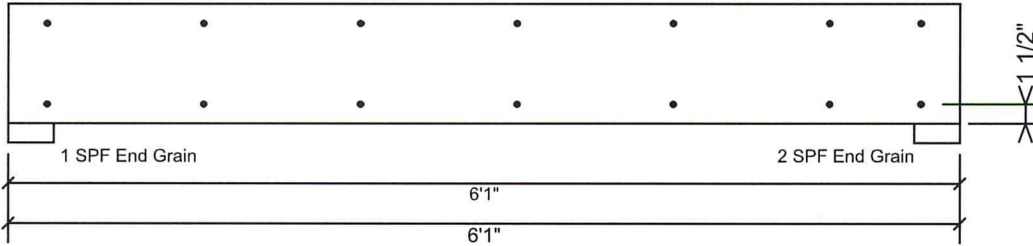


BM4 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level


Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals
Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Metsä Wood
 3071 Commerce Dr, Suite E
 Fort Gratiot, MI 48059
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

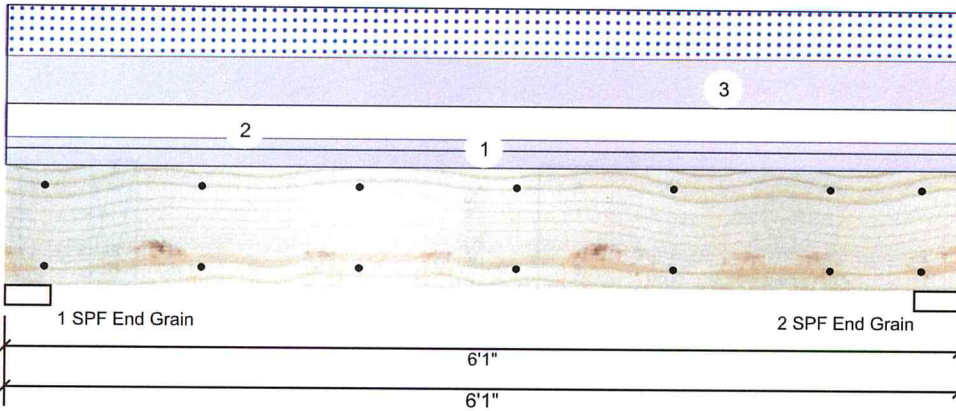
Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS





BM4 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	712	1670	1046	0	0
2	712	1670	1046	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	28%	1670 / 1319	2989	L	D+0.75(L+S)
2 - SPF End Grain	3.500"	28%	1670 / 1319	2989	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3887 ft-lb	3' 1/2"	14423 ft-lb	0.269 (27%)	D+0.75(L+S)	L
Unbraced	3887 ft-lb	3' 1/2"	10944 ft-lb	0.355 (36%)	D+0.75(L+S)	L
Shear	2006 lb	1'	7943 lb	0.253 (25%)	D+0.75(L+S)	L
LL Defl inch	0.027 (L/2477)	3' 1/2"	0.141 (L/480)	0.190 (19%)	0.75(L+S)	L
TL Defl inch	0.062 (L/1093)	3' 1/2"	0.188 (L/360)	0.330 (33%)	D+0.75(L+S)	L

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Uniform			Top	78 PLF	234 PLF	0 PLF	0 PLF	0 PLF	F01
3	Uniform			Top	344 PLF	0 PLF	344 PLF	0 PLF	0 PLF	A3
	Self Weight				7 PLF					

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Metsä Wood
3071 Commerce Dr, Suite E
Fort Gratiot, MI 48059
(800) 622-5850
www.metsawood.com/us
ICC-ES: ESR-3633

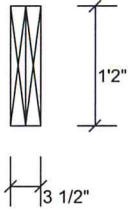
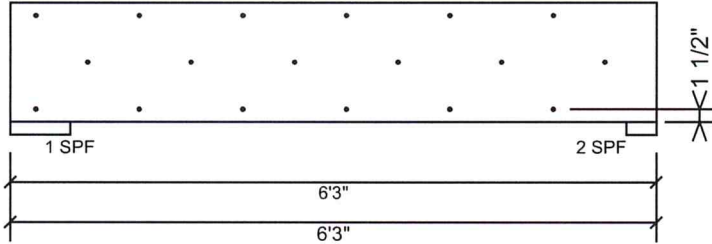
Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS





BM3 Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten 2 plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Metsä Wood
3071 Commerce Dr, Suite E
Fort Gratiot, MI 48059
(800) 622-5850
www.metsawood.com/us
ICC-ES: ESR-3633

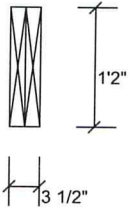
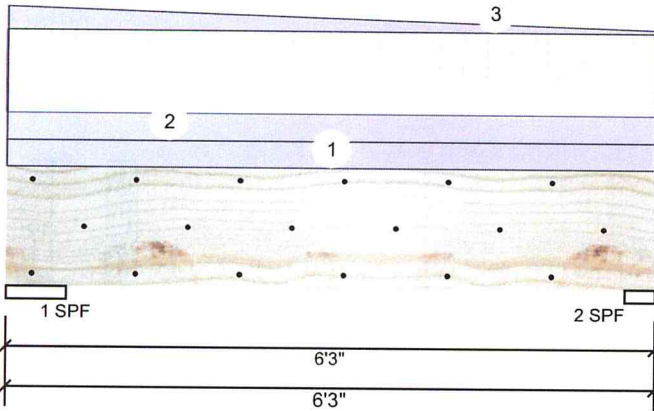
Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS





BM3 Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1213	1075	0	0	0
2	1105	883	0	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	7.000"	22%	1075 / 1213	2289	L	D+L
2 - SPF	3.500"	38%	883 / 1105	1989	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2580 ft-lb	3'2 15/16"	26999 ft-lb	0.096 (10%)	D+L	L
Unbraced	2580 ft-lb	3'2 15/16"	17730 ft-lb	0.146 (15%)	D+L	L
Shear	1080 lb	4'10 1/4"	10453 lb	0.103 (10%)	D+L	L
LL Defl inch	0.008 (L/8178)	3'3 1/4"	0.138 (L/480)	0.060 (6%)	L	L
TL Defl inch	0.015 (L/4446)	3'3 1/8"	0.183 (L/360)	0.080 (8%)	D+L	L

Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Uniform			Top	124 PLF	371 PLF	0 PLF	0 PLF	0 PLF	F02G
3	Tapered Start	0-0-0		Top	102 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Gable
	End	6-3-0			15 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				11 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

Handing & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements; multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

