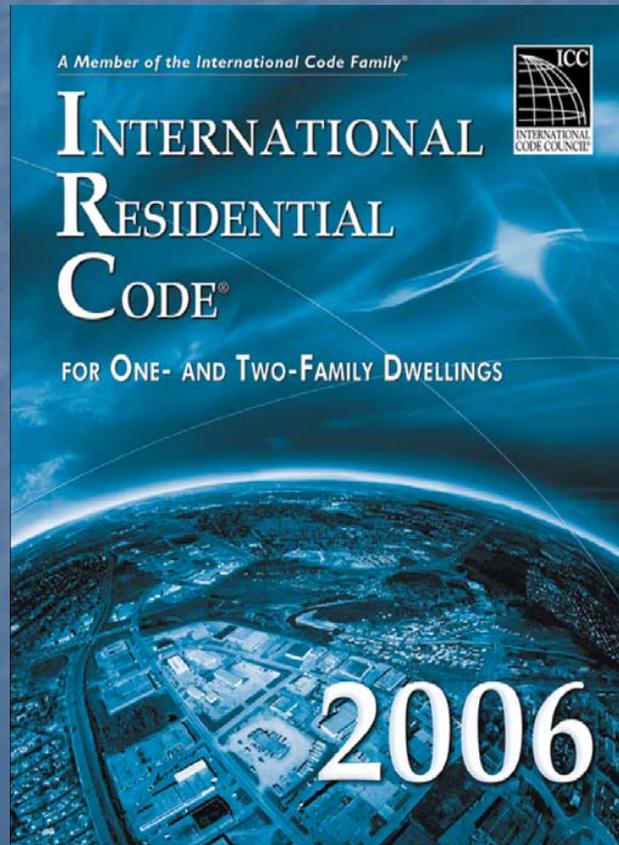


Highlights of ICC 2006

Springettsbury Township

December 8, 2006



Springettsbury Township
Department of Community Development

Disclaimer

All information and discussion presented is for informal purposes only. Not all revisions/changes to the 2006 Code will be covered. It is strongly recommended that the code books are purchased, read and followed.

Outline

- Chapter 2- Definitions
- Chapter 3- Building/Planning
- Chapter 4- Foundations
- Chapter 5- Floors
- Chapter 6- Wall Construction
- Chapter 7- Wall Covering
- Chapter 8- Roof-Ceiling Construction
- Chapter 9- Roof Assemblies

Outline

- Chapter 11- Energy Efficiency
- Chapter 13- General Mechanical Requirements
- Chapter 14- Heating and Cooling Equipment
- Chapter 15- Exhaust Systems
- Chapter 16- Duct Systems
- Chapter 19- Special Fuel-Burning Equipment
- Chapter 20- Boilers and Water Heaters
- Chapter 38- Power and Lighting Distribution

UCC CHANGES

§ 403.46

Changed Uniform Construction Code

- “(e) A building code official may issue a temporary certificate of occupancy for a portion or portions of the building or structure before the completion of the entire work covered by the permit if the portion or portions may be occupied safely. The building code official shall set a time period during which the temporary certificate of occupancy is valid.”

CHAPTER 3

BUILDING/PLANNING

2006 Building/Planning Changes

- Application §301.1, pg. 23
- * Seismic Figure §301.2(2), pg. 31

Seismic Design Categories

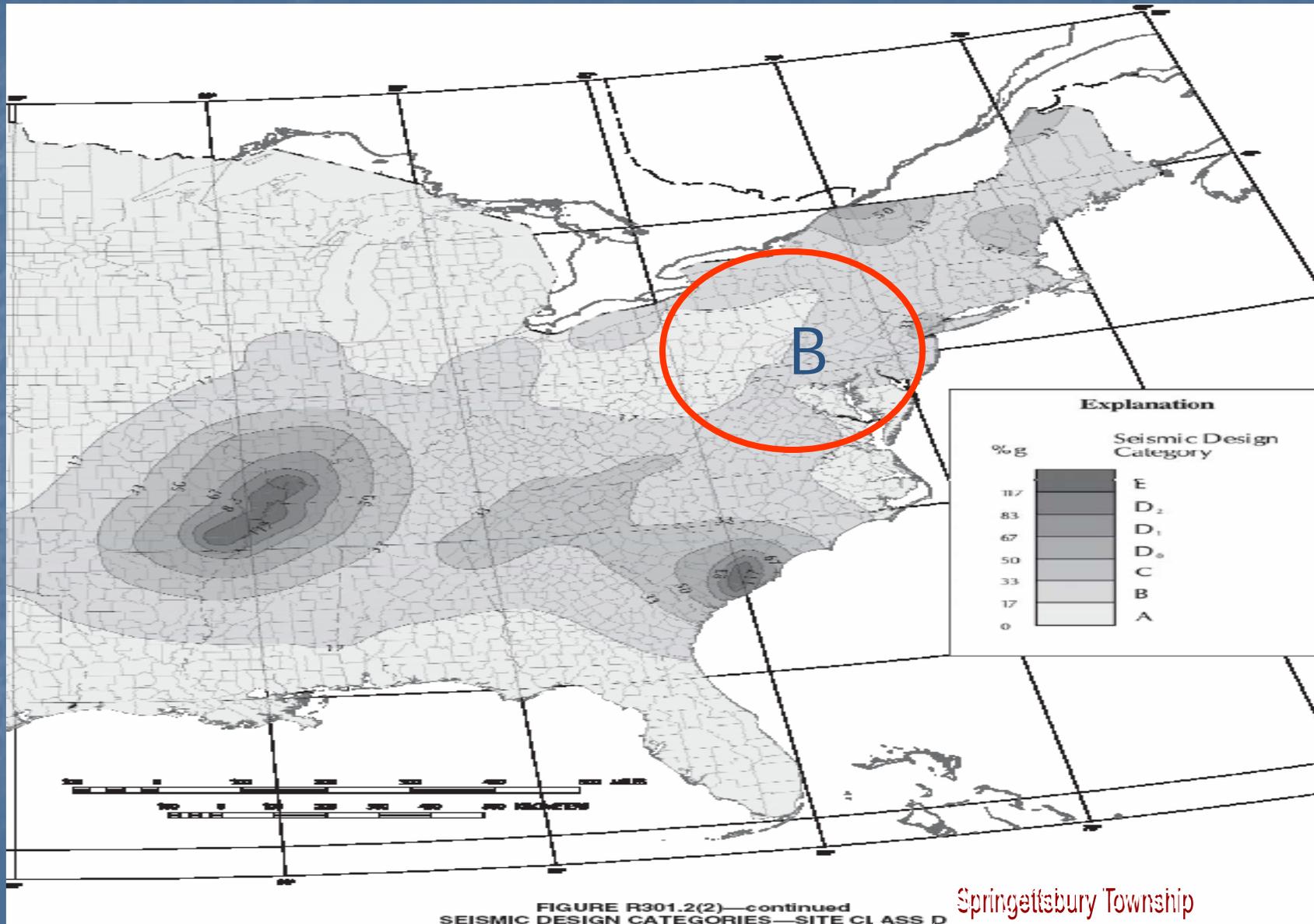


FIGURE R301.2(2)—continued
SEISMIC DESIGN CATEGORIES—SITE CLASS D

2006 Building/Planning Changes

- Application §301.1, pg. 23
- * Seismic Figure §301.2(2), pg. 31
- * Live Loads (Table R301.5 pg.46)
guardrails/handrails/attics

Minimum Uniformly Distributed Live Loads

**TABLE R301.5
MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS
(in pounds per square foot)**

USE	LIVE LOAD
Attics with limited storage ^{b, g, h}	20
Attics without storage ^b	10
Decks ^e	40
Exterior balconies	60
Fire escapes	40
Guardrails and handrails ^d	200 ⁱ
Guardrails in-fill components ^f	50 ⁱ
Passenger vehicle garages ^a	50 ^a
Rooms other than sleeping rooms	40
Sleeping rooms	30
Stairs	40 ^c

For SI: 1 pound per square foot = 0.0479 kPa, 1 square inch = 645 mm²,
1 pound = 4.45 N.

