QuickTie™
HIGH WIND AND SEISMIC SYSTEMS
"Stronger in the Storm"™

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PRODUCT CATALOG
SPRING 2024
DIVISION 4 AND 6

WOOD, SEISMIC, AND MASONRY TIE-DOWN SYSTEMS AND CONSTRUCTION CONNECTORS

Parts not proportional or to scale.

MADE IN USA

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CUSTOM PARTS TO ORDER

Founded in 1999, Quick Tie Products, Inc. has been protecting homes and their residents for 24 years. We run a state-of-the-art production manufacturing facility equipped with advanced machinery, and have in-house engineering and design as well as tool and die capabilities. We specialize in designing and manufacturing a wide range of structural components for single and multi-family structures like QuickTie™ Cables, Hold Downs, Truss to Top Plate Connectors, Straps, Hangers, Foundation Connectors and more, all in Jacksonville, Florida USA.

quicktie.com

QuickTie™
HIGH WIND AND SEISMIC SYSTEMS

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Scan to Learn More

13300 Vantage Way
Jacksonville, FL 32218
Phone: (904) 281-0525
info@quicktieproducts.com

About Quick Tie Products, Inc.

For the past 25 years, Quick Tie Products, Inc. ("QuickTie™") has manufactured and distributed an engineered system for residential construction that withstands hurricane force winds and meets building codes. It is a preferred choice of structural engineers and building professionals for a variety of reasons – two of which are its tattletale nature and the ease of inspection. QuickTie™ cables are tensioned over the specified design load at installation, gradually relaxing. If the system were to fail, it would fail at installation under peak stress. Over-tensioning also compensates for wood shrinkage and cinches a structure to its foundation while reducing drywall cracks and nail pops. And QuickTie™ cable anchor embedment depth is 100% verifiable (compared to threaded rod-based systems where depth is completely unverifiable absent a slab x-ray).

Given the choice between threaded rod, conventional hold-down and the QuickTie™ cable system, installers overwhelmingly prefer our system to save material conveyance and installation time – and therefore – money. This is particularly true on multistory structures where the cost-conscious engineers and their construction partners heavily favor QuickTie™ cables over the other options.

QuickTie™ also manufactures virtually every other structural component needed to build a light wood frame or CMU building. The staff of Professional Engineers and designers would love the opportunity to introduce you to their products. Visit quicktie.com for more information.

CUSTOM PARTS

Please contact us about manufacturing your custom steel parts (such as custom hangers, plates, etc.). We are happy to design a part unique to your situation, or, manufacture products to your design, with as little as a 48 hour turn-around time.

Warranty

Quick Tie Products, Inc. warrants that, after reasonable notice in writing delivered to its corporate office at 13300 Vantage Way, Jacksonville, FL 32218, from the date of purchase and for a period of one year, and after reasonable opportunity to inspect, it will replace without charge, any product manufactured by QuickTie™ which, upon inspection, is found by QuickTie™ to have been defective at the time of delivery by QuickTie™. This warranty does not apply if the claim is made more than one year from the date of purchase, or, in the event the products have been altered, damaged, installed improperly or misused in any manner after delivery by QuickTie™. This remedy shall constitute QuickTie's sole obligation and purchaser's sole remedy under this warranty. In no event will QuickTie™ be responsible for incidental, consequential, or special losses or damage regardless of cause. All warranties are void on products installed with epoxies that either (a) are not sold by QuickTie™ or (b) do not carry the QuickTie™ label.

Products sold, but not manufactured, by QuickTie™ shall be subject to the warranties and conditions thereof of the respective manufacturers. There are no warranties which extend beyond the description on the face hereof, and the warranty described in this paragraph shall be in lieu of any other warranty, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, course of dealing or usage of trade, all such other warranties being hereby expressly excluded.

Quick Tie Products, Inc. Affiliations or Memberships

NAHB National Association of Home Builders

SBCA Structural Building Components Association

NATIONAL FRAMERS COUNCIL

STAFDA

AIBD American Institute of Building Design

SEA NCSEA National Council of Structural Engineers Associations

Stronger than Hurricane Michael

The QuickTie™ System proved its importance and durability during Hurricane Michael in Mexico Beach by sustaining 165 mph winds. This was the first Category 5 hurricane on record to impact the Florida Panhandle, and the fourth strongest landfalling hurricane in the contiguous United States.