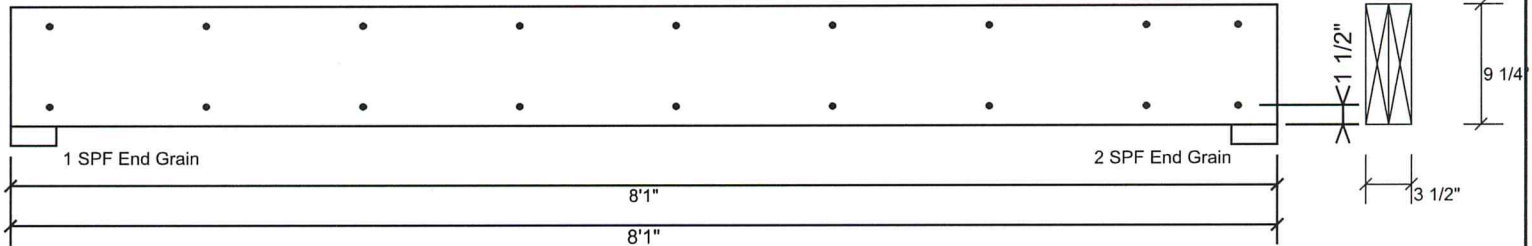
6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Metsä Wood
3071 Commerce Dr, Suite E
Fort Gratiot, MI 48059
(800) 622-5850
www.metsawood.com/us
ICC-ES: ESR-3633

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS



BM2 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED Level: Level

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

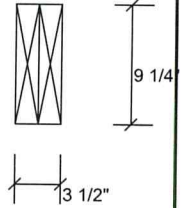
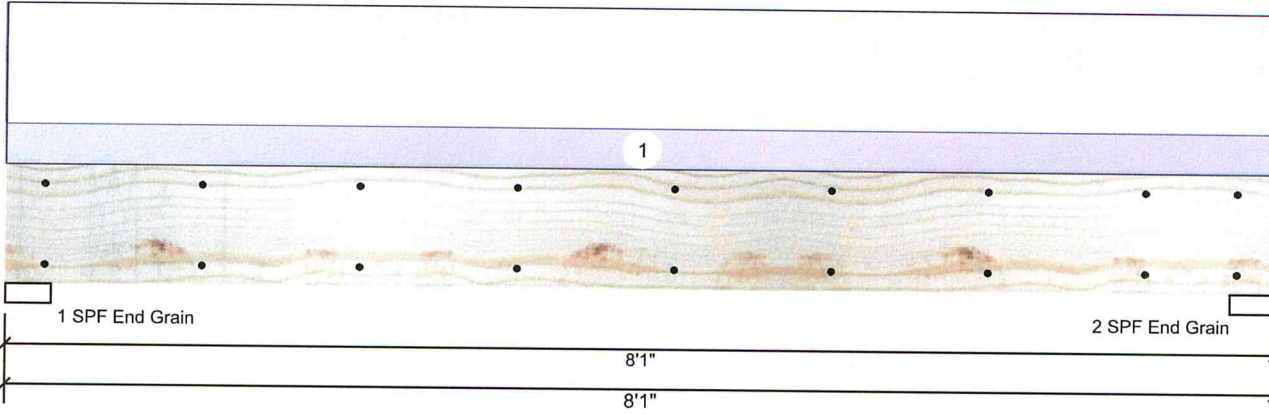
Manufacturer Info

Metsä Wood
 3071 Commerce Dr, Suite E
 Fort Gratiot, MI 48059
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



BM2 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

Type: Girder	Application: Floor
Plies: 2	Design Method: ASD
Moisture Condition: Dry	Building Code: IBC/IRC 2015
Deflection LL: 480	Load Sharing: No
Deflection TL: 360	Deck: Not Checked
Importance: Normal	
Temperature: Temp <= 100°F	

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	2853	983	0	0	0
2	2853	983	0	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	36%	983 / 2853	3836	L	D+L
2 - SPF End Grain	3.500"	36%	983 / 2853	3836	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6898 ft-lb	4' 1/2"	12542 ft-lb	0.550 (55%)	D+L	L
Unbraced	6898 ft-lb	4' 1/2"	8820 ft-lb	0.782 (78%)	D+L	L
Shear	2887 lb	7'1"	6907 lb	0.418 (42%)	D+L	L
LL Defl inch	0.135 (L/680)	4' 9/16"	0.191 (L/480)	0.710 (71%)	L	L
TL Defl inch	0.181 (L/506)	4' 9/16"	0.254 (L/360)	0.710 (71%)	D+L	L

Design Notes

- Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- Refer to last page of calculations for fasteners required for specified loads.
- Girders are designed to be supported on the bottom edge only.
- Top loads must be supported equally by all plies.
- Top braced at bearings.
- Bottom braced at bearings.
- Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Const.	Comments
1	Uniform			Top	236 PLF	706 PLF	0 PLF	0 PLF	0 PLF	F01
	Self Weight				7 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

- Dry service conditions, unless noted otherwise
- LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

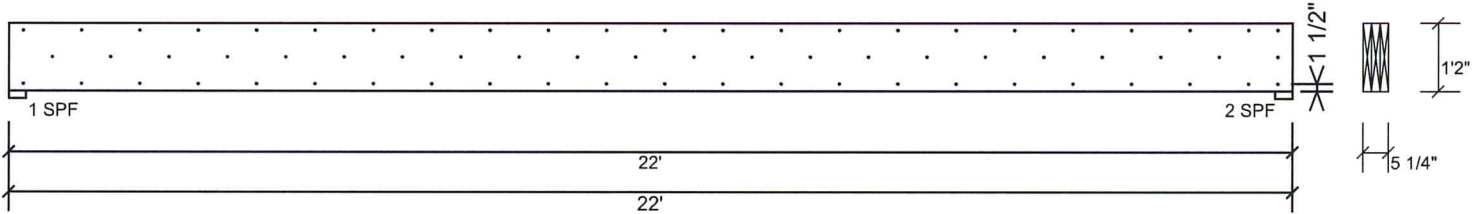
6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Metsä Wood
 3071 Commerce Dr, Suite E
 Fort Gratiot, MI 48059
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



BM1 Kerto-S LVL 1.750" X 14.000" 3-Ply - PASSED Level: Level

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals
Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