- a. Elevated garage floors shall be capable of supporting a 2,000-pound load applied over a 20-square-inch area.
- b. Attics without storage are those where the maximum clear height between joist and rafter is less than 42 inches, or where there are not two or more adjacent trusses with the same web configuration capable of containing a rectangle 42 inches high by 2 feet wide, or greater, located within the plane of the truss. For attics without storage, this live load need not be assumed to act concurrently with any other live load requirements.
- c. Individual stair treads shall be designed for the uniformly distributed live load or a 300-pound concentrated load acting over an area of 4 square inches, whichever produces the greater stresses.
- d. A single concentrated load applied in any direction at any point along the top.
- e. See Section R502.2.1 for decks attached to exterior walls.
- f. Guard in-fill components (all those except the handrail), balusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 pounds on an area equal to 1 square foot. This load need not be assumed to act concurrently with any other live load requirement.
- g. For attics with limited storage and constructed with trusses, this live load need be applied only to those portions of the bottom chord where there are two or more adjacent trusses with the same web configuration capable of containing a rectangle 42 inches high or greater by 2 feet wide or greater, located within the plane of the truss. The rectangle shall fit between the top of the bottom chord and the bottom of any other truss member, provided that each of the following criteria is met:
 1. The attic area is accessible by a pull-down stairway or framed opening in accordance with Section R807.1; and
 2. The truss has a bottom chord pitch less than 2:12.
- h. Attic spaces served by a fixed stair shall be designed to support the minimum live load specified for sleeping rooms.
- i. Glazing used in handrail assemblies and guards shall be designed with a safety factor of 4. The safety factor shall be applied to each of the concentrated loads applied to the top of the rail, and to the load on the in-fill components. These loads shall be determined independent of one another, and loads are assumed not to occur with any other live load.

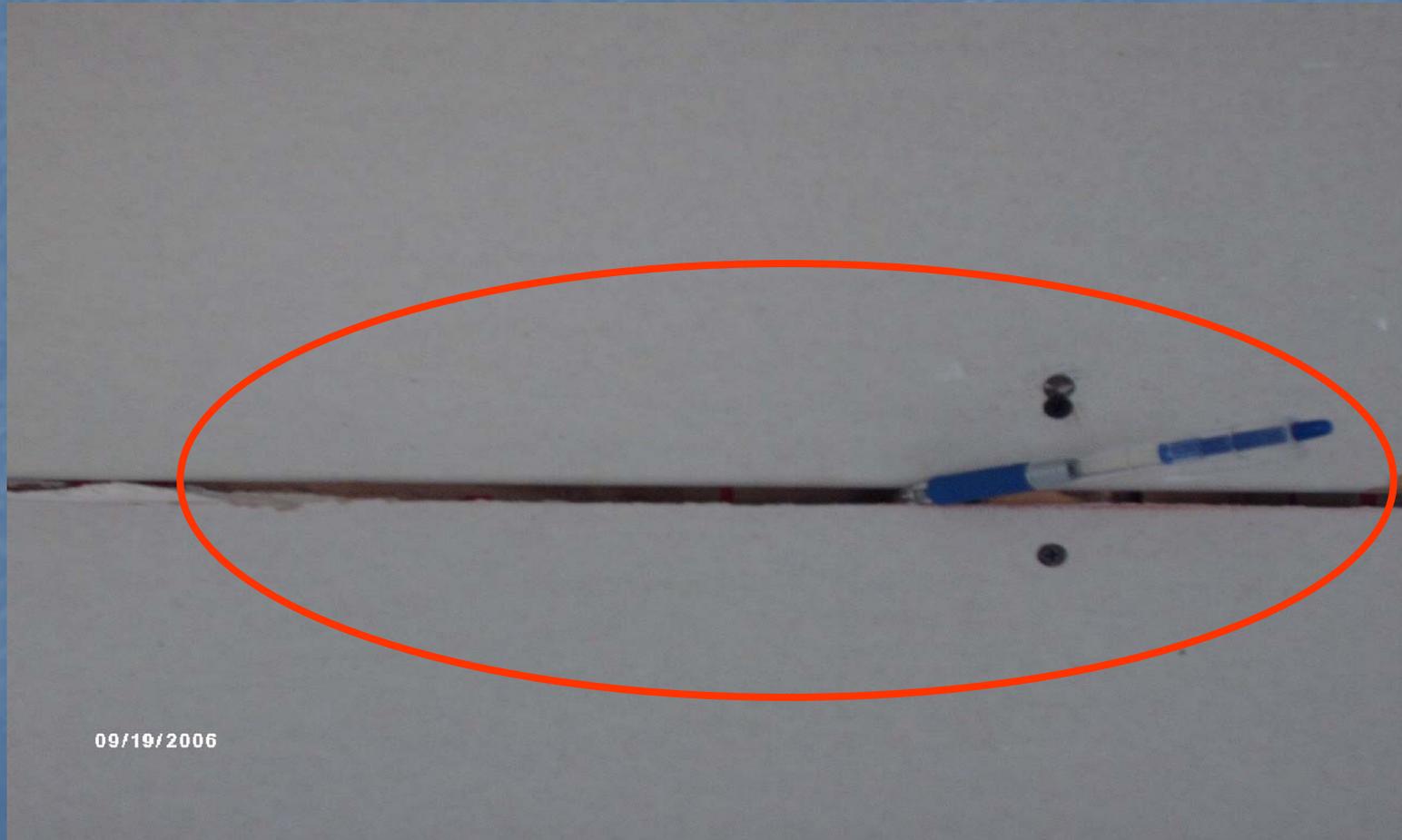
2006 Building/Planning Changes

- Application §301.1, pg. 23
- * Seismic Figure §301.2(2), pg. 31
- * Live Loads (Table R301.5 pg.46)
guardrails/handrails/attics
- Ceiling height (§305.1), pg. 48
- Light activation §303.6.1, pg. 48
- Glazing (§ 308.1, pg 50, Exc. #4, pg 51, Exc. #9.3, pg. 51)

2006 Building/Planning Changes

- *Separation penetrations (§309.1.2), pg. 52

Garage to Dwelling Penetration (Wall)



09/19/2006

Garage to Dwelling Penetration (Wall to Bulkhead)



09/19/2006

2006 Building/Planning Changes

- *Separation penetrations (§309.1.2), pg. 52
- Separation required (§309.2), pg. 52

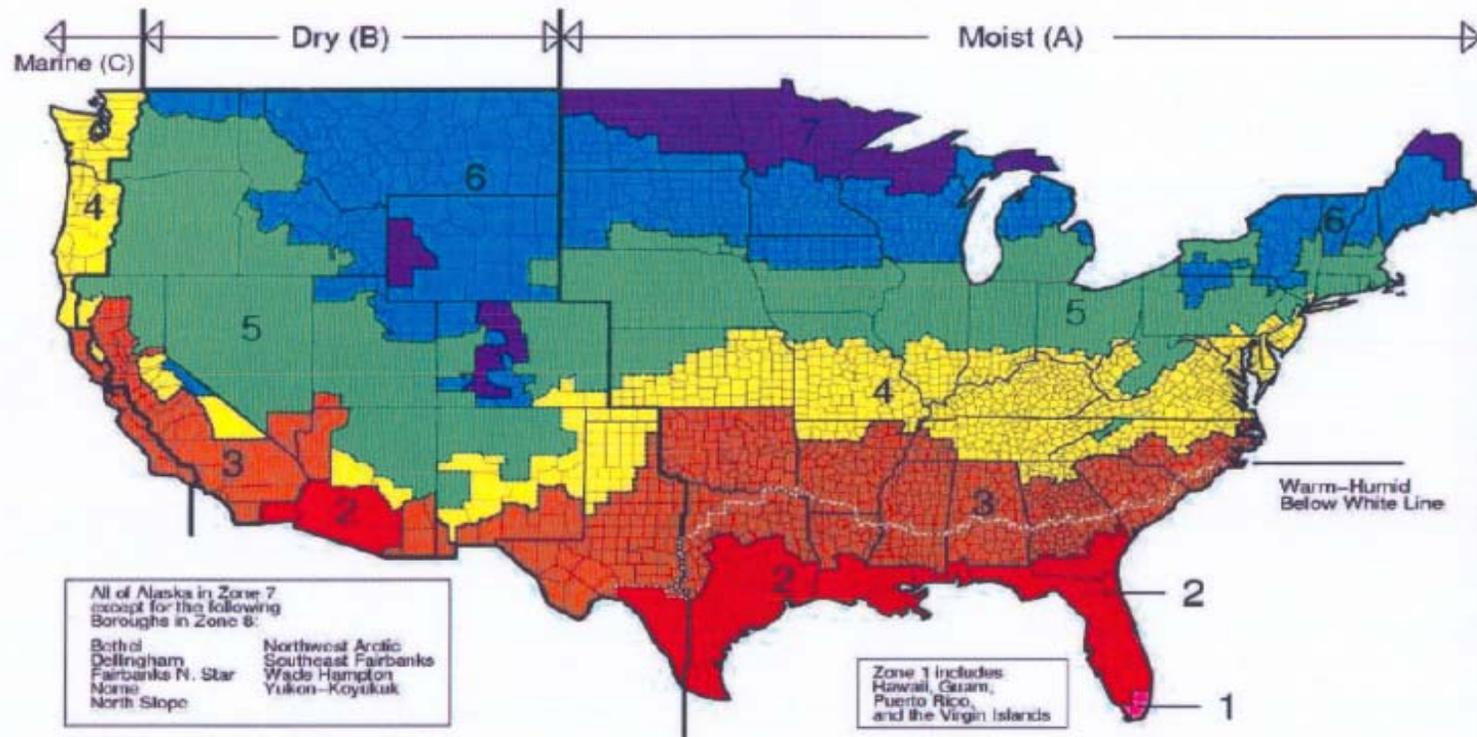
- Emergency escape (§310.1), pg. 52
 - Minimum opening area (§310.1.1) pg 53
 - Opening area (§310.1.1), pg. 53
 - Ladder and steps (§310.2.1) pg 53
 - Operational constraints (§310.4), pg. 53
 - Bars and grills (§310.4), pg. 53
 - Under decks (§310.5), pg. 53

