FORTE® JOB SUMMARY REPORT

floor support beam.4te

01: Floor Loading			
Member Name	**Results**	**Current Solution**	**Comments**
Floor: Joist Receptionist	Passed	1 Piece(s) 14" TJI® 360 @ 12" OC	
Floor: Joist Waiting #1	Passed	1 Piece(s) 14" TJI® 360 @ 12" OC	
Floor: Joist Waiting #2	Passed	1 Piece(s) 14" TJI® 360 @ 12" OC	
Floor: Joist Corridor	Passed	1 Piece(s) 14" TJI® 360 @ 12" OC	
Floor: Joist Conference	Passed	1 Piece(s) 14" TJI® 360 @ 12" OC	
02: Floor Support			
Member Name	**Results**	**Current Solution**	**Comments**
Floor: Drop Beam #1	Passed	3 Piece(s) 1 3/4" x 16" 1.9E Microllam® LVL	

STEEL BEAM CHECK

$M = 40,631$ Ft-lbs

$S_{REQ'd} = \frac{40,631 \times 12}{18,000} = 27.09\ IN^3$

USE: W8 X 35 = $31.2\ IN^3$

W10 X 30 = $32.4\ IN^3$

DEFLECTION:

3" ϕ STANDARD STEEL PIPE 34 k > 33.3 k

FOOTING

$\frac{33,324}{2,000} = 16.62$ SQ FT.

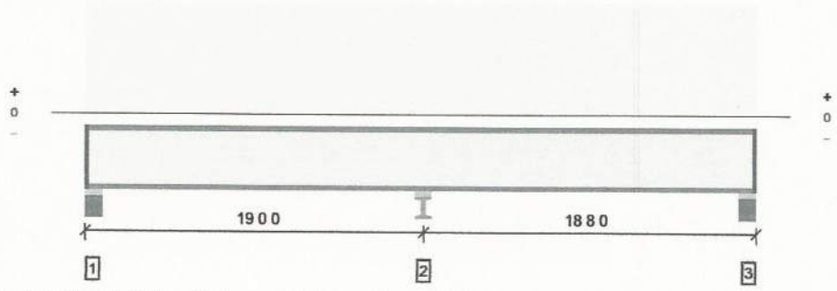
$\frac{33,324 + (18.75 \times 160)}{2000} = 18.62$ SQ FT = 4.31' SQ.

USE: 4'-3" SQUARE FOOTING.

Forte Software Operator	Job Notes
K. Hector Girardin TechCAD Services LLC (785) 249-3884 hector@techcadservices.com	Lore & Hegmann Sacred Heart Parish Office Emporia, Kansas

1 piece(s) 14" TJI® 360 @ 12" OC

Overall Length: 37 8 0



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.;Drawing is Conceptual

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern) [Group]
Member Reaction (lbs)	966 @ 0 4 8	1505 (3.50")	Passed (64%)	1.00	1.0 D + 1.0 L (Conc. LL @ 15") (All Spans) [11]
Shear (lbs)	1096 @ 18 7 4	1955	Passed (56%)	1.00	1.0 D + 1.0 L (Conc. LL @ 207") (All Spans) [27]
Moment (Ft-lbs)	3568 @ 8 2 13	7335	Passed (49%)	1.00	1.0 D + 1.0 L (Conc. LL @ 99") (All Spans) [18]
Live Load Defl. (in)	0.277 @ 9 1 4	0.466	Passed (L/806)	--	1.0 D + 1.0 L (Conc. LL @ 111") (All Spans) [19]
Total Load Defl. (in)	0.312 @ 9 1 4	0.931	Passed (L/717)	--	1.0 D + 1.0 L (Conc. LL @ 111") (All Spans) [19]
TJ-Pro™ Rating	54	40	Passed	--	--

System : Floor
Member Type : Joist
Building Use : Commercial
Building Code : IBC
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 4 9 1 o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None
- A concentrated floor live load has been applied to this member per IBC section 1607.4.

Supports	Bearing (Includes the effects of the Conc. LL)			Loads to Supports (lbs) (Without the Conc. LL)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Plate on concrete - SPF	5.50"	4.25"	1.75"	111	553/-66	664/-66	1 1/4" Rim Board
2 - Plate on steel - SPF	5.25"	5.25"	3.50"	346	1500	1846	None
3 - Plate on concrete - SPF	5.50"	4.25"	1.75"	108	545/-71	653/-71	1 1/4" Rim Board

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.