QuickTie HIGH WIND AND SEISMIC SYSTEMS

at Mexico Beach, FL

View Video

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QuickTie™ Product Index

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These Reference Numbers are for the purpose of enabling our customers to identify the QuickTie™ alternative to specified product names, but the attributes of the products references (particularly load values) may differ from the QuickTie™ part.

Please note that product comparison via Reference Numbers is for general application comparison only. Reference Numbers should not be used as an apples-to-apples substitution tool. Customers are solely responsible for comparing specific load values, fastener schedules, anchoring requirements, material specifications, and other factors when determining the suitability of use of any particular product. QuickTie™ makes no claim, stated or implied, of suitability for purpose or qualification for usage of our products that may be substituted for a specified product. Any specification, submittal, or change to a specified product should be approved in writing by the designer or Engineer of Record (EOR).

MiTek® and Simpson Strong-Tie® are registered trademarks of their respective companies, with which QuickTie™ is unaffiliated, and neither of whom endorse or approve use of their product names in this catalog as "reference numbers".

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(3) 2x10	3-ply	UL210-3	-	-	57
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	3-ply (IF)	ULP-IF210-3	-	-	
	3-ply	UM210-3	U210-3	SUH210-3	
	3-ply	UH210-3	HU210-3, HU210-3Z	HD210-3	
	3-ply (IF)	UH-IF210-3	HUC210-3, HUC210-3Z	HD210-3IF, HD210-3IFTZ	
2x12	1-ply	UL212	-	-	57
	1-ply	ULP212	-	-	
	1-ply	UM212	-	-	
	1-ply	UH212	HU212	HD212	
(2) 2x12	2-ply	UL212-2	-	-	57
	2-ply	ULP212-2	-	-	
	2-ply	UM212-2	-	-	
	2-ply	UH212-2	HUS212-2	HUS212-2	
	2-ply	UH-IF212-2	HUSC212-2, HUC212-2	HUS212-2IF, HD212-2IF	
(3) 2x12	3-ply	UL212-3	-	-	57
	3-ply	ULP212-3	-	-	
	3-ply	UM212-3	-	-	
	3-ply	UH212-3	HU212-3	HD212-3	
	3-ply	UH-IF212-3	HUC212-3	HD212-3IF	
3x6	1-ply	ULP36	LUS36, LUS36Z	JUS36, JUS36-TZ	58
	1-ply	UM36	U36	SUH36	
	1-ply	UH36	HU36	HD36	
	1-ply (IF)	UH-IF36	HUC36	HD36IF	
3x8	1-ply	ULP38	-	JUS38	58
	1-ply	UM38	-	-	
	1-ply	UH38	HU38	HD38	
	1-ply (IF)	UH-IF38	HUC38	HD38IF	
3x10	1-ply	ULP310	LUS310	JUS310	58
	1-ply	UM310	U310	SUH310	
	1-ply	UH310	HU310	HD310	
	1-ply (IF)	UH-IF310	HUC310	HD310IF	
3x12	1-ply	ULP312	-	-	58
	1-ply	UM312	-	-	
	1-ply	UH312	HU312	HD312	
	1-ply (IF)	UH-IF312	HUC312	HD312IF	