2006 Building/Planning- Changes

- Smoke alarms (§313.1), pg. 55
- Foam Plastics (§314.3, §314.4 & §314.5.3), pg. 56
- Attics (§314.5.3), pg. 56
- One & Two Family dwelling unit separation (§317.1), pg. 58
 - Continuity (§317.2.1), pg. 59
 - Rated penetrations (§317.3), pg. 5
- * Moisture control (§318.1), Exc. 3 pg. 60 & pg. 315 & *Figure N1101.2, *pg. 312 & Table N1101.2, pg. 319

Figure # 1102 pg. 312 Moisture Content Map

Climate Zones—2006 IECC



2006 Building/Planning- Changes

- Smoke alarms (§313.1), pg. 55
- Foam Plastics
(§314.3, §314.4 & §314.5.3), pg. 56
- Attics (§314.5.3), pg. 56
- Townhouse dwelling unit separation (§317.2.1), pg. 58
 - Continuity (§317.2.1), pg. 59
 - Rated penetrations (§317.3), pg. 5
- * Moisture control (§318.1), Exc. 3 pg. 60 &
pg. 315 & *Figure N1101.2, *pg. 312 & Table
N1101.2, pg. 319
- Termites moderate to heavy (§320.1.2)pg 61

CHAPTER 4

FOUNDATION/FOOTINGS

2006 Foundation/Footing- Changes

- *Footing slope (§403.1.5), pg. 72

Uneven Footing R403.1.5



2006 Foundation/Footing- Changes

- Drainage (§401.3), pg. 67
- Table (§402.2), pg. 68
- *Footing slope (§403.1.5), pg. 72
- Foundation insulation and Figure 403.3(2), pg. 75 & (T403.3), pg. 74
- *Foundation anchorage (§404.1(1), pg. 78; T404.1(2), pg. 79 and T405.1, pg.94)

Sill Plate Anchor Bolt Spacing



11/14/2006

Simpson Email Question

How are you addressing sill plate anchoring per the ICC IRC 2006 edition Table R404.1(2)? An example would be a 9' wall with 9' of unbalanced fill (SC,MH,ML-CL soils) would require 1/2" bolts at 5" o.c. Thanks in advance for your quick response.

Simpson Email Response

From: Scott Fischer [<mailto:sfischer@strongtie.com>]
Sent: Tuesday, November 21, 2006 1:18 PM
To: Marshall, Roger
Cc: Tina Goodman
Subject: RE: Questions/comments from a strongtie.com visitor

Roger,
thanks so much for your inquiry.
Our Titen HD's and RFB's are offered as direct 1 to 1 replacements for sill bolts:
<http://www.strongtie.com/ftp/catalogs/C-2006/C-2006-p029-p032.pdf>

For your example, if the IRC is requiring a 1/2" bolt at 5" o.c., you could use a 1/2" Titen HD at 5" o.c. (or a 5/8" at 6.25" o.c. - per IRC) or you could use a 1/2" RFB at 5" o.c. (or a 5/8" at 6.25" o.c. - per IRC).

You may also use an appropriate mudsill anchor as a replacement:
<http://www.strongtie.com/ftp/catalogs/C-2006/C-2006-p024-p025.pdf>

Code listed mudsill anchors may be used in place of anchor bolts per IRC 2003, R408.1.6. A calculated design load reaction should be used to determine the exact quantity and spacing of the mudsill anchors in this condition.

If you have any other questions feel free to contact us at any time.

Sincerely,

Scott J. Fischer, P.E.
R&D Engineer
Simpson Strong-Tie
1 800 925-5099

2006 Foundation/Footing- Changes

- Drainage (§401.3), pg. 67
- Table (§402.2), pg. 68
- *Footing slope (§403.1.5), pg. 72
- Foundation insulation (T403.3), pg. 74 and Figure 403.3(2), pg. 75
- *Foundation anchorage (§404.1(1), pg. 74; T404.1(2), pg. 79 and T405.1, pg.94)
- Foundations (§404.1(1), pg. 78 & T404.1.1(1) & T404.1.1(2) & T404.1.1(3) & T404.1.1(4) & T404.1.1(5)
- Retaining walls (§404.5), pg. 88
- Waterproofing (§406.2), pg. 90

CHAPTER 5

FLOORS

2006 Floors- Changes

- *Decks (§502.2.2), pg. 97 & Table 301.5 pg 46

Stringer Lacks Support



23/08/2006

Springettsbury Township
Department of Community Development

Incorrect Attached Support



Support Strapping

H SEISMIC AND HURRICANE TIES

SIMPSON
Strong-Tie

The H14 is the high uplift hurricane tie. It can be installed with rafter nailing flanges facing inwards or outwards.

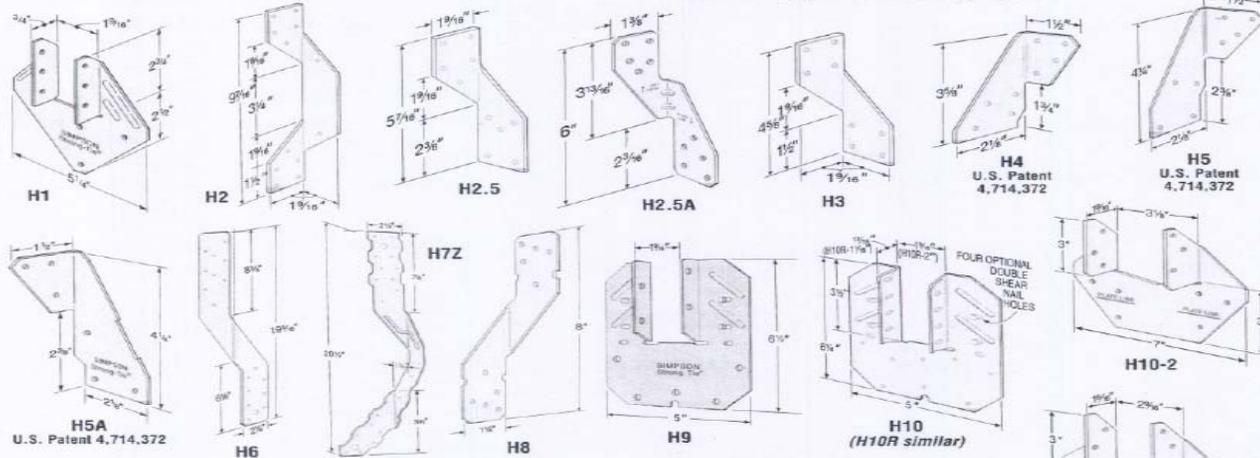
The H2.5A is designed for easy installation, with higher uplift loads to meet new code requirements. H5A has installed cost benefit, it only requires 6 nails, to meet lower uplift requirements.

MATERIAL: See table **FINISH:** Galvanized. H7Z and H11Z-Z-MAX. Some models available in stainless steel or Z-MAX; see Corrosion-Resistance, page 5.

INSTALLATION: • Use all specified fasteners. See General Notes.

- H1 can be installed with flanges facing inwards (reverse of H1 drawing number 1).
- H2.5, H3, H4, H5, H5A and H6 ties are only shipped in equal quantities of rights and lefts.
- Hurricane Ties do not replace solid blocking.

CODES: See page 10 for Code Listing Key Chart.



Available with additional corrosion protection. Check with factory.