Loads	Location	Spacing	Combine[1]	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 0 0 to 37 8 0	12"	No	15.0	50.0	Office Buildings - Offices
2 - Uniform (PSF)	0 0 0 to 37 8 0	12"	Yes	-	15.0	Partition Load
3 - Concentrated Live Load (lbs)[2]	Varies	12"	-	-	2000	Office Buildings - Lobbies and 1st Floor Corridors

- [1] Combine floor live load with the concentrated live load check
- [2] Uniformly distributed over an area of 2½ feet by 2½ feet

Member Notes

Reception, Secretary, Pastor

Weyerhaeuser Notes

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current Weyerhaeuser literature for installation details. (www.woodbywy.com) Accessories (Rim Board, Blocking Panels and Squash Blocks) are not designed by this software. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. Products manufactured at Weyerhaeuser facilities are third-party certified to sustainable forestry standards. Weyerhaeuser Engineered Lumber Products have been evaluated by ICC ES under technical reports ESR-1153 and ESR-1387 and/or tested in accordance with applicable ASTM standards. For current code evaluation reports refer to http://www.woodbywy.com/services/s_CodeReports.aspx.

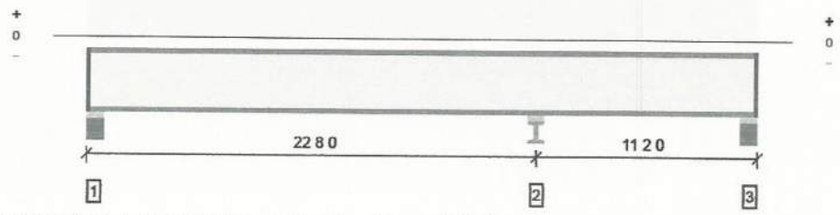
The product application, input design loads, dimensions and support information have been provided by Schmidt Engineering Consultants, Inc

SUSTAINABLE FORESTRY INITIATIVE

Forte Software Operator	Job Notes
K. Hector Girardin TechCAD Services LLC (785) 249-3884 hector@techcadservices.com	Lore & Hegmann Sacred Heart Parish Office Emporia, Kansas

1 piece(s) 14" TJI® 360 @ 12" OC

Overall Length: 33 10 0



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.;Drawing is Conceptual

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern) [Group]
Member Reaction (lbs)	1199 @ 33 5 8	1505 (3.50")	Passed (80%)	1.00	1.0 D + 1.0 L (Conc. LL @ 388.5") (All Spans) [43]
Shear (lbs)	1442 @ 23 1 4	1955	Passed (74%)	1.00	1.0 D + 1.0 L (Conc. LL @ 291") (All Spans) [34]
Moment (Ft-lbs)	4295 @ 9 3 4	7335	Passed (59%)	1.00	1.0 D + 1.0 L (Conc. LL @ 111") (All Spans) [19]
Live Load Defl. (in)	0.401 @ 10 3 4	0.557	Passed (L/667)	--	1.0 D + 1.0 L (Conc. LL @ 123") (All Spans) [20]
Total Load Defl. (in)	0.482 @ 10 3 8	1.115	Passed (L/555)	--	1.0 D + 1.0 L (Conc. LL @ 123") (All Spans) [20]
TJ-Pro™ Rating	43	40	Passed	--	--

System : Floor
Member Type : Joist
Building Use : Commercial
Building Code : IBC
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 4 4 1 o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- -220 lbs uplift at support 33 4 4. Strapping or other restraint may be required.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None
- A concentrated floor live load has been applied to this member per IBC section 1607.4.

Supports	Bearing (Includes the effects of the Conc. LL)			Loads to Supports (lbs) (Without the Conc. LL)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Plate on concrete - SPF	5.50"	4.25"	1.75"	141	627/-15	768/-15	1 1/4" Rim Board
2 - Plate on steel - SPF	5.25"	5.25"	3.50"	344	1703	2047	None
3 - Plate on concrete - SPF	5.50"	4.25"	2.24"	22	533/-242	555/-242	1 1/4" Rim Board

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.