QuickTie™ Product Index

QT Products		QT	Reference Numbers		Page
			Simpson® Hardware (SH)	MiTek® Hardware (MH)	
Face Mount Joist Hangers Cont.					
4x6	1-ply	ULP46	LUS46, LUS46Z	JUS46, JUS46-TZ	58
	1-ply	UM46	U46	SUH46	
	Rough	UM46R	U46R	SUH46R	
	1-ply	UH46	HUS46	HUS46	
	1-ply (IF)	UH-IF46	HUSC46	HUS46IF	
4x8	1-ply	ULP48	LUS48, LUS48Z	JUS48, JUS48-TZ	58
	1-ply	UM48	-	-	
	Rough	UM48R	-	-	
	1-ply	UH48	HUS48	HUS48	
	1-ply (IF)	UH-IF48	HUSC48	HUS48IF	
4x10	1-ply	ULP410	LUS410, LUS410Z	JUS410, JUS410-TZ	58
	1-ply	UM410	U410	SUH410	
	Rough	UM410R	U410R	SUH410R	
	1-ply	UH410	HUS410	HUS410	
	1-ply (IF)	UH-IF410	HUSC410	HUS410IF	
4x12	1-ply	ULP412	-	-	58
	1-ply	UM412	-	-	
	Rough	UM412R	-	-	
	1-ply	UH412	HUS412	HUS412	
	1-ply (IF)	UH-IF412	HUSC412	HUS412IF	
2x6	1-ply	UHH26	HUS26, HUS26Z	HUS26, HUS26-TZ	59
(2) 2x6	2-ply	UHH26-2	HHUS26-2, HHUS26-2Z	THD26-2	
2x8	1-ply	UHH28	HUS28, HUS28Z	HUS28, HUS28-TZ	
(2) 2x8	2-ply	UHH28-2	HHUS28-2, HHUS28-2Z	THD28-2, THD28-2TZ	
2x10	1-ply	UHH210	HUS210, HUS210Z	HUS210, HUS210-TZ	
(2) 2x10	2-ply	UHH210-2	HHUS210-2, HHUS210-2Z	THD210-2, THD210-2TZ	
(3) 2x10	3-ply	UHH210-3	HHUS210-3	THD210-3	
(4) 2x10	4-ply	UHH210-4	HHUS210-4	THD210-4	
4x6	1-ply	UHH46	HHUS46, HHUS46Z	THD46, THD46-TZ	
4x8	1-ply	UHH48	HHUS48, HHUS48Z	THD48, THD48-TZ	
4x10	1-ply	UHH410	HHUS410, HHUS410Z	THD410, THD410-TZ	
6x10	1-ply SCL	UHH610	HHUS5.50/10	THD610	
7x10	1-ply SCL/Glulam	UHH7210	HHUS7.25/10	THD7210	
2x6	1-ply	UHD26	HGUS26	THDH26	60
(2) 2x6	2-ply	UHD26-2	HGUS26-2	THDH26-2	
(3) 2x6	3-ply	UHD26-3	HGUS26-3	THDH26-3	
(4) 2x6	4-ply	UHD26-4	HGUS26-4	THDH26-4	
2x8	1-ply	UHD28	HGUS28	THDH28	
(2) 2x8	2-ply	UHD28-2	HGUS28-2	THDH28-2	
(3) 2x8	3-ply	UHD28-3	HGUS28-3	THDH28-3	
(4) 2x8	4-ply	UHD28-4	HGUS28-4	THDH28-4	

QT Products		QT	Reference Numbers		Page
			Simpson® Hardware (SH)	MiTek® Hardware (MH)	
Face Mount Joist Hangers Cont.					
2x10	1-ply	UHD210	HGUS210	THDH210	60
(2) 2x10	2-ply	UHD210-2	HGUS210-2	THDH210-2	
(3) 2x10	3-ply	UHD210-3	HGUS210-3	THDH210-3	
(4) 2x10	4-ply	UHD210-4	HGUS210-4	-	
(3) 2x12	3-ply	UHD212-3	HGUS212-3	THDH212-3	
(4) 2x12	4-ply	UHD212-4	HGUS212-4	-	
(3) 2x14	3-ply	UHD214-3	HGUS214-3	THDH214-3	
(4) 2x14	4-ply	UHD214-4	HGUS214-4	-	
3x10	1-ply Glulam	UHD3210	HGUS3.25/10	THDH3210	
3x12	1-ply Glulam	UHD3212	HGUS3.25/12	THDH3212	
4x6	1-ply	UHD46	HGUS46	THD46	
4x8	1-ply	UHD48	HGUS48	THDH48	
4x10	1-ply	UHD410	HGUS410	THDH410	
(2) 4x10	2-ply	UHD7310	HGUS7.37/10	-	
4x12	1-ply	UHD412	HGUS412	THDH412	
(2) 4x12	2-ply	UHD7312	HGUS7.37/12	-	
4x14	1-ply	UHD414	HGUS414	THDH414	
(2) 4x14	2-ply	UHD7314	HGUS7.37/14	-	
6x8	1-ply SCL	UHD558	HGUS5.50/8	-	
6x10	1-ply SCL	UHD5510	HGUS5.50/10	-	
6x10G	1-ply Glulam	UHD5210	HGUS5.25/10	-	
6x12	1-ply SCL	UHD5512	HGUS5.50/12	-	
6x12G	1-ply Glulam	UHD5212	HGUS5.25/12	THDH612	
6x14	1-ply SCL	UHD5514	HGUS5.50/14	THDH614	
7x10	1-ply Glulam	UHD6810	HGUS6.88/10	THDH6710	
7x12	1-ply Glulam	UHD6812	HGUS6.88/12	THDH6712	
7x14	1-ply Glulam	UHD6814	HGUS6.88/14	THDH6714	
8x10	1-ply SCL/Glulam	UHD7210	HGUS7.25/10	THDH7210	
8x12	1-ply SCL/Glulam	UHD7212	HGUS7.25/12	THDH7212	
8x14	1-ply SCL/Glulam	UHD7214	HGUS7.25/14	THDH7214	
Screws		SWH	SDS	WS	61
		SWF	SDW	WSWH	
		SWT	SDWC	WSTS	
		SWL	SD	LL	