Model No.	Ga	Fasteners			Uplift Avg Ull	DF/SP Allowable Loads				Uplift Load with 8dx1 1/2" Nails (133 & 160)	SPF/HF Allowable Loads				Uplift Load with 8dx1 1/2" Nails (133 & 160)	Code Ref.
		To Rafters/Truss	To Plates	To Studs		Uplift		Lateral			Uplift		Lateral			
						(133)	(160)	F ₁	F ₂		(133)	(160)	F ₁	F ₂		
H1	18	6-8dx1 1/2	4-8d	—	1958	490	585	485	165	455	400	400	415	140	370	2, 40, 82, 121, 140
H2	18	5-8d	—	5-8d	1040	335	335	—	—	335	230	230	—	—	230	—
H2.5	18	5-8d	5-8d	—	1300	415	415	150	150	415	365	365	130	130	365	—
H2.5A	18	5-8d	5-8d	—	1793	600	600	110	110	480	520	535	110	110	480	122
H3	18	4-8d	4-8d	—	1433	455	455	125	160	415	320	320	105	140	290	2, 40, 82, 121, 140
H4	20	4-8d	4-8d	—	1144	360	360	165	160	360	235	235	140	135	235	—
H5	18	4-8d	4-8d	—	1485	455	455	115	200	455	265	265	100	170	265	—
H5A	18	3-8d	3-8d	—	1500	350	420	115	180	290	245	245	100	120	170	10
H6	16	—	8-8d	8-8d	3983	915	950	650	—	—	785	820	560	—	—	5, 41, 121, 140
H7Z	16	4-8d	2-8d	8-8d	2991	930	985	400	—	—	800	845	345	—	—	—
H8	18	5-10dx1 1/2	5-10dx1 1/2	—	2422	620	745	—	—	—	530	565	—	—	—	125
H9KT	18	4-SDS 1/4x1 1/2	5-SDS 1/4x1 1/2	—	2812	875	875	680	125	—	755	755	680	125	—	170
H10	18	8-8dx1 1/2	8-8dx1 1/2	—	3135	905	990	585	525	—	780	850	505	450	—	9, 121
H10R	18	8-8dx1 1/2	8-8dx1 1/2	—	3135	905	990	585	525	—	780	850	505	450	—	—
H10-2	18	6-10d	6-10d	—	2447	760	760	455	395	—	655	655	390	340	—	6, 121
H11Z	18	6-18dx2 1/2	6-18dx2 1/2	—	5097	830	830	525	760	—	715	715	450	655	—	170
H14	18	1 12-8dx1 1/2	13-8d	—	4197	1350	1350	515	265	—	1050	1050	480	245	—	125
		2 12-8dx1 1/2	15-8d	—	4380	1350	1350	515	265	—	1050	1050	480	245	—	—

1. Loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed; reduce where other loads govern.

2. Allowable loads are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.

3. Allowable uplift load for stud to bottom plate installation is 400 lbs (H2.5); 390 lbs (H2.5A); 360 lbs (H4) and 310 lbs (H8).

4. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.

5. Hurricane Ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a Continuous Load Path, connections must be on same side of the wall.

6. Southern Pine allowable loads for H14: 1465 lbs (133/160), 560 lbs (F₁ Lateral 133/160) and 285 lbs (F₂ Lateral 133/160).

Straps & Ties

Framing Angles and Plates

LTP4/LTP5/A34/A35 FRAMING ANGLES AND PLATES

SIMPSON
Strong-Tie

The larger LTP5 spans subfloor at the top of the blocking or rim joist. The embossments enhance performance and the min/max nailing option allows for design flexibility.

The LTP4 Lateral Tie Plate transfers shear forces for top plate-to-rim joist or blocking connections. Nail holes are spaced to prevent wood splitting for single and double top plate applications. May be installed over plywood sheathing.

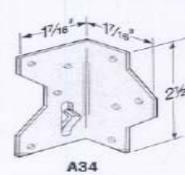
The A35 anchor's exclusive bending slot allows instant, accurate field bends for all two- and three-way ties. Balanced, completely reversible design permits the A35 to secure a great variety of connections.

MATERIAL: LTP4/LTP5—20 gauge; all others—18 gauge
FINISH: Galvanized. Some products available in stainless steel or Z-MAX; see Corrosion-Resistance, page 5.

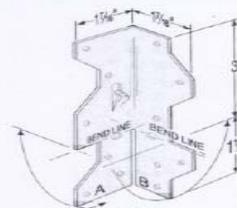
INSTALLATION: • Use all specified fasteners. See General Notes.

- A34—Use 8-8dx1½" nails.
- A35—Use 12-8dx1½" nails.
- A35—Use 9-8dx1½" nails for connection types A1, E, C1.
- A35—Bend one time only.
- LTP4—Use 12-8dx1½" nails.
- LTP5—Use 12-8dx1½" nails; G Max use 14-8dx1½" nails.

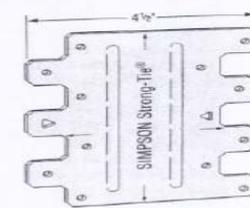
CODES: See page 10 for Code Listing Key Chart.



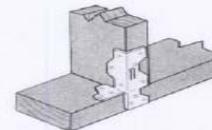
A34



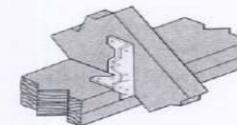
A35



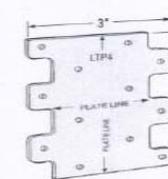
LTP5



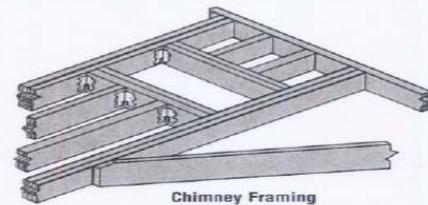
Studs to Plate with B Leg Outside



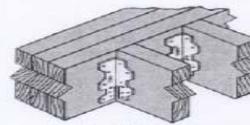
Joists to Plate with A Leg Inside



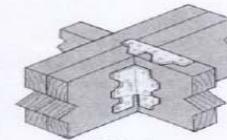
LTP4



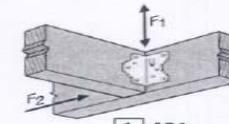
Chimney Framing



Ceiling Joists to Beam



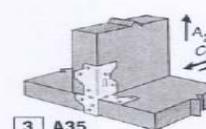
Joists to Beams



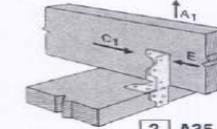
1 A34

Available with additional corrosion protection. Check with factory.

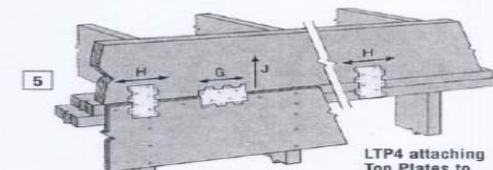
Model No.	Type of Connection	Direction of Load	DF/SP Allowable Loads			SPF/HF Allowable Loads			Code Ref.
			Floor (100)	Roof (125)	(133/160)	Floor (100)	Roof (125)	(133/160)	
A34	1	F ₁	345	365	365	295	315	315	3, 39, 88, 121, 140
		F ₂	290	280	280	240	240	240	
	2	A ₁ , E	260	320	335	225	275	290	
		C ₁	170	170	170	145	145	145	
A35	3	A ₂	260	320	345	225	275	290	6, 97, 121
		C ₂	260	315	315	225	270	270	
	4	D	150	150	150	130	130	130	
		F ₁	450	450	450	450	450	450	
A35F	Deleted — see LTP4 and LTP5								
LTP4	5	G	515	645	670	445	555	595	160
		J	515	645	670	445	555	595	
		H	515	645	670	445	555	595	
LTP5	6	G Max	520	595	595	445	510	510	160
		J	520	555	555	445	475	475	
		H	520	555	555	445	475	475	



3 A35



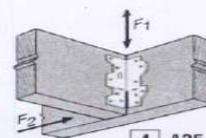
2 A35



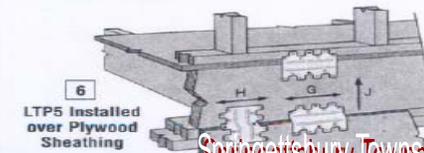
LTP4 installed over Plywood Sheathing

LTP4 attaching Top Plates to Rim Joist

1. Allowable loads are for one anchor. When anchors are installed on each side of the joist, the minimum joist thickness is 3".
2. Roof loads are 125% of floor loads unless limited by other criteria.
3. Some illustrations show connections that could cause cross-grain tension or bending of the wood during loading if not reinforced sufficiently. In this case, mechanical reinforcement should be considered.
4. G and H direction only: LTP4 can be installed over 3/4" plywood with 8dx1½" nails and achieve .72 of the listed load, or over 1/2" and achieve .64 of the listed load. 8d commons will achieve 100% load.
5. The LTP5 may be installed over sheathing up to 1/2" thick with no reduction in load.



4 A35



LTP5 installed over Plywood Sheathing

Springettsbury Township

Adjustable Hangers

LSU/LSSU ADJUSTABLE LIGHT SLOPEABLE/SKEWABLE U HANGERS

SIMPSON
Strong-Tie

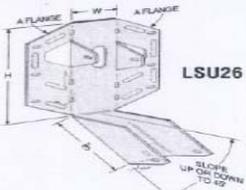
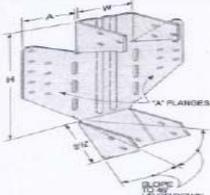
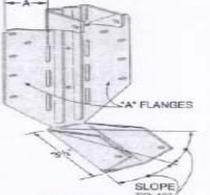
✓ This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

This series attach joists or rafters to headers, sloped up or down, and skewed left or right, up to 45°.

MATERIAL: See table.
FINISH: Galvanized. Some products available in Z-MAX; see Corrosion-Resistance, page 5.
INSTALLATION: • Use all specified fasteners. See General Notes.
 • Attach the sloped joist at both ends so that the horizontal force developed by the slope is fully supported by the supporting members.

CODES: See page 10 for Code Listing Key Chart.