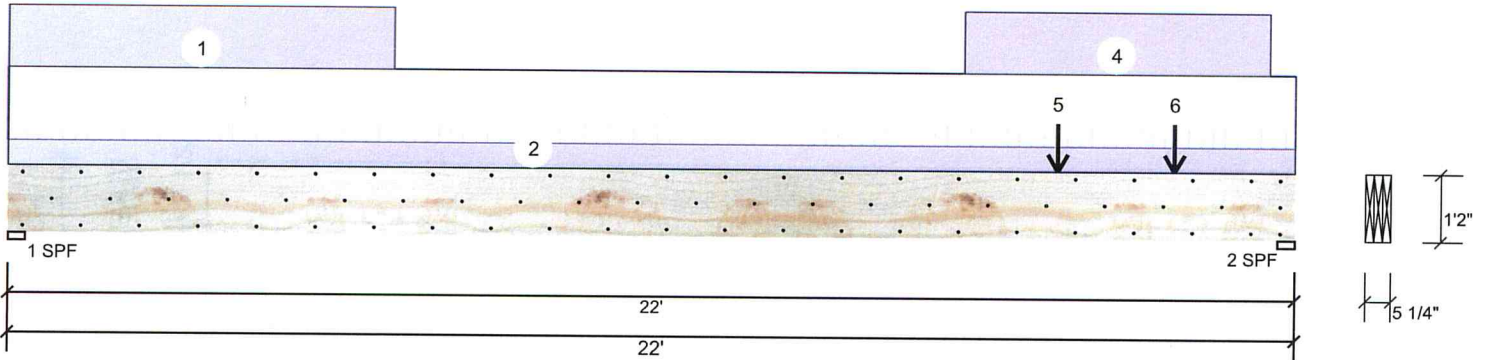
 Metsä Wood
 3071 Commerce Dr, Suite E
 Fort Gratiot, MI 48059
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

 Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS




BM1 Kerto-S LVL 1.750" X 14.000" 3-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	Yes
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1551	1653	197	0	0
2	1551	2655	1301	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	41%	1653 / 1551	3204	L	D+L
2 - SPF	3.500"	61%	2655 / 2139	4794	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	16140 ft-lb	11'9 13/16"	42119 ft-lb	0.383 (38%)	D+L	L
Unbraced	16140 ft-lb	11'9 13/16"	16170 ft-lb	0.998 (100%)	D+L	L
Shear	4443 lb	20'7 1/4"	18032 lb	0.246 (25%)	D+0.75(L+S)	L
LL Defl inch	0.297 (L/869)	11' 1/16"	0.539 (L/480)	0.550 (55%)	L	L
TL Defl inch	0.607 (L/426)	11'2 1/2"	0.718 (L/360)	0.840 (84%)	D+L	L

Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 10' o.c.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-7-0		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Uniform			Top	47 PLF	141 PLF	0 PLF	0 PLF	0 PLF	F03
4	Part. Uniform	16-4-0 to 21-6-12		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
5	Point	17-11-4		Top	749 lb	0 lb	749 lb	0 lb	0 lb	A1
6	Point	19-11-4		Top	749 lb	0 lb	749 lb	0 lb	0 lb	A1
	Self Weight				16 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Metsä Wood
3071 Commerce Dr, Suite E
Fort Gratiot, MI 48059
(800) 622-5850
www.metsawood.com/us
ICC-ES: ESR-3633

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS



GDH (Side Load) Kerto-S LVL 1.750" X 18.000" 3-Ply - PASSED Level: Level

Multi-Ply Analysis

Fasten top plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

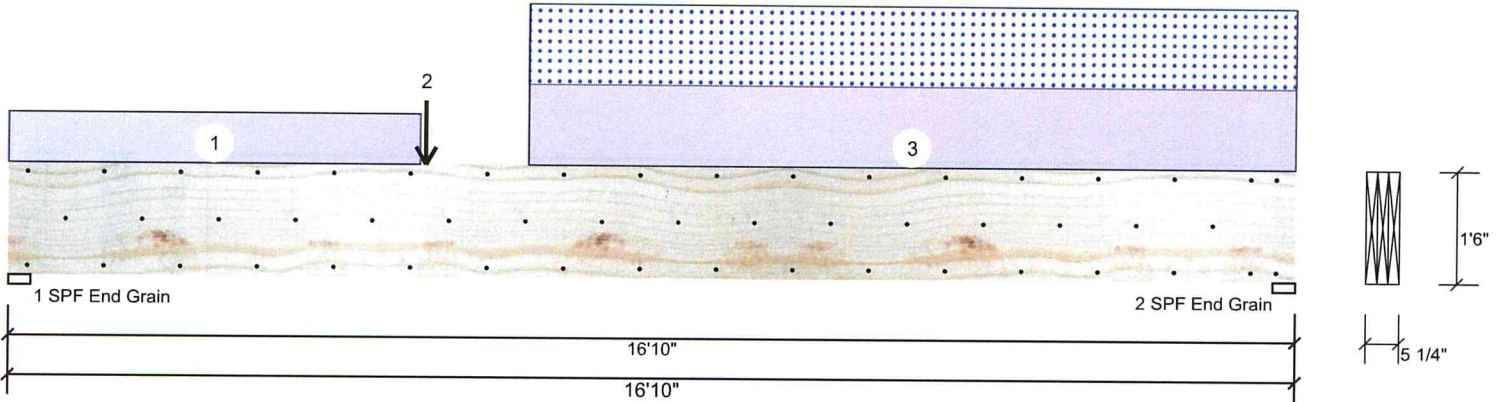
Manufacturer Info

 Metsä Wood
 3071 Commerce Dr, Suite E
 Fort Gratiot, MI 48059
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

 Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS




GDH (Side Load) Kerto-S LVL 1.750" X 18.000" 3-Ply - PASSED Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	Yes
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	3901	2698	0	0
2	0	3694	3334	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	41%	3901 / 2698	6599	L	D+S
2 - SPF End Grain	3.500"	44%	3694 / 3334	7028	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	31629 ft-lb	7'4 13/16"	77108 ft-lb	0.410 (41%)	D+S	L
Unbraced	31629 ft-lb	7'4 13/16"	31698 ft-lb	0.998 (100%)	D+S	L
Shear	6176 lb	1'8 5/8"	23184 lb	0.266 (27%)	D+S	L
LL Defl inch	0.155 (L/1269)	8'3 1/8"	0.410 (L/480)	0.380 (38%)	S	L
TL Defl inch	0.335 (L/587)	8'2 7/16"	0.547 (L/360)	0.610 (61%)	D+S	L

Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 6'3 3/8" o.c.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 5-4-8		Top	225 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Point	5-5-6		Top	2397 lb	0 lb	2397 lb	0 lb	0 lb	BM1
3	Part. Uniform	6-9-8 to 16-10-0		Top	362 PLF	0 PLF	362 PLF	0 PLF	0 PLF	B2
	Self Weight				21 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

