635	Passed (23%)	Rt. end Span 1 under Floor loading
Moment (Ft-Lbs)	12805	12805	23550	Passed (54%)	MID Span 1 under Floor loading
Live Load Defl (in)		0.422	0.522	Passed (L/445)	MID Span 1 under Floor loading
Total Load Defl (in)		0.619	0.783	Passed (L/304)	MID Span 1 under Floor loading

-Deflection Criteria: STANDARD(LL:L/360,TL:L/240).

-Bracing(Lu): All compression edges (top and bottom) must be braced at 16' o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

ADDITIONAL NOTES:

-IMPORTANT! The analysis presented is output from software developed by iLevel®. iLevel® warrants the sizing of its products by this software will be accomplished in accordance with iLevel® product design criteria and code accepted design values. The specific product application, input design loads, and stated dimensions have been provided by the software user. This output has not been reviewed by an iLevel® Associate.

-Not all products are readily available. Check with your supplier or iLevel® technical representative for product availability.

-THIS ANALYSIS FOR iLevel® PRODUCTS ONLY! PRODUCT SUBSTITUTION VOIDS THIS ANALYSIS.

-Allowable Stress Design methodology was used for Building Code IBC analyzing the iLevel® Distribution product listed above.

-Note: See iLevel® Specifier's/Builder's Guide for multiple ply connection.

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PROJECT INFORMATION:

GRAEF
 30 SALEM ST
 PORTLAND ME
 DAVIS AND SON CONSTRUCTION

OPERATOR INFORMATION:

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11/11/09

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TJ-Beam® 6.35 Serial Number:
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BEAM

4 Pcs of 1 3/4" x 9 1/2" 1.9E Microllam® LVL

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED

Load Group: Primary Load Group

	^	15' 8.00"	^
Max. Vertical Reaction Total (lbs)	3339		3339
Max. Vertical Reaction Live (lbs)	2280		2280
Required Bearing Length in	1.50 (W)		1.50 (W)
Max. Unbraced Length (in)		192	

Loading on all spans, LDF = 0.90 , 1.0 Dead

Shear at Support (lbs)	916	-916
Max Shear at Support (lbs)	1037	-1037
Member Reaction (lbs)	1037	1037
Support Reaction (lbs)	1059	1059
Moment (Ft-Lbs)		4061

Loading on all spans, LDF = 1.00 , 1.0 Dead + 1.0 Floor

Shear at Support (lbs)	2887	-2887
Max Shear at Support (lbs)	3269	-3269
Member Reaction (lbs)	3269	3269
Support Reaction (lbs)	3339	3339
Moment (Ft-Lbs)		12805
Live Deflection (in)		0.422
Total Deflection (in)		0.619