Available with additional corrosion protection. Check with factory.

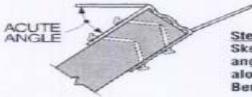
Joist Width	Model No.	Ga	Dimensions			Fasteners		Down Avg Uilt	DF/SP Species Header Allowable Loads				SPF Species Header Allowable Loads				Code Ref.	
			W	H	A	Face	Joist		Uplift ² (133)	Uplift ² (160)	Floor (100)	Snow (115)	Const (125)	Uplift ² (133)	Floor (100)	Snow (115)		Const (125)
Sloped Only Hangers																		
1½	LSU26	18	1⅞	4⅞	1½	6-10d	5-10dx1½	3084	485	535	665	765	800	415	575	660	690	1, 84, 140, 121
1½	LSSU28	18	1⅞	7⅞	1½	10-10d	5-10dx1½	5800	485	535	1110	1275	1390	415	960	1105	1200	6, 86, 140, 121
1½	LSSU210	18	1⅞	8⅞	1½	10-10d	7-10dx1½	5800	730	875	1110	1275	1390	625	960	1105	1200	160
2½	LSSUH310	16	2⅞	8⅞	3¼	18-16d	12-10dx1½	10179	1150	1150	2295	2295	2295	990	1930	1930	1930	4, 37, 87, 121
3	LSSU210-2	16	3⅞	8⅞	2½	18-16d	12-10dx1½	10305	1150	1150	2430	2795	3035	990	2160	2485	2700	4, 37, 87, 121
3½	LSSU410	16	3⅞	8⅞	2½	18-16d	12-10dx1½	10305	1150	1150	2430	2795	3035	990	2160	2485	2700	
Skewed Hangers or Sloped and Skewed																		
1½	LSU26	18	1⅞	4⅞	1½	6-10d	5-10dx1½	3084	485	535	665	765	800	415	575	660	690	1, 84
1½	LSSU28	18	1⅞	7⅞	1½	9-10d	5-10dx1½	3197	450	450	885	885	885	415	765	765	765	6, 86, 140
1½	LSSU210	18	1⅞	8⅞	1½	9-10d	7-10dx1½	4235	730	785	995	1145	1205	625	860	995	1050	160
2½	LSSUH310	16	2⅞	8⅞	3¼	14-16d	12-10dx1½	6823	1150	1150	1600	1600	1600	990	1385	1385	1385	160
3	LSSU210-2	16	3⅞	8⅞	2½	14-16d	12-10dx1½	5742	1150	1150	1625	1625	1625	990	1365	1365	1365	4, 37, 87
3½	LSSU410	16	3⅞	8⅞	2½	14-16d	12-10dx1½	5742	1150	1150	1625	1625	1625	990	1365	1365	1365	4, 37, 87

1. Roof loads are 125% of floor loads unless limited by other criteria.
 2. Uplift loads include a 33% and 60% increase for earthquake or wind loading; no further increase is allowed; reduce when other loads govern.
 3. Truss chord cross-grain tension may limit allowable loads. Refer to Technical Bulletins T-ANSITPISP, T-ANSITPISP and T-ANSITPIDF for allowable loads that consider ANSITP/1-2002 wood member design criteria.

LSSU INSTALLATION SEQUENCE



Step 1
Nail hanger to slope-cut carried member, installing seat nail first. No bevel necessary for skewed installation.



Step 2
Skew flange to form acute angle. Bend other flange back along centerline of slots. Bend one time only.



Step 3
Attach hanger to the carrying member, acute angle side first. Install nails at an angle.

HCP HIP CORNER PLATES

The HCP connects a rafter or joist to double top plates at a 45° angle.

MATERIAL: 18 gauge. **FINISH:** HCP2—galvanized or Z-MAX; HCP4Z—Z-MAX™.

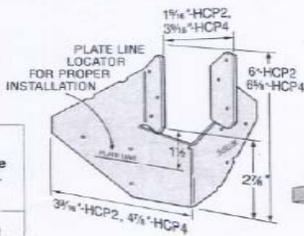
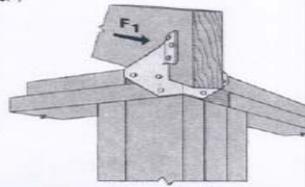
INSTALLATION: • Use all specified fasteners. See General Notes.
 • Attach HCP to double top plates; birdsmouth not required for table loads.
 • Install rafter and complete nailing. Rafter may be sloped to 45°.

CODES: See page 10 for Code Listing Key Chart.

Available with additional corrosion protection. Check with factory.

Member Size	Model No.	Fasteners		Uplift Avg Uilt	Doug-Fir-Larch/So. Pine Allowable Loads ¹		Spruce-Pine-Fir Allowable Loads ¹		Code Ref.
		To Rafters	To Plates		(133 & 160)	(133 & 160)			
2x	HCP2	6-10dx1½	6-10dx1½	2017	605	300	520	260	9, 121
4x	HCP4Z	8-10d	8-10d	3367	1000	265	860	230	

1. Loads may not be increased for short-term loading.
 2. The HCP can be installed on the inside and the outside of the wall with a flat bottom chord truss and achieve twice the load capacity.
 3. Uplift loads include a 33% and 60% increase for earthquake or wind loading; no further increase allowed; reduce when other loads govern.

HCP2
(HCP4Z similar)
U.S. Patent 5,380,115

Typical HCP Installation

2006 Floors- Changes

- *Decks (§502.2.2), pg. 97 & Table 301.5 pg 46
- *Floor loads (§502.3.1), pg. 97; T502.3.1(1&2) §802.4 & §802 5, pg. 244

Excessive Notch

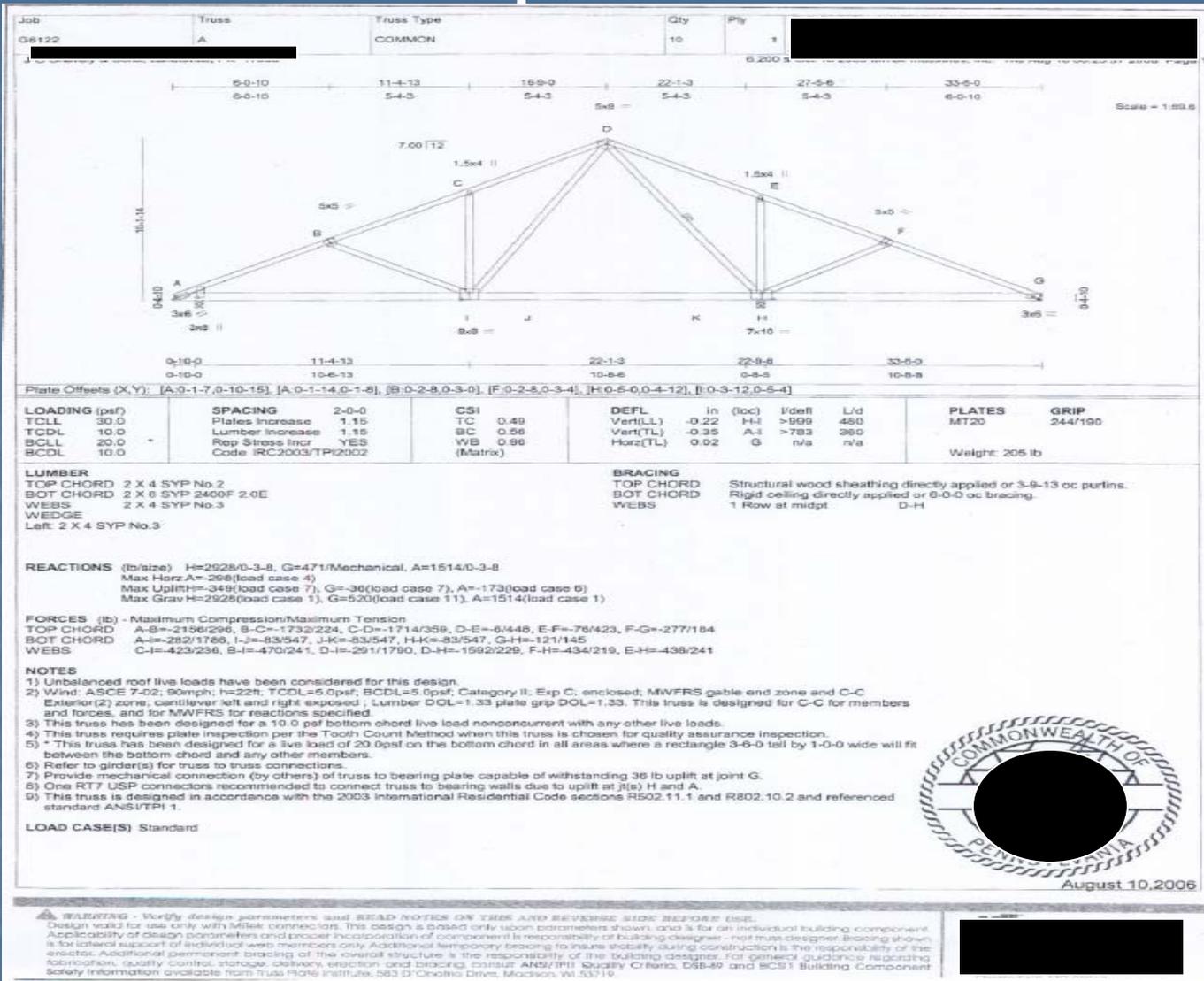


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2006 Floors- Changes

- *Decks (§502.2.2), pg. 97 & Table 301.5 pg. 46
- *Floor loads (§502.3.1), pg. 97; T502.3.1(1&2) §802.4 & §802 5, pg. 244
- Girder/Header spans (Table §502.5(1)) New pgs. 102 and 103
- Engineered wood products (§502.8.2), pg. 103
- *Wood trusses (§502.11.1 pg. 104, §502.11.4), pg. 106