Handing & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

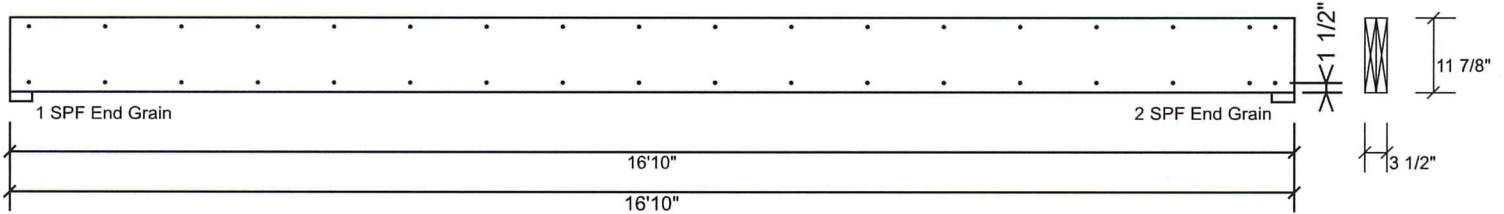
Metsä Wood
3071 Commerce Dr, Suite E
Fort Gratiot, MI 48059
(800) 622-5850
www.metsawood.com/us
ICC-ES: ESR-3633

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS



GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level


Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals
Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

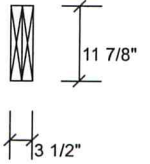
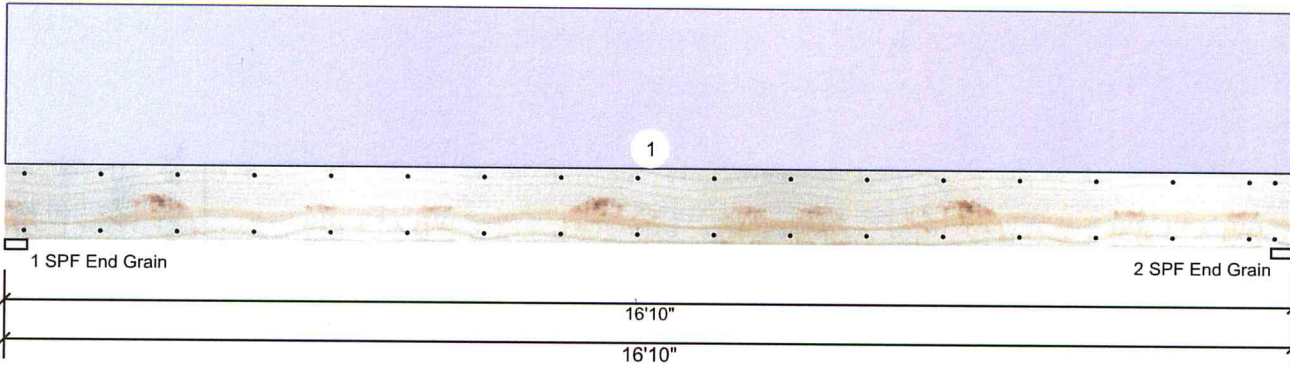
Manufacturer Info

 Metsä Wood
 3071 Commerce Dr, Suite E
 Fort Gratiot, MI 48059
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

 Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS


GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	2182	0	0	0
2	0	2182	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	20%	2182 / 0	2182	Uniform	D
2 - SPF End Grain	3.500"	20%	2182 / 0	2182	Uniform	D

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment Unbraced	8689 ft-lb	8'5"	17919 ft-lb	0.485 (48%)	D	Uniform
Shear	1866 lb	15'7 3/8"	7980 lb	0.234 (23%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.453 (L/433)	8'5 1/16"	0.546 (L/360)	0.830 (83%)	D	Uniform

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 10'9" o.c.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Const.	Comments
1	Uniform Self Weight			Top	0.9 250 PLF 9 PLF	1 0 PLF	1.15 0 PLF	1.6 0 PLF	1.25 0 PLF	

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Lumber**
1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive

Handing & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Metsä Wood
 3071 Commerce Dr, Suite E
 Fort Gratiot, MI 48059
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



Action Summary of Order



ROOF & FLOOR
TRUSSES & BEAMS

ly Road Industrial Park P.O. Box 40408
etteville, N.C. 28309 (910) 864-TRUS
y Office: (919) 816-0105

REQ. QUOTE DATE	/ /	ORDER #	J0320-1195
ORDER DATE	03/13/20	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	0000007060
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Ben Stout	INVOICE #	
COUNTY	Harnett Co	TERMS	
SUPERINTENDANT	Ben Stout	SALES REP	Marshall Naylor
JOBSITE PHONE #	(910) 476-4502	SALES AREA	Curtis Quick

Benjamin Stout Real Estate PO Box 53798 Fayetteville, NC 28305 (910) 476-4502	JOB NAME: Lot 38 Blackberry Manor MODEL: Roof TAG: The Reedsville DELIVERY INSTRUCTIONS:	LOT # 38 SUBDIV: Blackberry Manor JOB CATEGORY: Residential - Roof
	Benjamin Stout 38 Kotata Ave Harnett County, NC	SPECIAL INSTRUCTIONS: 3844 Blossom Rd.

BUILDING DEPARTMENT of Order	OVERHANG INFO		HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	BY	DATE
	END CUT	RETURN			NONE	NONE	LAYOUT		/ /
	PLUMB	NO	GABLE STUDS	16 IN. OC			CUTTING		/ /