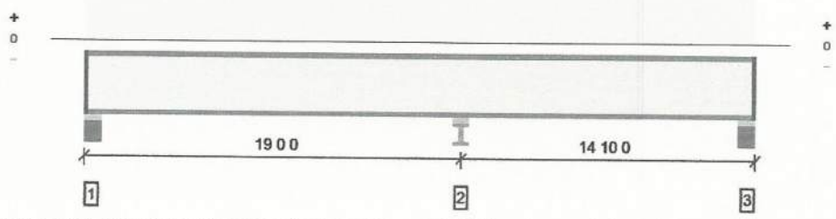
Loads	Location	Spacing	Combine[1]	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 0 0 to 22 8 0	12"	No	15.0	50.0	Office Buildings - Offices
2 - Uniform (PSF)	0 0 0 to 22 8 0	12"	Yes	-	15.0	Partition Load
3 - Uniform (PSF)	22 8 0 to 33 10 0	12"	Yes	15.0	100.0	Office Buildings - Lobbies and 1st Floor Corridors
4 - Concentrated Live Load (lbs)[2]	Varies	12"	-	-	2000	Office Buildings - Lobbies and 1st Floor Corridors

- [1] Combine floor live load with the concentrated live load check
- [2] Uniformly distributed over an area of 2½ feet by 2½ feet

Member Notes
Waiting, Secretary, Pastor

1 piece(s) 14" TJI® 360 @ 12" OC

Overall Length: 33 10 0



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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern) [Group]
Member Reaction (lbs)	2977 @ 19 0 0	3000 (5.25")	Passed (99%)	1.00	1.0 D + 1.0 L (Conc. LL @ 207") (All Spans) [27]
Shear (lbs)	1821 @ 18 7 4	1955	Passed (93%)	1.00	1.0 D + 1.0 L (Conc. LL @ 207") (All Spans) [27]
Moment (Ft-lbs)	-5008 @ 19 0 0	7335	Passed (68%)	1.00	1.0 D + 1.0 L (Conc. LL @ 135") (All Spans) [21]
Live Load Defl. (in)	0.381 @ 9 7 4	0.466	Passed (L/586)	--	1.0 D + 1.0 L (Conc. LL @ 111") (All Spans) [19]
Total Load Defl. (in)	0.420 @ 9 1 4	0.931	Passed (L/532)	--	1.0 D + 1.0 L (Conc. LL @ 111") (All Spans) [19]
TJ-Pro™ Rating	54	40	Passed	--	--

System : Floor
Member Type : Joist
Building Use : Commercial
Building Code : IBC
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 4 0 3 o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None
- A concentrated floor live load has been applied to this member per IBC section 1607.4.

Supports	Bearing (Includes the effects of the Conc. LL)			Loads to Supports (lbs) (Without the Conc. LL)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Plate on concrete - SPF	5.50"	4.25"	1.84"	116	618/-55	734/-55	1 1/4" Rim Board
2 - Plate on steel - SPF	5.25"	5.25"	5.17"	314	1996	2310	None
3 - Plate on concrete - SPF	5.50"	4.25"	2.90"	77	681/-138	758/-138	1 1/4" Rim Board

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.

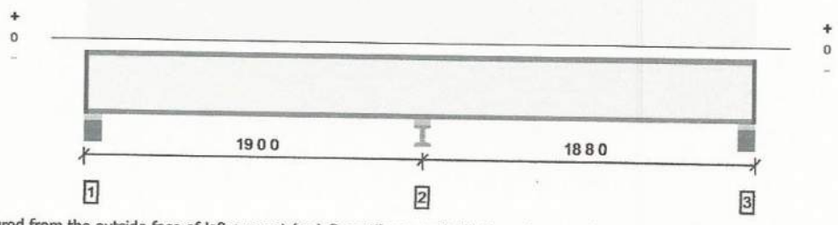
Loads	Location	Spacing	Combine[1]	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 0 0 to 8 6 0	12"	No	15.0	50.0	Office Buildings - Offices
2 - Uniform (PSF)	0 0 0 to 8 6 0	12"	Yes	-	15.0	Partition Load
3 - Uniform (PSF)	8 6 0 to 33 10 0	12"	Yes	15.0	100.0	Office Buildings - Lobbies and 1st Floor Corridors
4 - Concentrated Live Load (lbs)[2]	Varies	12"	-	-	2000	Office Buildings - Lobbies and 1st Floor Corridors

- [1] Combine floor live load with the concentrated live load check
- [2] Uniformly distributed over an area of 2½ feet by 2½ feet