Truss Specifications



2006 Floors- Changes

- *Decks (§502.2.2), pg. 97 & Table 301.5 pg 46
- *Floor loads (§502.3.1), pg. 97; T502.3.1(1&2) §802.4 & §802 5, pg. 244
- Girder/Header spans (Table §502.5(1)) New pgs. 102 and 103
- Engineered wood products (§502.8.2), pg. 103
- Wood trusses (§502.11.1 pg 104 §502.11.4), pg. 106
- Table (§503.2.2.2(1)), pg. 107 New

CHAPTER 6

WALL CONSTRUCTION

2006 Wall Construction -Changes

- Table 602.3(1) all new pgs.124 and 125
- Table 602.3(2) many new sections, pg. 126
- Drilling/Notching Studs (§602.6), pg. 132
- *Drilling/Notching Top Plate(§602.6.1), pg. 133

Drilling Top Plates



2006 Wall Construction -Changes

- Table 602.3(1) all new pgs.124 and 125
- Table 602.3(2) many new sections, pg. 126
- Drilling/Notching Studs (§602.6), pg. 132
- *Drilling/Notching Top Plate(§602.6.1), pg. 133
- *Fire blocking (§602.8.1.(4)), pg. 133

Vertical Fire Blocking at Duct



2006 Wall Construction -Changes

- Table 602.3(1) all new pgs.124 and 125
- Table 602.3(2) many new sections, pg. 126
- Drilling/Notching Studs (§602.6), pg. 132
- *Drilling/Notching Top Plate(§602.6.1), pg. 133
- *Fire blocking (§602.8.1.(4)), pg. 133,134
- Braced Wall Panel Table 602.10.1, pg. 137; Figure 602.10.6.2 pg. 140

CHAPTER 7

WALL COVERING

2006 Wall Coverings- Changes

- Water resistant GWB (§702.3.8 & 702.3.8.1), pg. 231
- Tile wall backing (§702.4.2), pg. 232
- Water resistant barrier (§703.2), pg. 233
- Stone veneer (§703.7 x1 and Table 703.7(1)), pg. 238

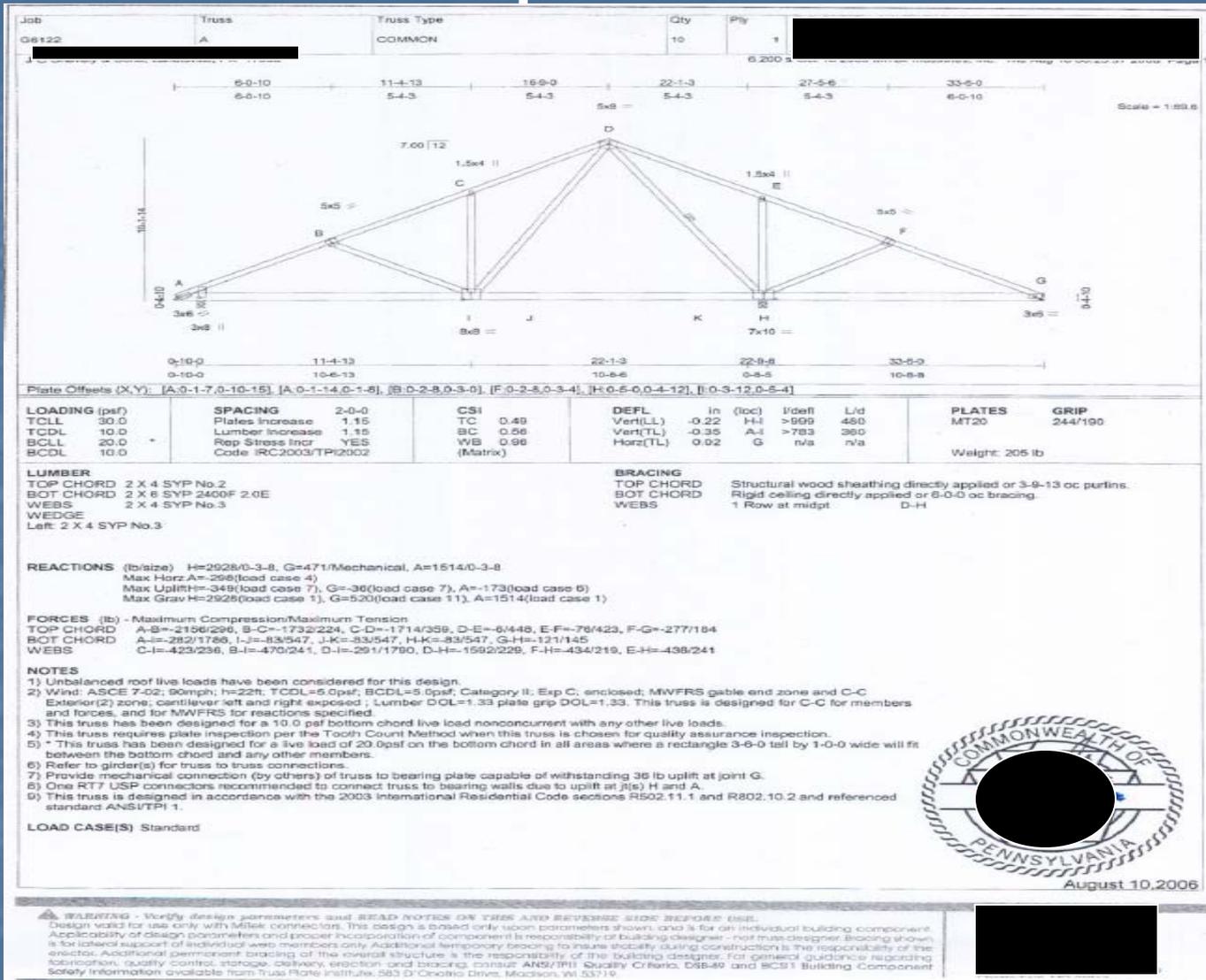
CHAPTER 8

ROOF/CEILING CONSTRUCTION

2006 Roof/Ceiling Construction- Changes

- Engineered wood products (§802.7.2), pg. 245
- *Truss design (§802.10.1 and §802.10.2), pg. 245

Truss Specifications



2006 Roof/Ceiling Construction- Changes

- Engineered wood products (§802.7.2), pg. 245
- *Truss design (§802.10.1 and §802.10.2), pg. 245
- Combustible insulation (§808.1), pg. 287

CHAPTER 9

ROOF ASSEMBLIES

2006 Roof Assemblies- Changes

- Hail Exposure Map Figure 903.5 pg 290
- Ice barrier (§905.2.7.1), pg. 291

CHAPTER 11

ENERGY EFFICIENCY

2006 Energy Efficiency- Changes

- *Insulation markers (§1101.4.1), pg. 311

Attic Insulation Markers



2006 Energy Efficiency- Changes

- * Insulation markers (§1101.4.1), pg. 311
- * Certificate (§1101.8), pg. 311

Insulation Certificate



The coverage chart is based on settled thickness and a nominal bag weight of 30 lbs. Use this chart for estimating purposes only. Actual coverage will be influenced by job conditions, equipment settings and application techniques. To obtain optimum performance from this product, we recommend maintaining moisture content within an 18-22% range for ceiling applications. This product is not intended for spray-applied wall applications or dry loose-fill applications. You must add water to this product.

This **attic** has been insulated to:

R-

The **walls** have been insulated to:

R-

The **floors** have been insulated to:

R-

Insulation has been installed to the R-value indicated above, with Cocoon, the high-efficiency insulation. Made from a minimum of 80% recycled materials, Cocoon is scientifically formulated to deliver greater efficiency per inch than other insulation materials.

R-Value is a measure of resistance to heat flow – the higher the R-value, the greater the insulation power.