Product Testing and Approvals

The products shown in this catalog have been fully engineered and tested. Most products have been evaluated and approved by the model code agencies and are listed in the published evaluation reports (e.g., ICC-ESR, Technical Evaluation Reports (TER) from DrJ Engineering, LLC and Florida Statewide Product Approvals).

These reports prove that the products used on a project meet the requirements of building codes listed below.

- 2015, 2018 and 2021 International Building Code (IBC)
- 2015, 2018 and 2021 International Residential Code (IRC)
- 2014, 2017, 2020 and 2023 Florida Building Code (FBC - Building & Residential)
- 2018 North Carolina Building Code (NCBC - Building & Residential)

TER and FL approvals are issued and updated throughout the year or when necessary. Visit www.quicktie.com, www.drjengineering.org & www.floridabuilding.org to get the latest information.

EVALUATION REPORTS (TER & ICC ESR) & FLORIDA APPROVALS (FL)

Evaluation Reports	FL Approvals	Products
TER 0910-01	FL #13468	QuickTie™ System (QTS)-Wood
		QTB(L) Blue 3/16" QuickTie™
		QTG(L) Green 1/4" QuickTie™
		QTO(L) Orange 5/16" QuickTie™
		QTR(L) Red 3/8" QuickTie™
	FL #3557	QuickTie™ Connectors
		CS20-250, CS18-200, CS16-150 & CS14-100 Coil Strappings
		CMST16-54, CMST14-52.5 & CMST12-40 Coil Strappings
		HA4, HA6, HA8, HA10, QGC & QGCW Hurricane Anchors
		HGA & HGAM Gusset Angles
		METAS & HETAS Embedded Anchors
		MS & LS Straps
		MTS & HTS Twist Straps
		SC34, SC35 & SC35F Shear Clips/Flats
		PBA Post Base Anchors
		SPArtan™ Sill Plate Anchor
		PHGT & PHHGT Girder Tie Downs
		PCM & EPCM Post Caps
		PCS & PCES Post Cap Connectors
		LTT20, HDTT, HDTT3, QGCW, HD5, HDTT6, HD7, HD8, HD11, HD14 & HD22 Holdowns
		SWH, SWF, SWL & SWT Structural Wood Screws
TER 1404-06	FL #17106	QuickTie™ System (QTS) Post-Tensioned Concrete Masonry Wall Applications
		QTBM(L) Blue 3/16" QuickTie™
		QTGM(L) Green 1/4" QuickTie™
		QTOM(L) Orange 5/16" QuickTie™
		QTRM(L) Red 3/8" QuickTie™
TER 1506-20	–	QuickTie™ System (QTS) Portal Frame with Hold-Downs (PFH)
TER 1811-03	FL #3557	QuickTie™ U-Hanger Series
		UL, ULP/ULP-IF, UM & UH/UH-IF Series Face Mount Hangers
		TFLP & TFH Series Top Flange Hangers
ICC ESR-4467	–	QE-1 Adhesive Anchoring System For Cracked and Uncracked Concrete
ICC ESR-4865	–	QE-2 Adhesive Anchoring System For Cracked and Uncracked Concrete

CODE APPROVALS

TER 0910-01
(QuickTie™ Systems-Wood & QuickTie™ Connectors)

TER 1811-03
(QuickTie™ U-Hanger Series)

TER 1404-06
(QuickTie™ Systems-Masonry)

TER 1506-20
(QuickTie™ Systems-Portal Frame)

ESR-4467
(QE-1 Adhesive Anchoring System)

ESR-4865
(QE-2 Adhesive Anchoring System)

