PREPARED 4/10/13, 14:57:49 INSPECTION TICKET INSPECTOR: IVR Harnett County

PAGE DATE 4/11/13

SUBDIV: STONE CROSS SECT 2 PH2A&B ADDRESS . : 97 STONEHURST DR

PHONE: (919) 460-2969 CONTRACTOR : D.R. HORTON INC OWNER . . : DR HORTON INC PHONE: (919) 460-2933

PARCEL . . : 01-0535-14- -0100- -33-

APPL NUMBER: 11-50026922 CP NEW RESIDENTIAL (SFD) DIRECTIONS: T/S: 06/16/2011 09:13 AM VBROWN ----

STONEHURST DRIVE, STONE CROSS #103. 210S, RIGHT ON OVERHILLS RD GO 4MI, RIGHT ON COBBLESTONE DR, LEFT ON

STONEHURST DRIVE

STRUCTURE: 000 000 38X46 3BDR MONO W/ GARAGE

FLOOD ZONE . . . : FLOOD ZONE X

BEDROOMS 4.00 PROPOSED USE SFD WATER SUPPLY : COUNTY SEPTIC - EXISTING? . . . : NEW SEPTIC

PERMIT: CPSF 00 CP * SFD

REQUESTED INSP DESCRIPTION TYP/SQ COMPLETED RESULT RESULTS/COMMENTS

______ R*PLUMB UNDER SLAB VRU #: 002363182 4/09/13 JH

P309 01 4/09/13 AP

R*BLDG MONO SLAB/TEMP SVC POLE VRU #: 002364933 B114 01 4/11/13

4-11-13 APTE

T-pole passed COMMENTS AND NOTES ----- As requested by the builder, a representative of Tyndall Engineering & Design, PA (TE&D) was on-site - 4/1:15 to observe the materials / conditions of the existing / exposed foundation excavations for the lot referenced above. The in-situ soils were qualitatively probed and subjected to Static Cone Penetrometer (SCP) testing. Based on the resistance values yielded, the existing / exposed excavations were noted adequate to support the anticipated loading conditions (i.e. 2000psf).

Based on our observations, analysis, and the results of our field testing, the materials / conditions of the existing foundation excavations should be structurally adequate to support the anticipated loading conditions (i.e. 2000psf).

We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely, Tyndall Engineering & Design

Eric Topodal

Eric Tyndall

	TYNDALL ENGINEERING & DESIGN, P.A.
--	------------------------------------

† 919 773-1200 = # 919 773-9658 69 Shipwash Drive • Garner • North Carolina = 27529 www.tyndallengineering.com

JOB	D.K. He	orton		
LOCATION	L103 57	one C	035	
CALCULATED BY	ET	DATE	4-11-13	
SHEET NO.			OF /	
<u></u>				_
SCALE	<u> </u>			_

PREPARED 5/07/13, 14:04:02 Harnett County

INSPECTION TICKET

INSPECTOR: IVR

PAGE

DATE

5/08/13

ADDRESS . : 97 STONEHURST DR

SUBDIV: STONE CROSS SECT 2 PH2A&B

CONTRACTOR : D.R. HORTON INC

PHONE: (919) 460-2969

PHONE: (919) 460-2933

OWNER . . : DR HORTON TNC

PARCEL . . : 01-0535-14- -0100- -33-

APPL NUMBER: 11-50026922 CP NEW RESIDENTIAL (SFD)

DIRECTIONS: T/S: 06/16/2011 09:13 AM VBROWN ----

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FLOOD ZONE . . . : FLOOD ZONE X