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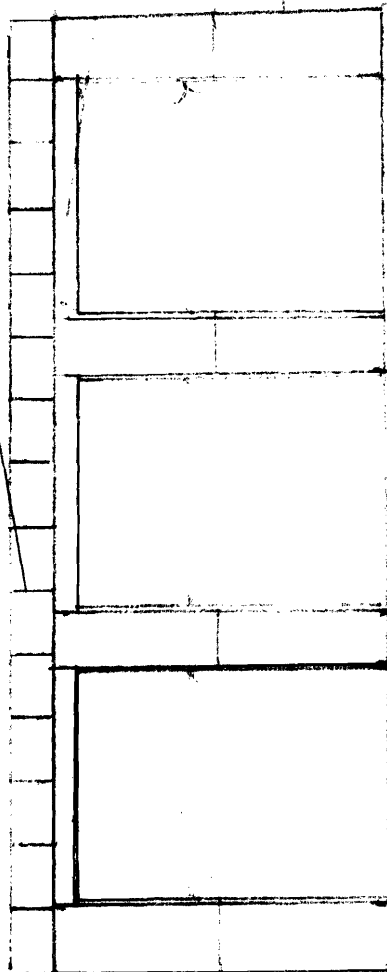
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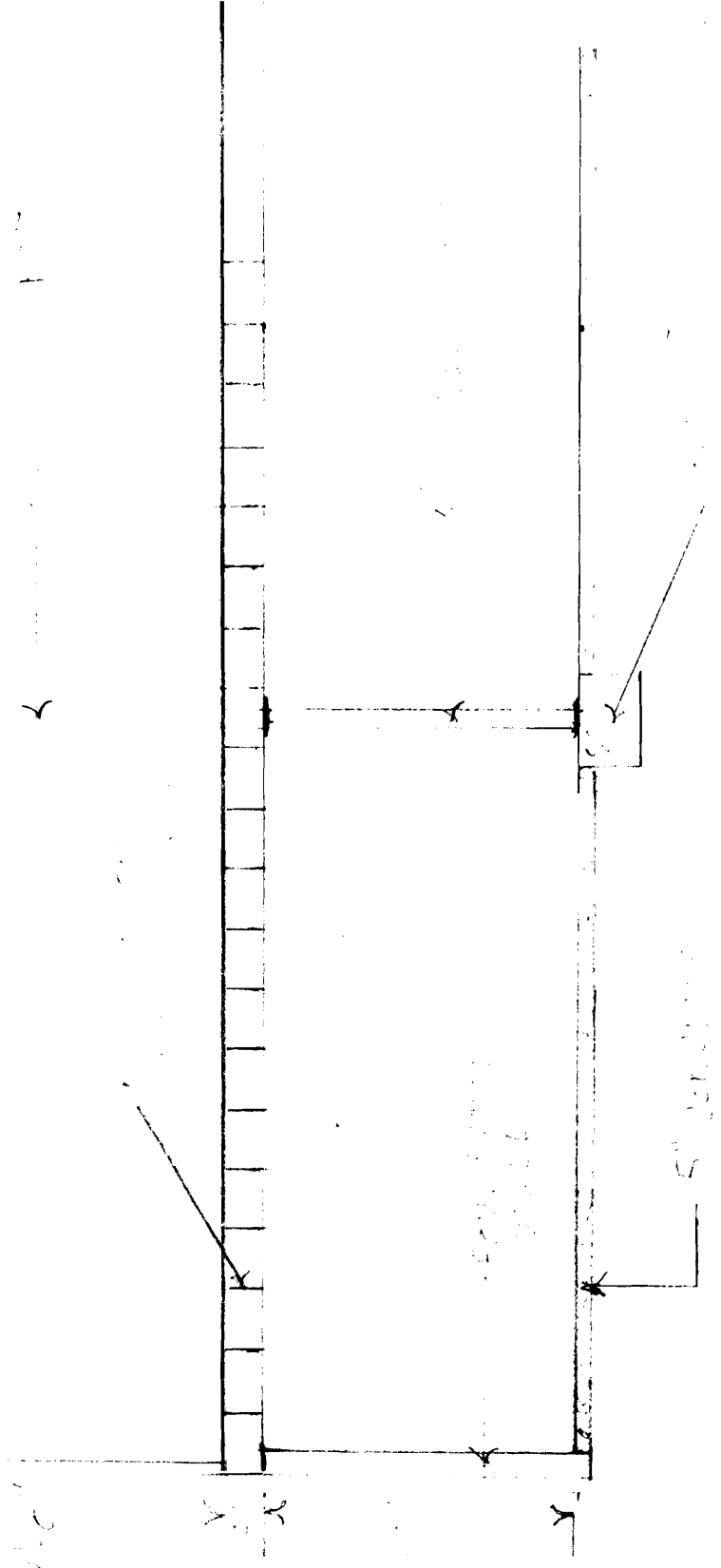
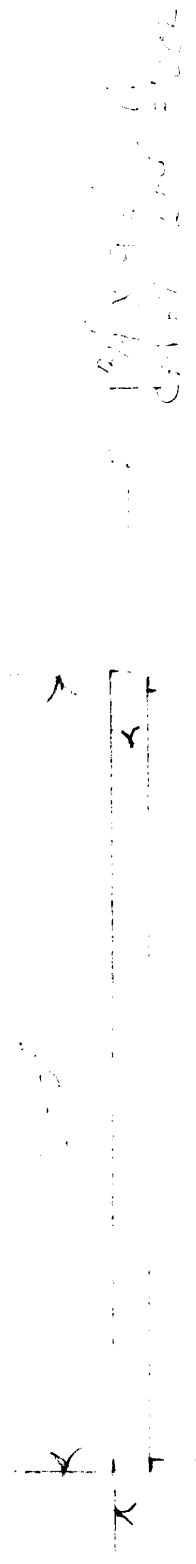


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