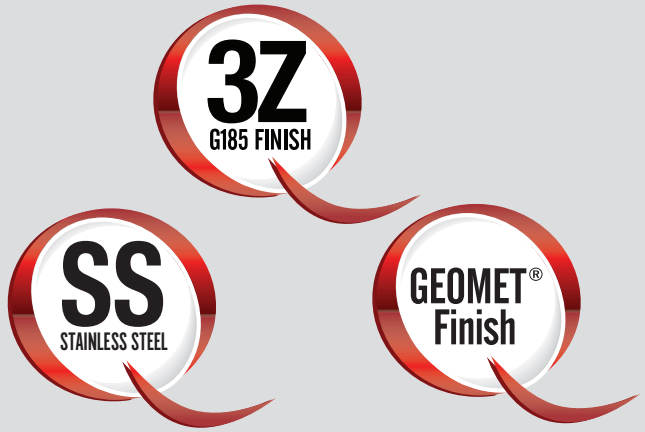
General Product Information

Allowable loads published in this catalog are determined by test criteria and calculations established by various industry standards (e.g., ASTM and AISI test procedures). For innovative products, QuickTie™ performs allowable load calculations based on rational engineering analysis along with extensive research and development efforts to confirm the product performance in the lab and the field.

QuickTie™ aims to provide solutions for complex problems, saving time and money for our valued customers, including contractors, installers, engineers, and others. Various patents assigned to QuickTie™ for wood and masonry structural applications are listed throughout this catalog.

To Protect the QT Parts From Any Corrosive Environment

- Most QT structural connectors are made from G185 [Triple Zinc (3Z) - superior to Hot Dip Galvanized (HDG) coating] coated structural steel (Stainless steel available). Stainless Steel (SS) connectors available upon request.
- All SPArtan™ anchors are coated with GEOMET® coating and Structural Wood Screws are coated with Dorken® coating.



For Identification Purposes

- Each individual QT part is marked with QT product name, QT logo and code compliance report #.
- The label on the shipping boxes includes the product identification details such as QT part number, QT logo, code compliance report #, quantity, installation instructions, etc

General Notes for Allowable Load Tables

1. Allowable loads are in pounds. SI Unit Conversions: 1" = 25.4 mm and 1 lbf = 4.5 N.
2. Unless noted otherwise, nails are common wire nails of the pennyweight noted in the tables. Nails shall comply with ASTM F1667 “Standard Specification for Driven Fasteners: Nails, Spikes, and Staples” and shall have the following minimum bending yield strengths, F_{yb}.

   8d, D = 0.131 in., F_{yb} = 100,000 psi

   10d, D = 0.148 in., F_{yb} = 90,000 psi

   16d, D = 0.162 in., F_{yb} = 90,000 psi
3. Nails designated as 8d x 1-1/2 are assumed to be 0.131" x 1.5" nails, nails designated as 8d or 8d common are assumed to be 0.131" x 2.5" nails, nails designated as 10d x 1-1/2 are assumed to be 0.148" x 1.5" nails, and nails designated as 10d or 10d common are assumed to be 0.148" x 3" nails. The number of fasteners shown is the minimum required to achieve the loads shown.
4. Tabulated allowable loads listed for a load duration factor of 1.00 (i.e. “Normal” load duration) are to be used in applications in which the shortest load duration in the combination of loads is 10-years. These values may be increased for applications in which the governing load duration factor is 1.15 or 1.25 in accordance with latest edition of the National Design Specification for Wood Construction (NDS®) up to the tabulated allowable loads for load duration factors of 1.33 and 1.60 or in accordance with the building code adopted by the jurisdiction in which the project is to be constructed.
5. The allowable loads included in this catalog are for QuickTie™ Connectors only. All framing members shall be designed in accordance with the building code adopted by the jurisdiction in which the project is to be constructed.
6. Load capacities in the design tables are valid for the species shown. For other species, adjust values in accordance with the latest NDS®.
7. Unless indicated otherwise, the allowable loads provided in this catalog assume the connector is attached to a wood member with a minimum nominal thickness of 2".
8. Allowable simultaneous loads in more than one direction on a single connector must be evaluated using the following equation:

$$\frac{\text{Design Uplift Load}}{\text{Allowable Uplift Load}} + \frac{\text{Design Load Parallel to Wall Plate}}{\text{Allowable Load Parallel to Wall Plate}} + \frac{\text{Design Load Perpendicular to Wall Plate}}{\text{Allowable Load Perpendicular to Wall Plate}} \leq 1.0$$

   The building designer is responsible for determining the simultaneous loading conditions.
9. When cross-grain bending or cross-grain tension cannot be avoided in the members, mechanical reinforcement to resist such forces should be considered.