BEDROOMS 4.00 # BEDROOMS : 4.00 PROPOSED USE : SFD SEPTIC - EXISTING? . . . : NEW SEPTIC WATER SUPPLY : COUNTY

PERMIT:	CPSF 00 CP *	SFD	
	REQUESTED	INSP	DESCRIPTION
TYP/SQ	COMPLETED	RESULT	RESULTS/COMMENTS
P309 01	4/09/13	JH	R*PLUMB UNDER SLAB VRU #: 002363182
	4/09/13	AP	
B114 01	4/11/13	JH	R*BLDG MONO SLAB/TEMP SVC POLE VRU #: 002364933
	4/11/13	AP	T-POLE PASSED
H824 01	5/02/13	OΤ	ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 002377034
	5/02/13	AP	T/S: 05/03/2013 11:08 AM SSTEWART
			T/S: 05/03/2013 11:08 AM SSTEWART
R425 01	5/06/13	JН	FOUR TRADE ROUGH IN VRU #: 002376879
	5/06/13	DP	Mail all holes in structual nail guard over electrical
			pannel in garage (A) Missing air barrier under water heater
			stand IPlans show a 6sc @ each end of 24" lvl in
			garage. Need structual nail guard on both sides of 3 pipe
			2 water heater in garage @ top plate. (M) Missing anchor bolts
			throughout house per code. Missing nails in I joist
			hangers under back side of stairs. #Fire caulk wire @ top
			plate over receptacle in spare bathroom. Bolt lvl in
			kitchen per plans with through bolts 1/2" 💋 Missing
			hurricaine straps on back porch. 10) Fire caulk wires in top
			plate to right of refrig. Furr out top plate @ refrig &
			fire caulk cracks. Missing air barrier & blocking in rec
			room over garage per code. 1/2) Missing nails in roof truss
			hangers in rec room.14) Missing stud to right of master bath
			door.STOP INSPECTION @ MASTER BATH DOOR TO MANY VIOLATIONS
			DO NOT THEFT OF STREET

DO NOT INSULATE OR SIDE

PAY \$50 RE FEE

A814 01 5/08/13 TI ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002378255

5/08/13 R425 02

FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 002378248



8600 'D' Jersey Ct Raleigh, NC 27617

919.422.8934 866.792.5107

Firm Lic. No: P-0961

May 6, 2013

DR Horton 2000 Aerial Center PKWY STE 110 Morrisville, NC 27560 ekhedden@drhorton.com

Subject: Trusslok (Fastenmaster) LVL Beam Fastening

Location: All Projects North Carolina

Project No: EBS130449 Review Date: 5/6/2013

We are pleased to provide the structural evaluation report for the subject and location referenced above. The following comments and/or recommendations are outlined below to meet or exceed the NC Building Code.

Observations / Recommendations:

Many plans call for 1/2" thru bolt attachment to secure 4 ply LVL beams together. Contractor has requested a standard substitution schedule for trusslok fasteners to be used in lieu of the plan specified thru bolts.

Contractor may use the following trusslok fasteners and spacing as described below for side or top loaded beams. Follow manufacturers instructions for edge distance and stagger spacing requirements (see attached bulletin).

Trusslok Fastener Schedule (thru bolt replacement)

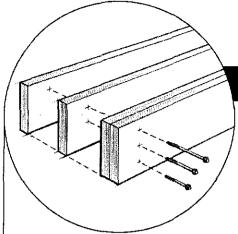
Floor Beams Garage Center Beams

(3) 6.75" @ 24" o.c.

(3) 6.75" @ 12" o.c.

If you have any questions or if I can be of further assistance to you on this project, please contact me at (919) 559-8275.

Respectfully Submitted, Elijah B. Smith, PE JDS Consulting & Design, PLLC



Fasten Master.

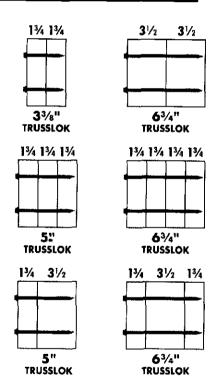
Engineered Wood Fastene

MULTIPLE MEMBER ENGINEERED WOOD BEAMS

CONNECTION DETAILS

The TrussLok Engineered Wood Fastener has been designed specifically for use in joining multiple-ply engineered wood beams (LVL, LSL & PSL). Using a standard corded or cordless ½" low speed/high torque drill, install screws into the side of the outermost ply. As the thread fully engages the final ply, allow the underside of the washer head to pull the plies firmly together. Do not attempt to countersink the fasteners as this may damage the beam. Refer to the information in this bulletin for proper fastener size selection and fastening pattern.

FASTENER SIZE SELECTION



FASTENER IDENTIFICATION

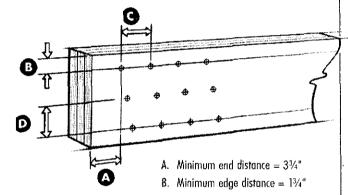
For easier selection and postinstallation inspection, all TrussLok fasteners carry an identifying head marking.