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
		TOP	BOT			TOP	BOT	LEFT	RIGHT	
	1 2 Ply	12.00	0.00	FINK C2GDR	18-03-08 18-03-08	2 X 4	2 X 8			Joint 1 5035.7 lbs. -343.7 lbs. Joint 5 5959.9 lbs. -403.1 lbs.
	8	-4.00	0.00	ROOF M1	06-00-00 06-00-00	2 X 4	2 X 4		00-10-08	Joint 2 291.8 lbs. -59.1 lbs. Joint 4 219.4 lbs. -39.5 lbs.
	1	-4.00	0.00	GABLE M1GE	06-00-00 06-00-00	2 X 4	2 X 4		00-10-08	Joint 3 183.3 lbs. -66.6 lbs. Joint 5 300.1 lbs. -111.9 lbs. Joint 6 30.8 lbs. -13.6 lbs.
	5	6.00	0.00	COMMON P1	12-00-00 12-00-00	2 X 4	2 X 4	00-10-08	00-10-08	Joint 2 529.6 lbs. -53.9 lbs. Joint 4 529.6 lbs. -53.9 lbs.
	1	6.00	0.00	GABLE P1GE	12-00-00 12-00-00	2 X 4	2 X 4	00-10-08	00-10-08	Joint 2 529.6 lbs. -136.5 lbs. Joint 4 529.6 lbs. -136.5 lbs.
	1	12.00	0.00	VALLEY VC1	12-02-04 12-02-04	2 X 4	2 X 4			Joint 1 111.4 lbs. -59.7 lbs. Joint 5 91.0 lbs. -37.0 lbs. Joint 6 338.0 lbs. -166.6 lbs. Joint 7 223.5 lbs. 46.8 lbs. Joint 8 338.3 lbs. -166.7 lbs.
	1	12.00	0.00	VALLEY VC2	08-02-04 08-02-04	2 X 4	2 X 4			Joint 1 182.3 lbs. -35.3 lbs. Joint 3 182.3 lbs. -35.3 lbs. Joint 4 234.1 lbs. 21.5 lbs.
	1	12.00	0.00	VALLEY VC3	04-02-04 04-02-04	2 X 4	2 X 4			Joint 1 84.9 lbs. -16.4 lbs. Joint 3 84.8 lbs. -16.4 lbs. Joint 4 109.0 lbs. 10.0 lbs.

TEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
9	Hangers	HUS26			USP (HUS26)

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
 1700 Industrial Park P.O. Box 40408
 Fayetteville, N.C. 28309 (910) 864-TRUS
 My Office: (919) 816-0105

REQ. QUOTE DATE	/ /	ORDER #	J0320-1195
ORDER DATE	03/13/20	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	0000007060
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Ben Stout	INVOICE #	
COUNTY	Harnett Co	TERMS	
SUPERINTENDANT	Ben Stout	SALES REP	Marshall Naylor
JOBSITE PHONE #	(910) 476-4502	SALES AREA	Curtis Quick

Benjamin Stout Real Estate PO Box 53798 Fayetteville, NC 28305 (910) 476-4502	JOB NAME: Lot 38 Blackberry Manor MODEL: Roof TAG: The Reedsville DELIVERY INSTRUCTIONS:	LOT # 38 SUBDIV: Blackberry Manor JOB CATEGORY: Residential - Roof
	SPECIAL INSTRUCTIONS: 3844 Blossom Rd.	
Benjamin Stout 38 Kotata Ave Harnett County, NC	PLAN SEAL DATE: N/A	

BUILDING DEPARTMENT of Order	OVERHANG INFO	HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	/ /
	END CUT	RETURN		NONE	NONE	LAYOUT	/ /
	PLUMB	NO	GABLE STUDS			16 IN. OC	CUTTING

LOADING INFORMATION	TCDL-TCDL-BCLL-BCDL 20.0,10.0,0.0,10.0	STRESS INCR. 1.15	ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)
----------------------------	---	----------------------	---

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
		TOP	BOT			TOP	BOT	LEFT	RIGHT	
	2	12.00	0.00	COMMON A1	25-00-00 25-00-00	2 X 4	2 X 6	00-10-08	00-10-08	Joint 2 Joint 8 1498.1 lbs. 1498.1 lbs. -68.2 lbs. -68.2 lbs.
	1	12.00	0.00	GABLE A1GE	25-00-00 25-00-00	2 X 4	2 X 6	00-10-08	00-10-08	Joint 2 Joint 16 Joint 18 Joint 19 Joint 20 353.3 lbs. 319.3 lbs. 248.9 lbs. 220.2 lbs. 290.1 lbs. -138.4 lbs. -88.0 lbs. -236.0 lbs. -129.0 lbs. -144.9 lbs.
	3	12.00	0.00	COMMON A2	25-00-00 25-00-00	2 X 4	2 X 6	00-10-08	00-10-08	Joint 2 Joint 10 826.8 lbs. 2204.7 lbs. -39.5 lbs. -99.7 lbs.
	5	12.00	0.00	COMMON A2A	25-00-00 25-00-00	2 X 4	2 X 6	00-10-08		Joint 2 Joint 9 835.7 lbs. 2154.8 lbs. -40.5 lbs. -87.1 lbs.
	9	12.00	0.00	COMMON A3	23-09-00 23-09-00	2 X 4	2 X 6	00-10-08		Joint 2 Joint 10 1374.0 lbs. 1125.0 lbs. -63.3 lbs. -63.6 lbs.
	1	12.00	0.00	COMMON A3GE	23-09-00 23-09-00	2 X 4	2 X 6	00-10-08		Joint 2 Joint 18 Joint 19 Joint 20 Joint 21 357.2 lbs. 298.3 lbs. 234.6 lbs. 235.7 lbs. 285.9 lbs. -274.7 lbs. -125.9 lbs. -352.7 lbs. -127.2 lbs. -144.1 lbs.
	2	12.00	0.00	ATTIC B1	22-00-00 21-11-00	2 X	2 X 10	00-11-00	00-11-00	Joint 2 Joint 12 1438.3 lbs. 1438.3 lbs. 19.1 lbs. 19.1 lbs.
	2	12.00	0.00	ATTIC B2	22-00-00 21-11-08	2 X	2 X 10		00-11-00	Joint 1 Joint 11 1413.1 lbs. 1448.1 lbs. 140.1 lbs. 138.5 lbs.
	3	12.00	0.00	ATTIC B3	21-08-08 21-08-00	2 X	2 X 10	00-03-08	00-11-00	Joint 1 Joint 10 1413.7 lbs. 1426.5 lbs. 141.8 lbs. 136.3 lbs.
	2	12.00	0.00	QUEENPOST C1	18-03-08 18-03-08	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 Joint 6 774.3 lbs. 774.3 lbs. -52.0 lbs. -52.0 lbs.
	1	12.00	0.00	GABLE C1GE	18-03-08 18-03-08	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 Joint 12 Joint 14 Joint 15 Joint 16 280.9 lbs. 246.8 lbs. 161.4 lbs. 189.9 lbs. 238.8 lbs. -128.1 lbs. -77.7 lbs. -158.3 lbs. -147.1 lbs. -157.1 lbs.

WARNING: CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF THE BUILDING COMPONENTS TO BE INCORPORATED INTO THE BUILDING PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF THE BUILDING COMPONENTS TO BE INCORPORATED INTO THE BUILDING PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF THE BUILDING COMPONENTS TO BE INCORPORATED INTO THE BUILDING PERMITS.