Member Notes
Waiting, Closet, Restroom

1 piece(s) 14" TJI® 360 @ 12" OC

Overall Length: 37 8 0



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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern) [Group]
Member Reaction (lbs)	1391 @ 37 3 8	1505 (3.50")	Passed (92%)	1.00	1.0 D + 1.0 L (Conc. LL @ 434.5") (All Spans) [46]
Shear (lbs)	1626 @ 19 2 10	1955	Passed (83%)	1.00	1.0 D + 1.0 L (Conc. LL @ 255") (All Spans) [31]
Moment (Ft-lbs)	5226 @ 29 5 1	7335	Passed (71%)	1.00	1.0 D + 1.0 L (Conc. LL @ 351") (All Spans) [39]
Live Load Defl. (in)	0.442 @ 28 7 4	0.457	Passed (L/496)	--	1.0 D + 1.0 L (Conc. LL @ 339") (All Spans) [38]
Total Load Defl. (in)	0.473 @ 28 7 4	0.915	Passed (L/464)	--	1.0 D + 1.0 L (Conc. LL @ 339") (All Spans) [38]
TJ-Pro™ Rating	54	40	Passed	--	--

System : Floor
Member Type : Joist
Building Use : Commercial
Building Code : IBC
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 3 11 3 o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None
- A concentrated floor live load has been applied to this member per IBC section 1607.4.

Supports	Bearing (Includes the effects of the Conc. LL)			Loads to Supports (lbs) (Without the Conc. LL)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Plate on concrete - SPF	5.50"	4.25"	1.75"	111	553/-76	664/-76	1 1/4" Rim Board
2 - Plate on steel - SPF	5.25"	5.25"	3.50"	346	1654	2000	None
3 - Plate on concrete - SPF	5.50"	4.25"	3.03"	108	565/-71	673/-71	1 1/4" Rim Board

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.

Loads	Location	Spacing	Combine[1]	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 0 0 to 20 0 0	12"	No	15.0	50.0	Office Buildings - Offices
2 - Uniform (PSF)	0 0 0 to 20 0 0	12"	Yes	-	15.0	Partition Load
3 - Uniform (PSF)	20 0 0 to 24 8 0	12"	Yes	15.0	100.0	Office Buildings - Lobbies and 1st Floor Corridors
4 - Uniform (PSF)	24 8 0 to 37 8 0	12"	Yes	15.0	50.0	Office Buildings - Offices
5 - Uniform (PSF)	24 8 0 to 37 8 0	12"	Yes	-	15.0	Partition Load
6 - Concentrated Live Load (lbs)[2]	Varies	12"	-	-	2000	Office Buildings - Lobbies and 1st Floor Corridors

- [1] Combine floor live load with the concentrated live load check
- [2] Uniformly distributed over an area of 2½ feet by 2½ feet

Member Notes
Office, Corridor, Restroom, Business

Forte Software Operator
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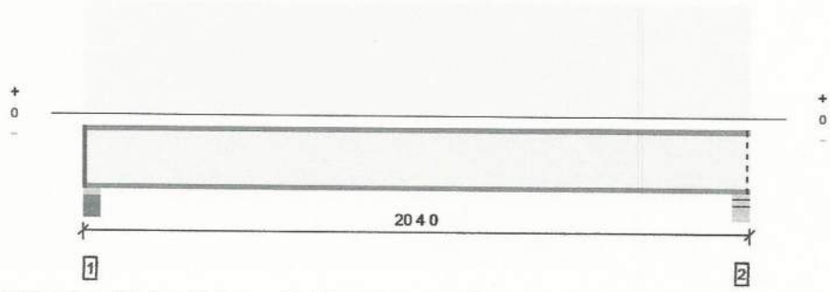
Job Notes
Lore & Hegmann
Sacred Heart Parish Office
Emporia, Kansas

1 piece(s) 14" TJI® 360 @ 12" OC

Overall Length: 20 4 0



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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern) [Group]
Member Reaction (lbs)	1068 @ 19 11 8	1505 (3.50")	Passed (71%)	1.00	1.0 D + 1.0 L (Conc. LL @ 227.75") (All Spans) [29]
Shear (lbs)	1026 @ 19 10 8	1955	Passed (52%)	1.00	1.0 D + 1.0 L (Conc. LL @ 219") (All Spans) [28]
Moment (Ft-lbs)	5103 @ 10 3 13	7335	Passed (70%)	1.00	1.0 D + 1.0 L (Conc. LL @ 123") (All Spans) [20]
Live Load Defl. (in)	0.445 @ 10 2 9	0.490	Passed (L/528)	--	1.0 D + 1.0 L (Conc. LL @ 123") (All Spans) [20]
Total Load Defl. (in)	0.527 @ 10 2 8	0.979	Passed (L/446)	--	1.0 D + 1.0 L (Conc. LL @ 123") (All Spans) [20]
TJ-Pro™ Rating	50	40	Passed	--	--

System : Floor
Member Type : Joist
Building Use : Commercial
Building Code : IBC
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 3 11 12 o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None
- A concentrated floor live load has been applied to this member per IBC section 1607.4.