TrussLok 3¾" F3.3

TrussLok 5". F5.0

TrussLok 6¾" F6.7

MINIMUM SPACING REQUIREMENTS



- C. Minimum spacing between fasteners in a row = $3\frac{1}{2}$ "
- D. Minimum spacing between rows of fasteners = 54"

GENERAL GUIDELINES

- Beams wider than 7" require special consideration by the design professional. The
 values on the next page do not apply.
- Excessively warped or curved LVL should never be forced into alignment by use of clamps, screws or bolts as splitting may occur, potentially decreasing the carrying capacity of the beam.
- To avoid damaging the beam, fastener heads must not be countersunk. However,
 if the TrussLok head needs to be brought flush, prepare the outermost ply with
 a countersink before installing. Using a ½" spade bit, drill a ¼" deep well into
 the LVL in the desired fastening pattern, then install the TrussLok flush.
- Not designed for use with dimensional lumber. Use FastenMaster's TrussLok-Z
 fastener for multiple member dimensional wood beams.
- A qualified designer or engineer should always be consulted for critical assemblies and fastening requirements.

800-518-3569



Effective until December 31, 2013. Updated information must be obtained after this date.

153 BOWLES ROAD, AGAWAM, MA 01001

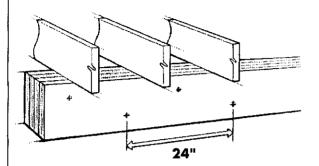
413.789.0252

WWW.FASTENMASTER.COM

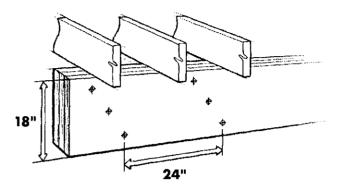
FASTENING PATTERN

Top Loaded Beams

Where all floor joists sit on the beam, fasteners should be spaced two every 24" on center in a staggered pattern as shown.



For beam depths of 18" or more, this pattern should be increased to three fasteners every 24" on center.

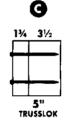


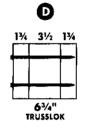
Side Loaded Beams

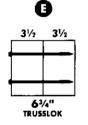
Where floor joists are joined to the side of the beam (typically using a joist hanger), this load chart must be used to establish the proper pattern based on the design load as determined by the engineer and noted on the plans.

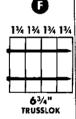
- Allowable loads are derived from tested fastener values as reported in ESR #1078 (see www.icc-es.org).
- A specific gravity of 0.5 was used for all engineered wood (EW) calculations.
- The uniform loads in this table relate only to the capacity of the fastener to transfer shear loads between plies.
 The capacity of the EW beam may be less and should be checked against the manufacturer's literature.
- Values listed reflect 100% stress level (C_D=1.0). The designer may apply adjustment factors to increase or decrease these loads per 2005 NDS based on conditions for each assembly.
- To minimize rotation, 7" wide bearns shall be side loaded only when loads are applied to both sides of the beam with the lesser loaded side bearing at least 25% of the overall design load.
- 24" on-center connection values may be doubled for 12" on-center spacing.

Assembly Type









	NO of	SPACING						
TRUSSLOK	SCREWS	BETWEEN ROWS	A	В	C	D	E	F
33/8"	2	24"	580		11111		ir Eirl/	54.1
	2	19.2	725	₁	14 B	E 49/1		
	2	16	870					
	3	24"	870		1/		//	17
	3	19.2	1090					
	3	16	1305	/ 3 4				/if if
5"	2	24"	14 mm/	450	450	/ المارة		#10-11/
	2	19.2		560	560			
	2	16		670	670			
	3	24"	#/# *	670	670	//	# / sign	// //
	3	19.2		840	840		7	
	3	16	/2 m	1010	1010	/Herinii	/禮亭道	/hite-iii
6³⁄4"	2	24"		7	5.44	415	620	415
	2	19.2			14/	515	775	515
	2	16	1/5			620	930	620
	3	24"				620	930	620
	3	19.2				775	1165	775
	3	16	13.50			930	1395	930

HENGWOOD (0113)