SPArtan™ SILL PLATE ANCHOR

The Most Efficient and Cost Effective Sill Plate Anchor on the Market!

GEOMET® Finish

KEY ADVANTAGES OF SPArtan™ ANCHORS:

- **Less Expensive -** Saves money and time on each job. Needs only one drill bit. Built in washer eliminates assembly.
- **Stronger -** Requires fewer anchors compared to traditional anchors. Less disturbance to the concrete.
- **Faster and Easier To Install -** No epoxy and no washer required. Easy and quick to screw in concrete. No need to change bits.
- **Geomet® Finish -** Coated with Geomet [superior to hot-dip galvanizing (HDG)] for permanent exterior and corrosive environments.

SPArtan™ Installation Video

Quick Tie Products, Inc.
quicktie.com

MAIN OFFICE:
13300 Vantage Way
Jacksonville, FL 32218
Phone: (904) 281-0525
info@quicktieproducts.com

SPArtan™ SILL PLATE ANCHOR (U.S. PATENT NO. 11,236,775)

PRODUCT FEATURES:

SPArtan™ Sill Plate Anchors are post-installed anchors used to attach the sill plate of a wood framed wall to a concrete foundation/curb and rim boards to concrete/CMU walls. SPArtan™ anchors are made from carbon steel wire and have a smooth shank shoulder (5/8" diameter x 1-1/2" long) at the top for sill plate and rim board attachments. This transitions into a threaded shank (3/8" diameter x 6" long) for concrete foundation/curb and concrete/CMU wall attachments. The head is comprised of a 1-1/4" diameter flange and a 3/8" square recess for easy anchor installation. SPArtan™ anchors are designed to resist shear and tension loads due to wind and seismic forces in cracked and uncracked concrete.

