DAVE DIPIETRO

PA!

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/18/16

FORTE® **MEMBER REPORT** *Level, 4 Ply Flush L/360*
4 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Overall Length: 17' 5"

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	LD	Load Combination (Pattern)
Member Reaction (lbs)	6551 @ 2"	10413 (3.50")	Passed (63%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	5587 @ 1' 3 3/8"	15794	Passed (35%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	27442 @ 8' 8 1/2"	35696	Passed (77%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.578 @ 8' 8 1/2"	0.569	Passed (L/355)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.776 @ 8' 8 1/2"	0.854	Passed (L/264)	--	1.0 D + 1.0 L (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 17' 2 1/2" 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 - Stud wall - SPF	3.50"	3.50"	2.20"	1674	4877	6551	Blocking
2 - Stud wall - SPF	3.50"	3.50"	2.20"	1674	4877	6551	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 (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 17' 5"	N/A	24.2		
1 - Uniform (PSF)	0 to 17' 5" (Front)	14'	12.0	40.0	Residential - Living Areas

SUSTAINABLE FORESTRY INITIATIVE

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 Rufus Deering - John

Carring Beam's LVL

Forte Software Operator	Job Notes
James Hardenbergh BlueLinx (888) 676-9417 James.Hardenbergh@Bluelinxco.com	Beam Spans

6/23/2016 2:30:03 PM
Forte v5.1, Design Engine: V6.5.1.1
201606~1.4TE

DAVE DIPIETRO

PA!

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/18/16

FORTE® **MEMBER REPORT** *Level, 4 Ply Flush L/360*
4 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Overall Length: 17' 5"

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	Loads Combination (Pattern)
Member Reaction (lbs)	6551 @ 2"	10413 (3.50")	Passed (63%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	5587 @ 1' 3 3/8"	15794	Passed (35%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	27442 @ 8' 8 1/2"	35696	Passed (77%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.578 @ 8' 8 1/2"	0.569	Passed (L/355)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.776 @ 8' 8 1/2"	0.854	Passed (L/264)	--	1.0 D + 1.0 L (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 17' 2 1/2" 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 - Stud wall - SPF	3.50"	3.50"	2.20"	1674	4877	6551	Blocking
2 - Stud wall - SPF	3.50"	3.50"	2.20"	1674	4877	6551	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 (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 17' 5"	N/A	24.2		
1 - Uniform (PSF)	0 to 17' 5" (Front)	14'	12.0	40.0	Residential - Living Areas

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 Rufus Deering - John

SUSTAINABLE FORESTRY INITIATIVE

Carring Beam's LVL

Forte Software Operator	Job Notes
James Hardenbergh BlueLinx (888) 676-9417 James.Hardenbergh@Bluelinxco.com	Beam Spans

6/23/2016 2:30:03 PM
Forte v5.1, Design Engine: V6.5.1.1
201606~1.4TE

PAS

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/18/16

FORTE® MEMBER REPORT *Level, 3 Ply Flush L/360*

3 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Overall Length: 15' 9"

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)	5876 @ 2"	7809 (3.50")	Passed (75%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	4920 @ 1' 3 3/8"	11845	Passed (42%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	22169 @ 7' 10 1/2"	26772	Passed (83%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.517 @ 7' 10 1/2"	0.514	Passed (L/358)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.688 @ 7' 10 1/2"	0.771	Passed (L/269)	--	1.0 D + 1.0 L (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 12' 1/16" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing			Loads to Supports (lbs)			
	Total	Available	Required	Dead	Floor Live	Total	Accessories
1 - Stud wall - SPF	3.50"	3.50"	2.63"	1466	4410	5876	Blocking
2 - Stud wall - SPF	3.50"	3.50"	2.63"	1466	4410	5876	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 (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 15' 9"	N/A	18.2		
1 - Uniform (PSF)	0 to 15' 9" (Front)	14'	12.0	40.0	Residential - Living Areas

SUSTAINABLE FORESTRY INITIATIVE

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 Rufus Deering - John

Forte Software Operator	Job Notes
James Hardenbergh BlueLinx (888) 676-9417 James.Hardenbergh@Bluelinxco.com	Beam Spans

6/23/2016 2:30:03 PM
Forte v5.1, Design Engine: V6.5.1.1
201606~1.4TE

FORTE® **MEMBER REPORT** *Level, 4 Ply Flush*
4 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

L/480

PA!

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/18/16

Overall Length: 15' 9"

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)	5924 @ 2"	10413 (3.50")	Passed (57%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	4960 @ 1' 3 3/8"	15794	Passed (31%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	22349 @ 7' 10 1/2"	35696	Passed (63%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.387 @ 7' 10 1/2"	0.385	Passed (L/478)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.520 @ 7' 10 1/2"	0.771	Passed (L/356)	--	1.0 D + 1.0 L (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 15' 9" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing			Loads to Supports (lbs)			
	Total	Available	Required	Dead	Floor Live	Total	Accessories
1 - Stud wall - SPF	3.50"	3.50"	1.99"	1514	4410	5924	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.99"	1514	4410	5924	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 (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 15' 9"	N/A	24.2		
1 - Uniform (PSF)	0 to 15' 9" (Front)	14'	12.0	40.0	Residential - Living Areas

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 Rufus Deering - John

SUSTAINABLE FORESTRY INITIATIVE

Forte Software Operator	Job Notes
James Hardenbergh BlueLinx (888) 676-9417 James.Hardenbergh@Bluelinxco.com	Beam Spans

6/23/2016 2:30:03 PM
Forte v5.1, Design Engine: V6.5.1.1
201606~1.4TE

FORTE® **MEMBER REPORT** *Level, 3 Ply Flush*
3 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

L/480

PA

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/18/16

Overall Length: 14' 1"

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)	5254 @ 2"	7809 (3.50")	Passed (67%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	4298 @ 1' 3 3/8"	11845	Passed (36%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	17634 @ 7' 1/2"	26772	Passed (66%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.332 @ 7' 1/2"	0.344	Passed (L/497)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.442 @ 7' 1/2"	0.688	Passed (L/373)	--	1.0 D + 1.0 L (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 14' 1" 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 - Stud wall - SPF	3.50"	3.50"	2.35"	1311	3943	5254	Blocking
2 - Stud wall - SPF	3.50"	3.50"	2.35"	1311	3943	5254	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 (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 14' 1"	N/A	18.2		
1 - Uniform (PSF)	0 to 14' 1" (Front)	14'	12.0	40.0	Residential - Living Areas

Weyerhaeuser Notes

SUSTAINABLE FORESTRY INITIATIVE

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 Rufus Deering - John

Forte Software Operator	Job Notes
James Hardenbergh BlueLinx (888) 676-9417 James.Hardenbergh@Bluelinxco.com	Beam Spans

6/23/2016 2:30:03 PM
Forte v5.1, Design Engine: V6.5.1.1
201606~1.4TE