If you would like to add more insulation to your home, contact your Cocoon dealer:

Residence Address: _____

Installed by: _____

Cocoon2 is a registered trademark of GreenFiber © 2005 US GreenFiber LLC. All rights reserved. Printed in USA. PM-6-3-12 Rev B

Cocoon2 Stabilized Insulation - 30 lb. bag Product # INS500					
R-Value @ 75°F Mean Temperature	Minimum Thickness (inches)		Maximum Net Coverage (No Adjustment for Framing)		
	To Obtain a Thermal Resistance (R) of:	Installed Insulation Should Not Be Less Than:	Thickness After Settling	Maximum Square Feet per Bag	Minimum Bags per 1,000 Square Feet
R-11	3.06	2.97	125.9	7.9	0.238
R-13	3.62	3.51	100.2	10.0	0.209
R-19	5.29	5.14	60.4	16.6	0.497
R-20	5.57	5.41	56.5	17.7	0.531
R-21	5.85	5.68	53.0	18.9	0.566
R-22	6.13	5.95	49.9	20.1	0.602
R-24	6.69	6.49	44.5	22.5	0.674
R-30	8.36	8.11	33.4	29.9	0.897
R-32	8.92	8.65	30.8	32.5	0.974
R-38	10.59	10.27	24.8	40.3	1.210
R-40	11.15	10.81	23.2	43.0	1.291
R-44	12.26	11.89	20.6	48.5	1.454
R-48	13.37	12.97	18.5	54.0	1.621
R-50	13.93	13.51	17.6	56.8	1.705
R-60	16.72	16.22	14.0	71.2	2.136

Builder Company Name:

Builder Signature: _____

Date: _____

CERTIFICATION

Attic: Cocoon2, manufactured by GreenFiber.

This is to certify that the attic insulation has been installed in conformance with the coverage chart recommendations above using **50** bags to cover **1212** sq. ft. to obtain an R-value of **38**.

Walls: Cocoon2 Stabilized Borate Formula, manufactured by GreenFiber.

This is to certify that the wall insulation has been installed in conformance with the manufacturer's recommendations to obtain an R-value of _____.

Walls and Floors: Type of insulation _____ Manufacturer _____

This is to certify that the wall and floor insulations have been installed in conformance with the manufacturer's recommendations to obtain the R-Values noted.

Installer Company Name:

Installer Authorized Signature: _____

Date: _____

Manufactured in:

- Atlanta, GA
- Elkwood, VA
- Sacramento, CA
- Charlotte, NC
- Norfolk, NE
- Tampa, FL
- Denver, CO
- Phoenix, AZ
- Waco, TX
- Delphos, OH

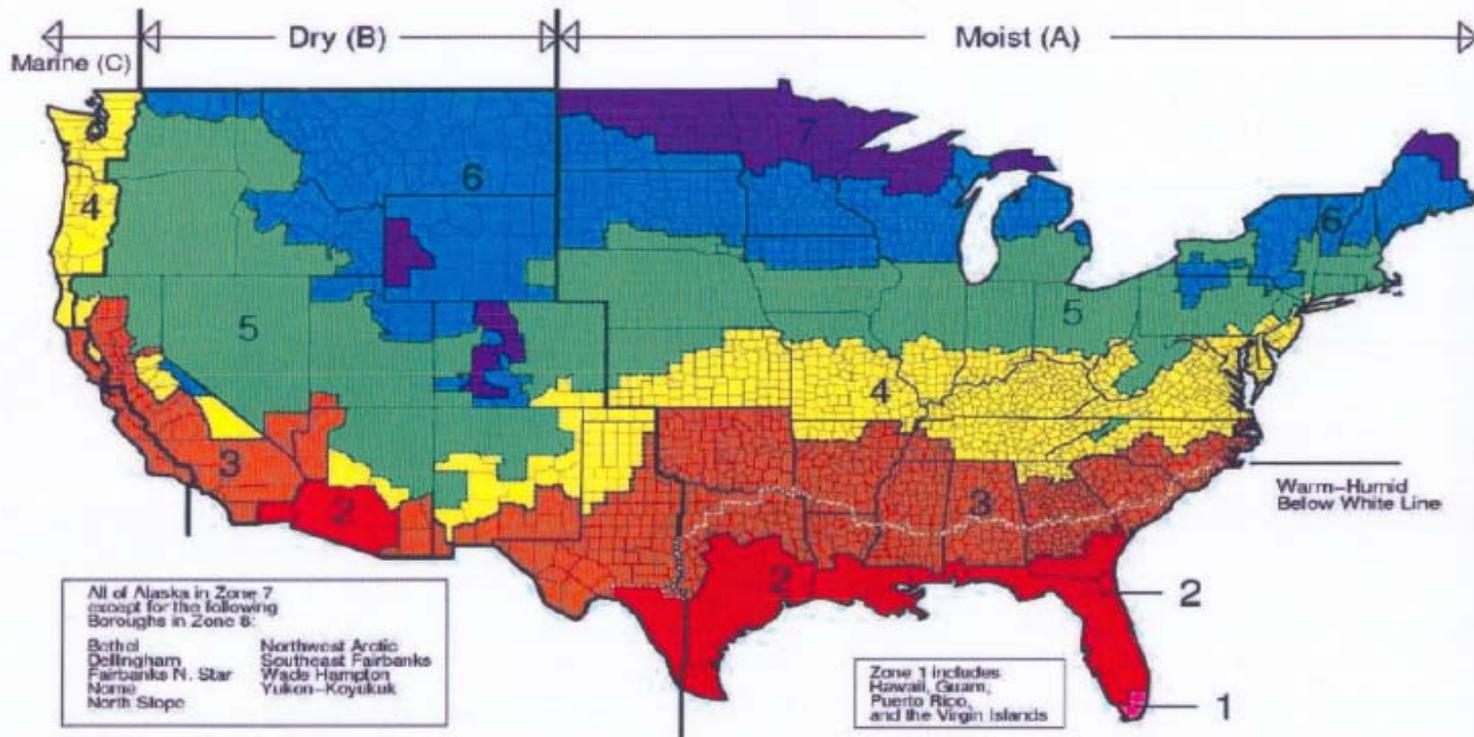
Springettsbury Township
Department of Community Development 58

2006 Energy Efficiency- Changes

- * Insulation markers (§1101.4.1), pg. 311
- * Certificate (§1101.8), pg. 311
- * Climate zones/moisture zones
(Figure N1101.2 and pg. 315)

Figure # 1102 pg. 312 Moisture Content Map

Climate Zones—2006 IECC



2006 Energy Efficiency- Changes

- * Insulation markers (§1101.4.1), pg. 311
- * Certificate (§1101.8), pg. 311
- * Climate zones/moisture zones
(Figure N1101.2 and pg. 315)
- R-Value (§1102.1.1), pg. 318 & (§1102.2.1)
- Insulation R-Value (Table N1102.1), pg. 319
- * Compressed wall insulation per manufacture

Compressed Insulation



09/21/2006

Compressed Insulation



2006 Energy Efficiency- Changes

- * Insulation markers (§1101.4.1), pg. 311
- * Certificate (§1101.8), pg. 311
- * Climate zones/moisture zones
(Figure N1101.2 and pg. 315)
- R-Value (§1102.1.1), pg. 318; Table 1102.1 pg 319
- Insulation R-Value (Table N1102.1), pg. 319
- * Compressed wall insulation per manufacture
- * Standard truss

Standard Truss



11/15/2006

2006 Energy Efficiency- Changes

- *Insulation markers (§1101.4.1), pg. 311
- * Certificate (§1101.8), pg. 311
- *Climate zones/moisture zones
(Figure N1101.2 and pg. 315)
- R-Value (§1102.1.1), pg. 318; Table 1102.1 pg 319
- Insulation R-Value (Table N1102.1), pg. 319
- *Compressed wall insulation per manufacture
- * Standard truss
- *Raised heel trusses (§1102.2.1), pg. 318

Raised Truss Heel



11/01/2006

2006 Energy Efficiency- Changes

- * Insulation markers (§1101.4.1), pg. 311
- * Certificate (§1101.8), pg. 311
- * Climate zones/moisture zones
(Figure N1101.2 and pg. 315)
- R-Value (§1102.1.1), pg. 318; Table 1102.1 pg 319
- Insulation R-Value (Table N1102.1), pg. 319
- * Compressed wall insulation per manufacture
- * Standard truss
- * Raised heel trusses (§1102.2.1), pg. 318
- Vapor barrier (§1102.5 exc. #2), pg. 321

CHAPTER 13

GENERAL MECHANICAL SYSTEM REQUIREMENTS

2006 General Mechanical System Requirements- Changes

- Electrical Requirements (§1305.1.4.3), pg. 326

CHAPTER 14

HEATING AND COOLING EQUIPMENT

2006 Heating and Cooling Equipment- Changes

- Condensate drain (§M1411.3.1), pg. 333

CHAPTER 15

EXHAUST SYSTEMS

2006 Exhaust Systems-Changes

- Cloths Dryer Exhaust (§1502), pg. 335
- Dryer Vent Exhaust (§1502.6), pg. 335
- Duct Ventilation (§1507.2), pg. 336
- Ventilation Rate T1507.3, pg. 336