MATERIAL:
Hardened Carbon steel

COATING:
GEOMET®, Superior to HDG

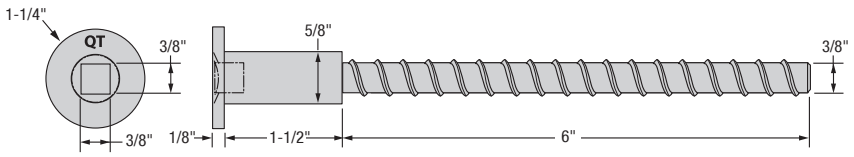
INSTALLATION:
See below

CODE COMPLIANCE:
TER 0910-01, FL 3557

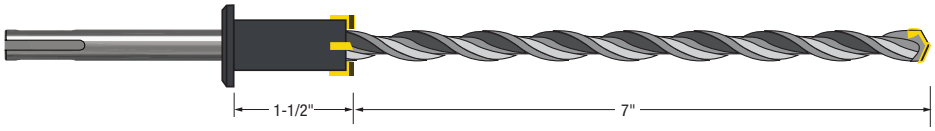
QuickTie SPArtan™ SILL PLATE ANCHOR

GEOMET® Finish

SPArtan™ Installation Video



SPA67



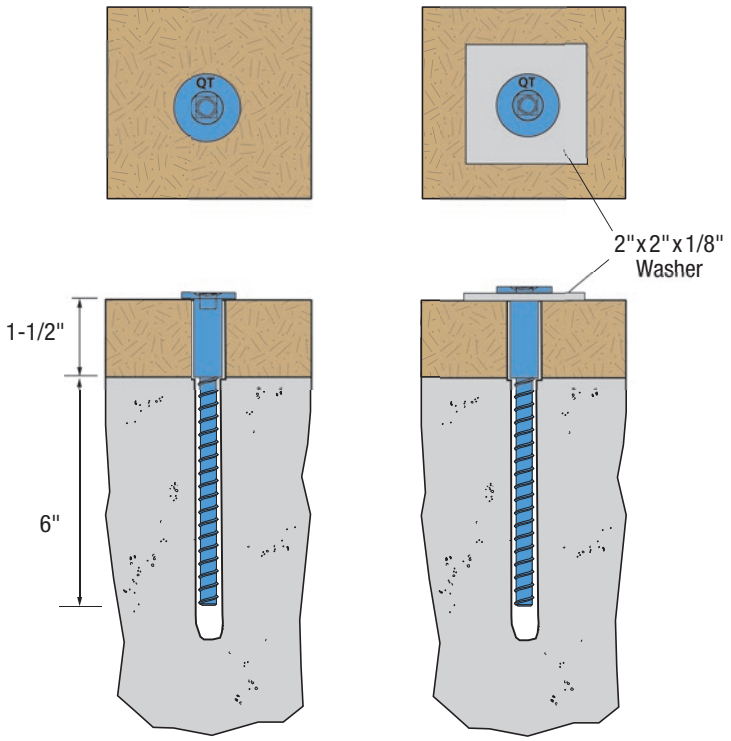
DBMSPA67

PART NO.	CARTON QTY.
SPA67-100DB	100 SPArtan™, 1 SPArtan™ Drill Bit
SPA67-100	100 SPArtan™
SPA67-50	50 SPArtan™
DBMSPA67	1 SPArtan™ Drill Bit

CAUTION: Use of the SPArtan™ Drill Bit is recommended. Oversizing of holes drilled in either the wood sill plate or concrete will reduce the load capacity of the anchor. The SPArtan™ Drill bit is a proprietary, carbide-tipped step bit, custom designed for the installation of the SPArtan™ anchors.

SPArtan™ ANCHOR ALLOWABLE SHEAR VALUES (ASD)

Applied Load	Allowable Loads (LB)[1-6]	
	Load Direction	Slab/Curb[7]
Shear	Parallel to Wood Grain (F_1)	1,395
	Perpendicular to Wood Grain (F_2)	665
Tension	Uplift (U)	1,155
	Uplift (U) with Washer[8]	1,705



NOTES:

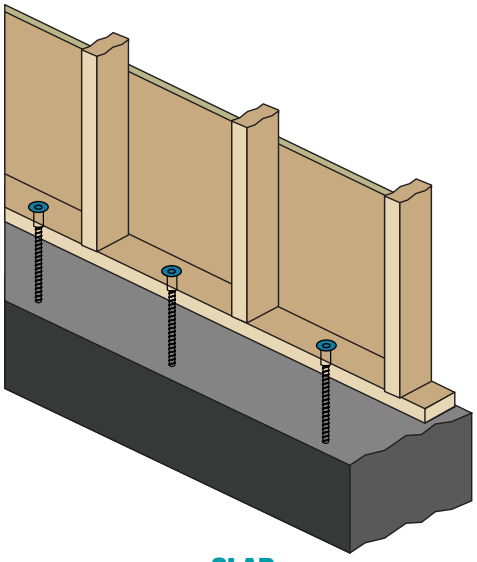
1. Tabulated values are applicable to uncracked concrete and pressure treated Southern Pine #2 lumber.
2. Allowable load values are determined using a conversion factor (ASD) of 1.6. The conversion factor is based on the controlling load case: (0.9D + W) / (0.6D + 0.6W), where Dead Load (D) = 30% and Wind Load (W) = 70%. Adjustments shall be made where other load combinations control.
3. Anchor design conforms to ACI 318 with no supplementary reinforcement considered.
4. Anchor bending yield strength, F_{yb} = 100,000 psi and concrete dowel bearing strength, F_e = 7,500 psi.
5. Allowable loads are provided for a 1.6 load duration (C_D). No further increases are permitted.
6. Allowable loads use a wet service factor C_M = 0.7 (M.C. > 19%). No further reduction required.
7. Minimum Requirements: Edge distance = 2.25 inches, End distance = 6 inches, Spacing = 6.75 inches, Embedment depth = 6 inches, Curb width = 6 inches, Slab/Curb depth = 9 inches and Concrete compressive strength = 2,500 psi.
8. Washer size is 2 inch x 2 inch x 1/8 inch.