Curtis Quick
Curtis Quick

LOAD CHART FOR JACK STUDS

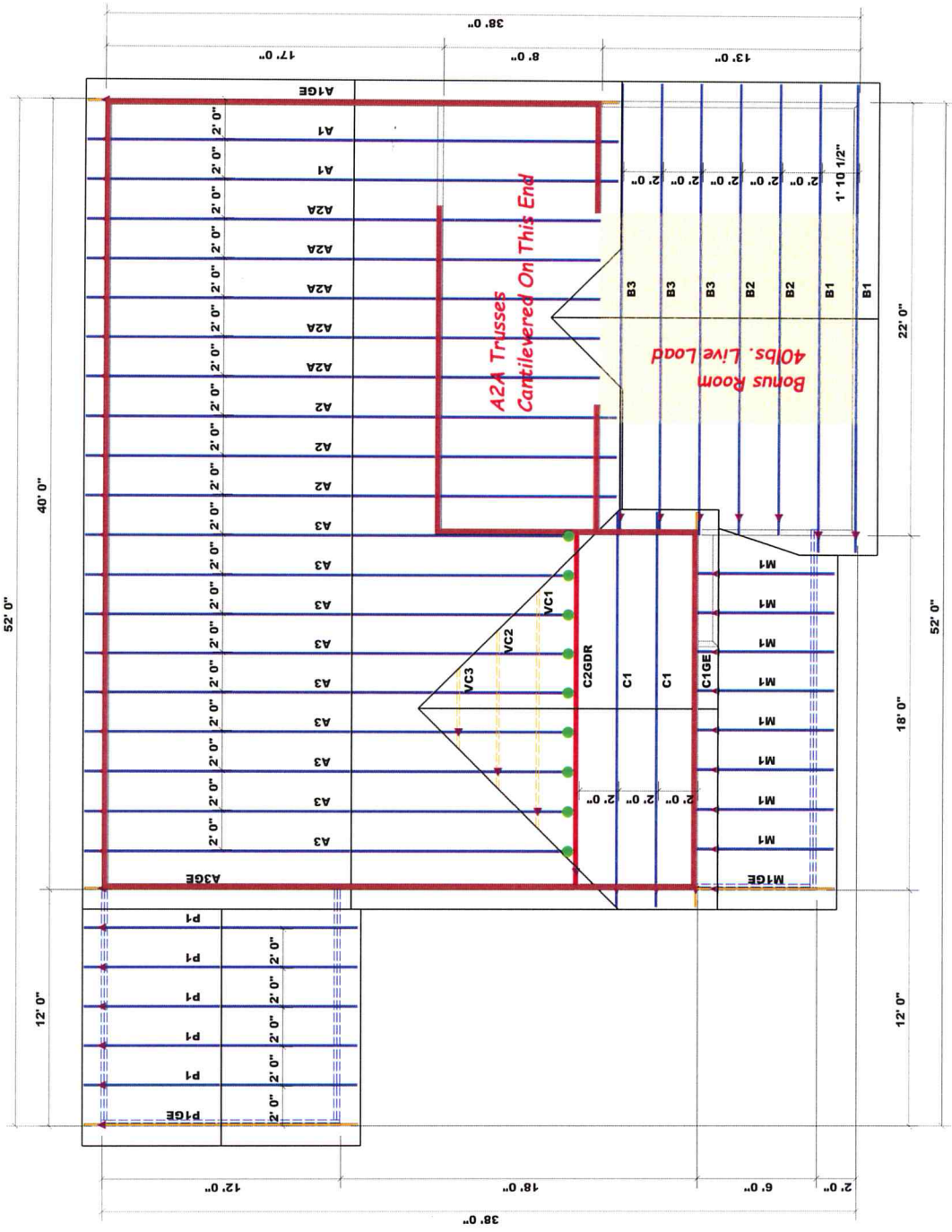
NUMBER OF JACK STUDS REQUIRED AT END OF MEMBER

MEMBER	MEMBER SIZE	MEMBER WEIGHT (LBS)	MEMBER WEIGHT (KIPS)
1700	1	2550	1
3400	2	5100	2
5100	3	7650	3
6800	4	10200	4
8500	5	12750	5
10200	6	15300	6
11900	7	17850	7
13600	8	20400	8
15300	9	22950	9

CITY / CO.	Harnett County / Harnett Co
ADDRESS	38 Kotata Ave
MODEL	Roof
DATE REV.	//
DRAWN BY	Curtis Quick
SALES REP.	Marshall Naylor

BUILDER	Benjamin Stout
JOB NAME	Lot 38 Blackberry Manor
PLAN	The Reedsville
SEAL DATE	N/A
QUOTE #	Quote #
JOB #	J0320-1195

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. IT IS NOT TO BE USED FOR PERMITS OR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF THE BUILDING COMPONENTS TO BE INCORPORATED INTO THE BUILDING PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF THE BUILDING COMPONENTS TO BE INCORPORATED INTO THE BUILDING PERMITS.



HANGER LEGEND

● = USP HUS26 / Single 2x Hanger

Truss Placement Plan
 SCALE: 1/4" = 1'

Hatch Legend

■ 2nd Floor Bearing Walls @ 8' 1-1/2"

▲ = Denotes Left End of Truss
 (Reference Engineered Truss Drawing)
 Do Not Erect Trusses Backwards

Warning: Trusses shall be erected on a level surface. The contractor shall refer to the specifications for details on the erection and bracing of the trusses. The maximum live load shall not exceed 40 lbs/ft². The maximum snow load shall not exceed 20 lbs/ft². The maximum wind speed shall not exceed 70 mph. The contractor shall be responsible for obtaining all necessary permits and approvals. A registered design professional in the State of North Carolina shall review and seal this drawing. The contractor shall be responsible for all construction details not shown on this drawing.