Supports	Bearing (Includes the effects of the Conc. LL)			Loads to Supports (lbs) (Without the Conc. LL)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Plate on concrete - SPF	5.50"	4.25"	1.75"	152	661	813	1 1/4" Rim Board
2 - Stud wall - SPF	5.50"	5.50"	1.75"	153	661	814	Blocking

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.
- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location	Spacing	Combine[1]	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 0 0 to 20 4 0	12"	No	15.0	50.0	Office Buildings - Offices
2 - Uniform (PSF)	0 0 0 to 20 4 0	12"	Yes	-	15.0	Partition Load
3 - Concentrated Live Load (lbs)[2]	Varies	12"	-	-	2000	Office Buildings - Lobbies and 1st Floor Corridors

- [1] Combine floor live load with the concentrated live load check
- [2] Uniformly distributed over an area of 2½ feet by 2½ feet

Member Notes

Conference

Weyerhaeuser Notes

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The product application, input design loads, dimensions and support information have been provided by Schmidt Engineering Consultants, Inc

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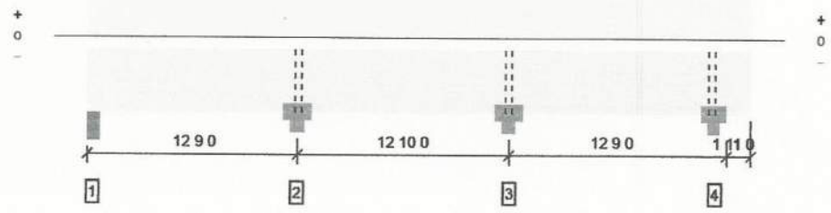
Forte Software Operator	Job Notes
K. Hector Girardin TechCAD Services LLC (785) 249-3884 hector@techcadservices.com	Lore & Hegmann Sacred Heart Parish Office Emporia, Kansas

3 piece(s) 1 3/4" x 16" 1.9E Microllam® LVL

Overall Length: 40 3 0



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.;Drawing is Conceptual

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	33324 @ 25 7 0	35438 (9.00")	Passed (94%)	--	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	13285 @ 14 5 8	15960	Passed (83%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-40631 @ 25 7 0	46671	Passed (87%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.270 @ 32 0 7	0.414	Passed (L/551)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.307 @ 32 0 15	0.621	Passed (L/485)	--	1.0 D + 1.0 L (Alt Spans)

System : Floor
Member Type : Drop Beam
Building Use : Commercial
Building Code : IBC
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Overhang deflection criteria: LL (2L/360) and TL (2L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 6 4 4 o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Pocket in masonry - concrete	4.00"	4.00"	3.00"	1925	9869/-1373	11794/-1373	None
2 - Column Cap - steel	9.00"	9.00"	8.45"	5070	28191	33261	Blocking
3 - Column Cap - steel	9.00"	9.00"	8.46"	4942	28382	33324	Blocking
4 - Column Cap - steel	8.00"	8.00"	4.47"	2756	14846	17602	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PLF)	0 0 0 to 12 6 0	N/A	346.0	1500.0	Office Buildings - Offices
2 - Uniform (PSF)	0 0 0 to 40 3 0	12 0 0	-	15.0	Partition Load
3 - Uniform (PLF)	12 6 0 to 14 8 0	N/A	344.0	1703.0	Office Buildings - Offices
4 - Uniform (PLF)	14 8 0 to 19 9 0	N/A	314.0	1996.0	Office Buildings - Offices
5 - Uniform (PLF)	19 9 0 to 40 3 0	N/A	346.0	1654.0	Office Buildings - Offices

Member Notes

Floor Support - Steel Beam

Weyerhaeuser Notes

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current Weyerhaeuser literature for installation details. (www.woodbywy.com) Accessories (Rim Board, Blocking Panels and Squash Blocks) are not designed by this software. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. Products manufactured at Weyerhaeuser facilities are third-party certified to sustainable forestry standards. Weyerhaeuser Engineered Lumber Products have been evaluated by ICC ES under technical reports ESR-1153 and ESR-1387 and/or tested in accordance with applicable ASTM standards. For current code evaluation reports refer to http://www.woodbywy.com/services/s_CodeReports.aspx.

The product application, input design loads, dimensions and support information have been provided by Schmidt Engineering Consultants, Inc

SUSTAINABLE FORESTRY INITIATIVE

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