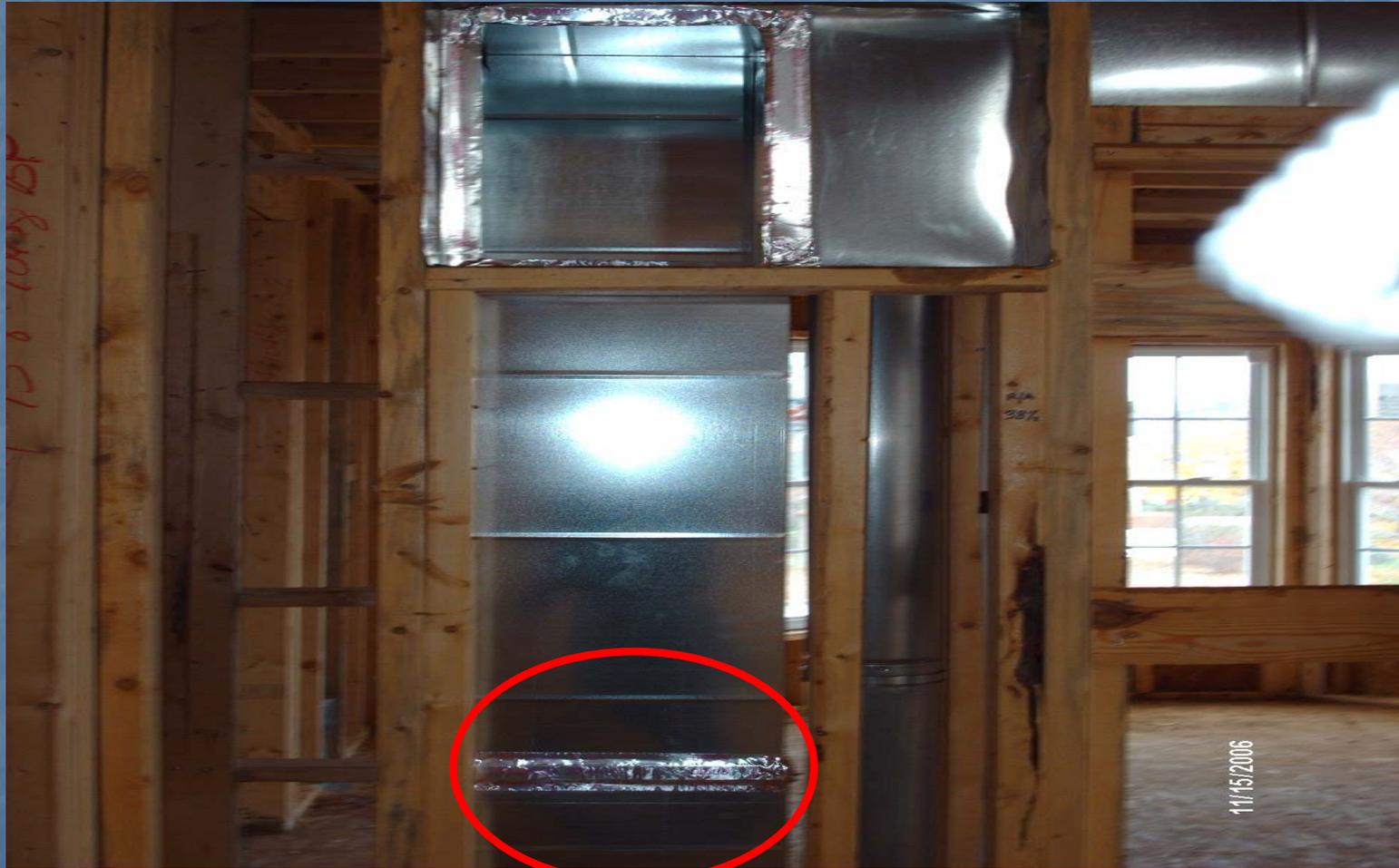
CHAPTER 16

Duct Systems

2006 Duct System- Changes

- *Duct tape (§M1601.3.1), pg. 338

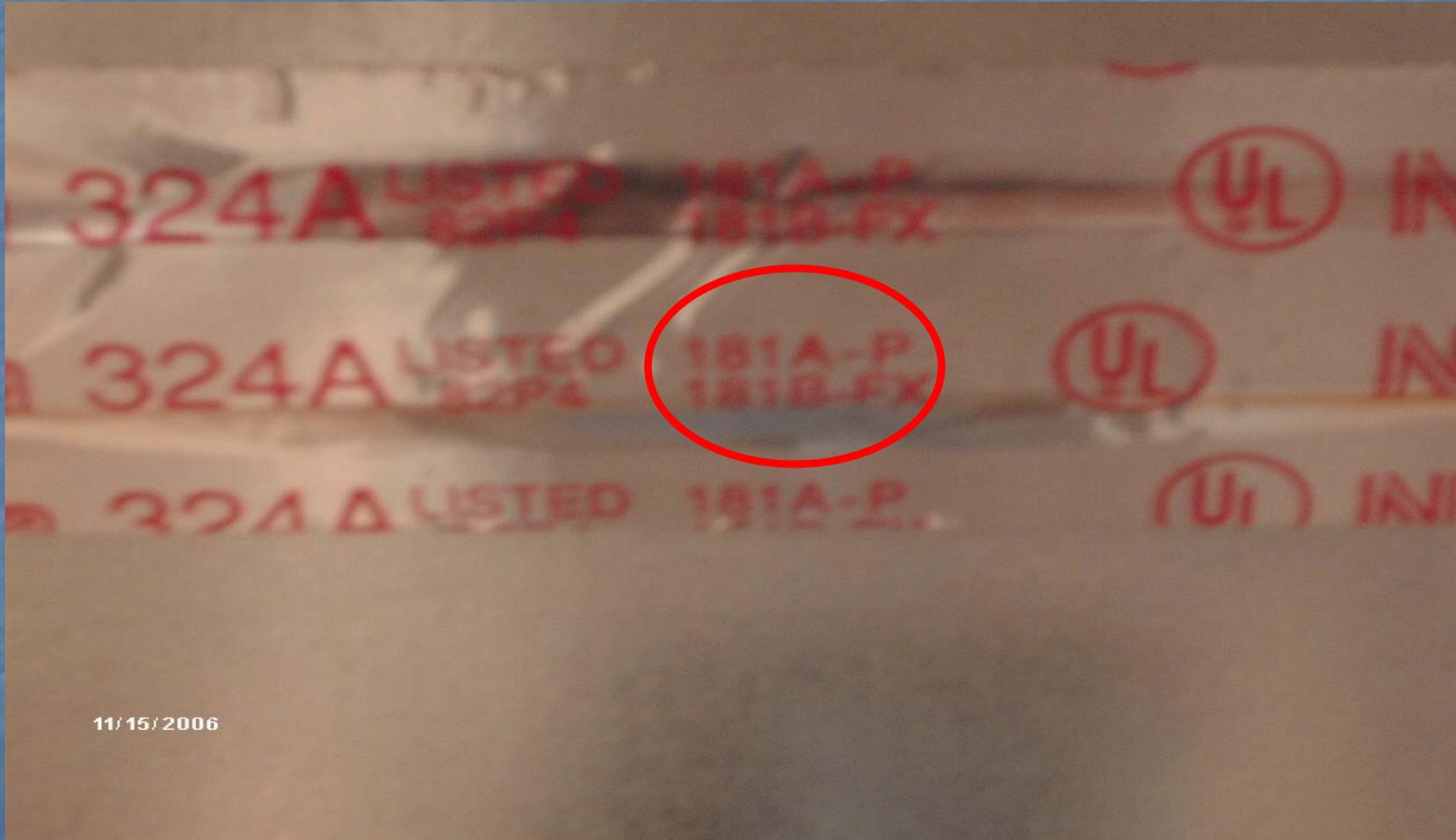
Duct Tape Application



2006 Duct System- Changes

- *Duct tape (§M1601.3.1), pg. 338
- *Duct fire blocking (§M1601.3.3), pg. 338

Approved Duct Board Taping



11/15/2006

CHAPTERS 17 & 18 CUMBUSTION AIR & CHIMNEYS AND VENTS

-NO CHANGES-

Chapter 19

SPECIAL FUEL-BURNING EQUIPMENT

2006 Special Fuel-Burning Equipment Changes

- Gaseous Hydrogen (§1904), pg. 351

CHAPTER 20

BOILERS AND WATER HEATERS

2006 Boilers and Water Heater Changes

- Pool heaters (§2006.3), pg. 354

CHAPTERS 21, 22 and 23

HYDRONIC PIPING SPECIAL PIPING AND STORAGE SYSTEMS SOLAR SYSTEMS

-LITTLE OR NO CHANGES-

CHAPTER 24 FUEL GAS

Not to be addressed

CHAPTERS 26 to 32 PLUMBING

Not to be addressed

CHAPTER 38

POWER/LIGHTING

2006 Power and Lighting- Changes

- Boxes for fan outlets (§3805.9), pg. 519

END