Separation: *Curtis Quick*
 Curtis Quick

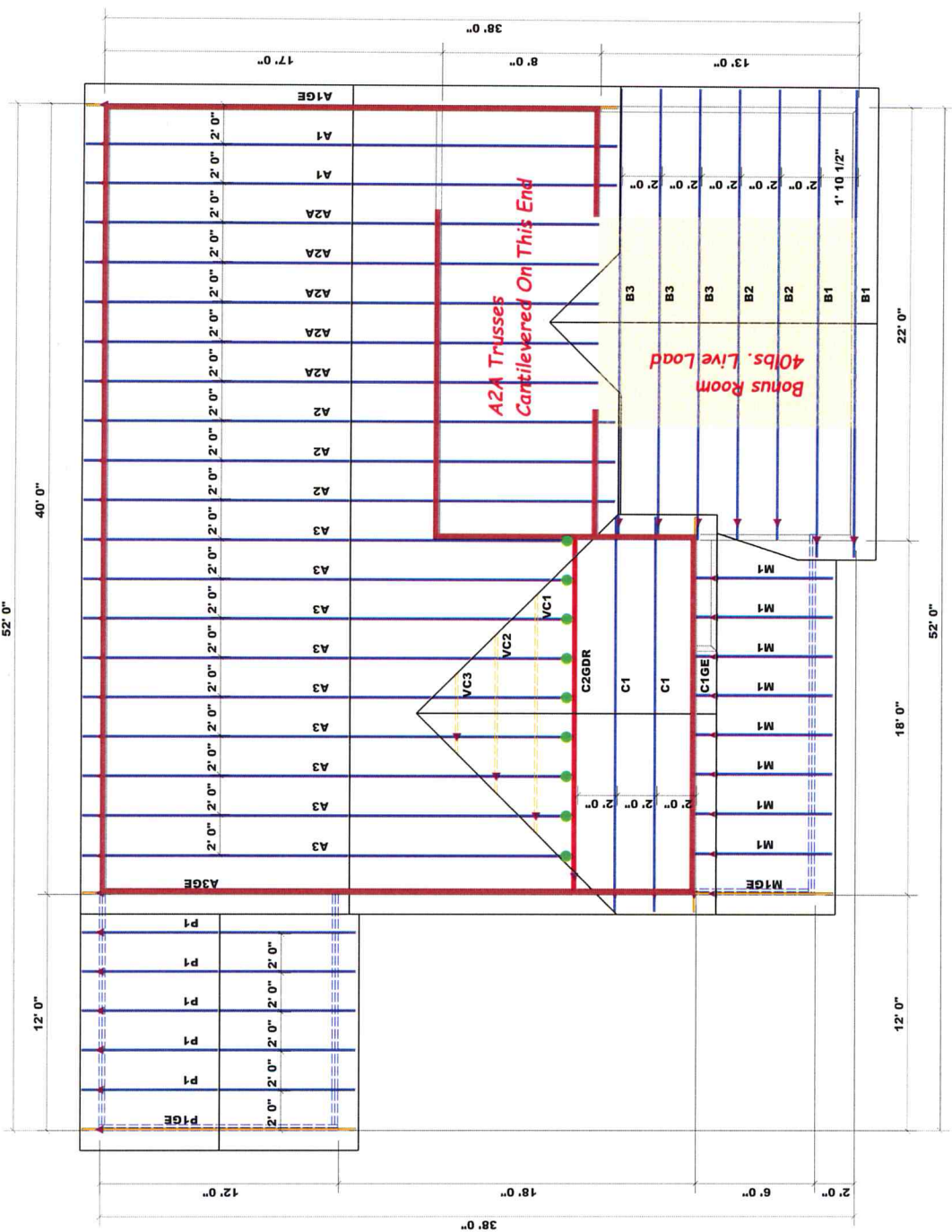
LOAD CHART FOR JACK STUDS
 BASED ON 2x12 JACK STUDS
 NUMBER OF JACK STUDS REQUIRED @ 4' ON C

SPAN (ft)	NO. JACK STUDS	SPAN (ft)	NO. JACK STUDS
17'00"	1	34'00"	2
29'50"	2	48'00"	3
34'00"	2	50'00"	3
51'00"	3	79'50"	5
85'00"	5	102'00"	6
89'00"	5	136'00"	8
102'00"	6	153'00"	9
119'00"	7		
136'00"	8		
153'00"	9		

CITY / CO.	Harnett County / Harnett Co
ADDRESS	38 Korta Ave
MODEL	Roof
DATE REV.	/ /
DRAWN BY	Curtis Quick
SALES REP.	Marshall Naylor

BUILDER	Benjamin Stout
JOB NAME	Lot 38 Blackberry Manor
PLAN	The Reedsville
SEAL DATE	N/A
QUOTE #	#
JOB #	J0320-1195

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. Components to be incorporated into the building design shall be the responsibility of the architect. The contractor shall be responsible for obtaining all necessary permits and approvals. A registered design professional in the State of North Carolina shall review and seal this drawing. The contractor shall be responsible for all construction details not shown on this drawing.



HANGER LEGEND

●	= USP HUS26 / Single 2x Hanger
---	--------------------------------

Truss Placement Plan
 SCALE: 1/4" = 1'

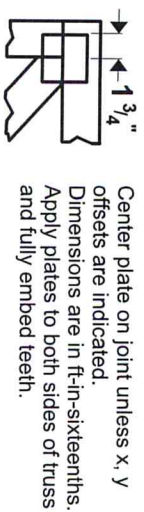
Hatch Legend

■	2nd Floor Bearing Walls @ 8' 1-1/2"
---	-------------------------------------

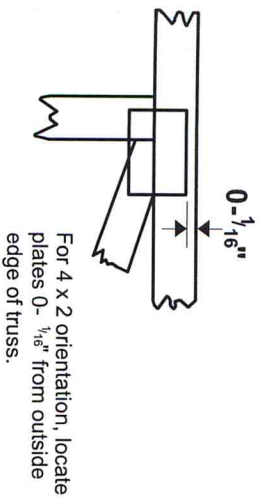
▲ = Denotes Left End of Truss
 (Reference Engineered Truss Drawing)
 Do Not Erect Trusses Backwards

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of trusses and fully embed teeth.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MITek 20/20** software or upon request.

PLATE SIZE

4 X 4

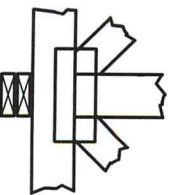
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

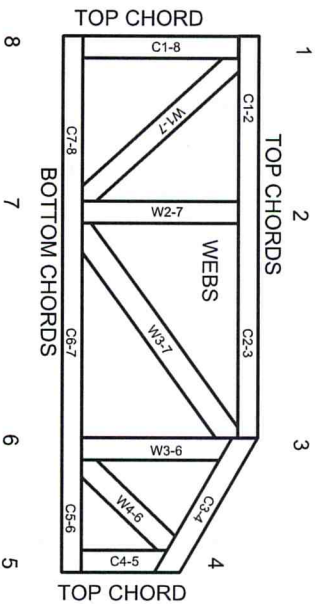


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-EES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

© 2012 MITek® All Rights Reserved



MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.

Action Summary of Order



ROOF & FLOOR
TRUSSES & BEAMS

1500 Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS
Fax Office: (919) 816-0105

REQ. QUOTE DATE	/ /	ORDER #	J0320-1196
ORDER DATE	03/13/20	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	0000007060
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY		INVOICE #	
COUNTY	Harnett	TERMS	
SUPERINTENDANT	Ben Stout	SALES REP	Marshall Naylor
JOBSITE PHONE #	(910) 476-4502	SALES AREA	Curtis Quick

Benjamin Stout Real Estate PO Box 53798 Fayetteville, NC 28305 (910) 476-4502	JOB NAME: Lot 38 Blackberry Manor MODEL: Floor TAG: The Reedsville DELIVERY INSTRUCTIONS:	LOT # 38 SUBDIV: Blackberry Manor JOB CATEGORY: Residential - Floor
	Benjamin Stout 38 Kotata Ave Harnett County, NC	SPECIAL INSTRUCTIONS: Like Lot 3 Barrington Place (J1119-5123)

BUILDING DEPARTMENT for Order	OVERHANG INFO END CUT RETURN PLUMB NO	HEEL HEIGHT 00-04-05 GABLE STUDS 16 IN. OC	REQ. LAYOUTS NONE	REQ. ENGINEERING NONE	QUOTE LAYOUT mn / / CUTTING / /
---	--	---	-----------------------------	---------------------------------	---

FLOOR TRUSSES LOADING INFORMATION TOLL-TCDL-BCLL-BCDL STRESS INCR. 40.0,10.0,0.0,5.0 1.00	FLOOR TRUSS SPACING: 24.0 IN. O.C. (TYP.)
---	--

FLOOR PROFILE	QTY PLY	DEPTH ID	BASE SPAN	O/A SPAN	END TYPE		INT BEARING		REACTIONS
					LEFT	RIGHT	SIZE	LOCATION	
	1	01-02-00 KW1	29-11-00	29-11-00					Joint 26: 8.3 lbs. Joint 27: 104.1 lbs. Joint 28: 153.0 lbs. Joint 29: 145.0 lbs. Joint 30: 147.1 lbs.
	1	01-02-00 KW2	24-06-04	24-06-04					Joint 22: 9.9 lbs. Joint 23: 102.2 lbs. Joint 24: 152.7 lbs. Joint 25: 145.1 lbs. Joint 26: 147.1 lbs.

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
12	Hangers, USP	JUS414			SIMPSON (LUS414)
2	LVL Beams (Sized)	LVL, 1-3/4" x 9-1/4" (S)	09-00-00		BM2
2	LVL Beams (Sized)	LVL, 1-3/4" x 9-1/4" (S)	07-00-00		BM4
3	LVL Beams (Sized)	LVL, 1-3/4" x 14" (S)	22-00-00		BM1
2	LVL Beams (Sized)	LVL, 1-3/4" x 14" (S)	07-00-00		BM3
3	LVL Beams (Sized)	LVL, 1-3/4" x 18" (S)	21-00-00		GDH (Side Load)
4	Hangers, USP	MSH422			SIMPSON (THA422)

Action Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
 1515 S. Road Industrial Park P.O. Box 40408
 Fayetteville, N.C. 28309 (910) 864-TRUS
 My Office: (919) 816-0105

REQ. QUOTE DATE	/ /	ORDER #	J0320-1196
ORDER DATE	03/13/20	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	0000007060
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY		INVOICE #	
COUNTY	Harnett	TERMS	
SUPERINTENDANT	Ben Stout	SALES REP	Marshall Naylor
JOBSITE PHONE #	(910) 476-4502	SALES AREA	Curtis Quick

Benjamin Stout Real Estate PO Box 53798 Fayetteville, NC 28305 (910) 476-4502	JOB NAME: Lot 38 Blackberry Manor MODEL: Floor DELIVERY INSTRUCTIONS:	LOT # 38 SUBDIV: Blackberry Manor TAG: The Reedsville JOB CATEGORY: Residential - Floor
	Benjamin Stout 38 Kotata Ave Harnett County, NC	SPECIAL INSTRUCTIONS: Like Lot 3 Barrington Place (J1119-5123)
PLAN SEAL DATE: N/A		

BUILDING DEPARTMENT for Order	OVERHANG INFO	HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	/ /
	END CUT	RETURN		NONE	NONE	LAYOUT	mn
	PLUMB	NO	GABLE STUDS			16 IN. OC	CUTTING

FLOOR TRUSSES **LOADING INFORMATION** TCLL-TCDL-BCLL-BCDL STRESS INCR. 40.0,10.0,0.0,5.0 1.00 **FLOOR TRUSS SPACING: 24.0 IN. O.C. (TYP.)**

FLOOR PROFILE	QTY PLY	DEPTH ID	BASE SPAN	O/A SPAN	END TYPE		INT BEARING		REACTIONS					
					LEFT	RIGHT	SIZE	LOCATION						
	6	01-02-00 F01	29-11-00	29-11-00					Joint 15 851.2 lbs. 201.7 lbs.	Joint 21 1881.8 lbs. 1073.4 lbs.	Joint 24 622.4 lbs. 76.8 lbs.			
	1	01-02-00 F02	29-08-00	29-08-00					Joint 15 846.1 lbs. 199.5 lbs.	Joint 21 1861.5 lbs. 1068.1 lbs.	Joint 24 623.7 lbs. 81.4 lbs.			
	1	01-02-00 F02G	29-08-00	29-08-00					Joint 15 1096.9 lbs. 452.0 lbs.	Joint 21 2345.2 lbs. 1648.7 lbs.	Joint 24 592.0 lbs. 59.7 lbs.			
	10	01-02-00 F03	24-06-04	24-06-04					Joint 13 375.1 lbs. -11.9 lbs.	Joint 16 1529.8 lbs. 728.5 lbs.	Joint 22 865.5 lbs. 230.0 lbs.			
	1	01-02-00 F03G	24-06-04	24-06-04					Joint 16 31.6 lbs. 31.6 lbs.	Joint 17 132.5 lbs. 132.3 lbs.	Joint 18 152.9 lbs. 152.2 lbs.	Joint 19 138.0 lbs. 135.6 lbs.	Joint 20 -316.9 lbs. -620.3 lbs.	
	1	01-02-00 F04	14-08-00	14-08-00					Joint 8 792.9 lbs. 361.2 lbs.	Joint 12 786.7 lbs. 451.3 lbs.				
	1	01-02-00 F05	04-03-00	04-03-00					Joint 9 213.1 lbs. 122.6 lbs.	Joint 10 213.1 lbs. 122.6 lbs.				
	1	01-02-00 F06G	03-04-08	03-04-08					Joint 4 518.3 lbs.	Joint 5 518.3 lbs.				
	1	01-02-00 F07G	03-08-00	03-08-00					Joint 4 269.0 lbs.	Joint 5 303.1 lbs.				