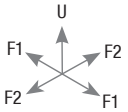
SPArtan™ ANCHOR SPACING EQUIVALENTS FOR EPOXY ANCHOR

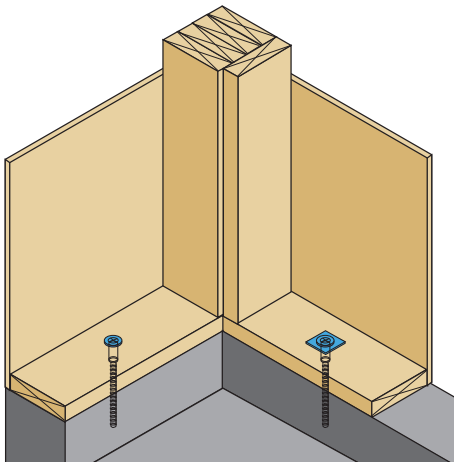
Epoxy Anchor Size	Epoxy Anchor Spacing					
	16"	24"	32"	36"	40"	48"
	Equivalent SPArtan™ Anchor Spacing (in.)					
1/2"	30	45	61	68	76	91
5/8"	21	32	42	48	53	64

NOTES:

1. Tabulated values are based on the lateral resistance of sill plate (SP #2, PT) connection when loaded parallel to grain.
2. Minimum requirements: Threaded rod length = 6"; Embedment depth = 3.5"; Edge distance = 2.25", End distance = 6"; Concrete compressive strength = 2,500 psi and Sill plate thickness = 1.5".
3. Engineer-of-Record (EOR) to check anchor spacing limits for out-of-plane bending and deflection of sill plate.



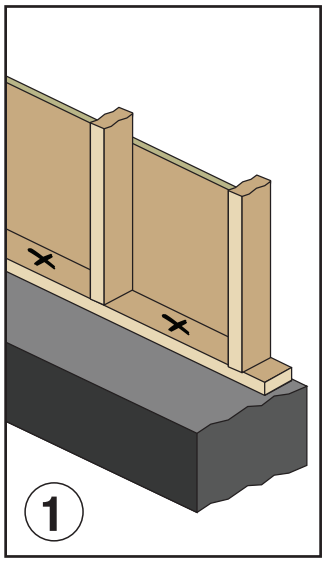


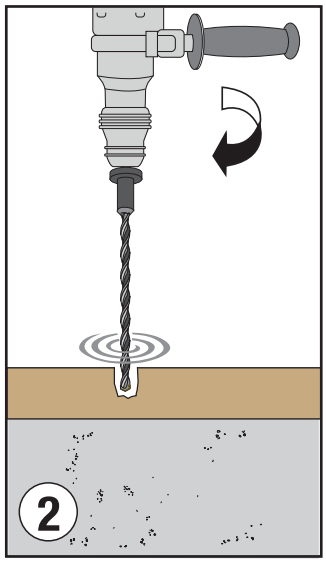


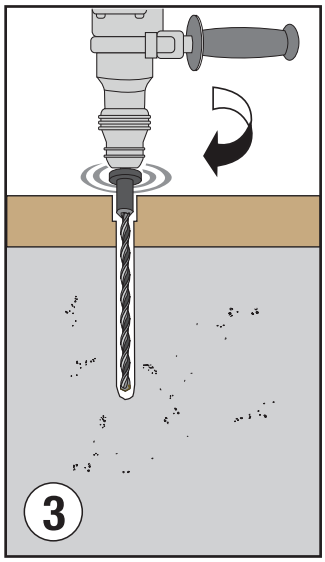
SLAB **CURB**

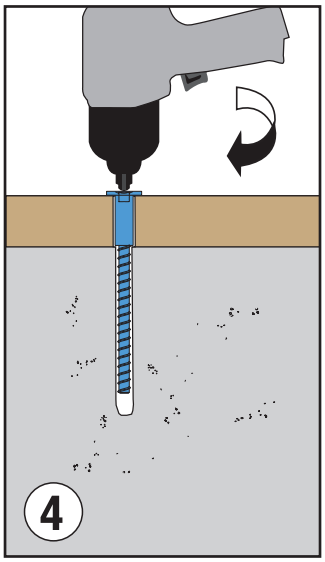
INSTALLATION INSTRUCTIONS

1. Clean the top surface of sill plate and mark the SPArtan™ anchor location(s).
2. Use a rotary hammer drill and SPArtan™ stepped drill bit (sold by Quick Tie Products, Inc.) to drill a hole in the sill plate. Stop and remove wood dust as necessary.
3. Once the drill bit hits concrete, take precaution not to overwork the drill and/or drill bit. Intermittently, stop and clean concrete dust from the hole. If necessary, use compressed air (or other means) to remove debris around hole. Stop drilling when the wood bit stopper hits the top surface of sill plate. Over drilling may damage the carbide tips of wood bit.
4. Install SPArtan™ anchor using an impact drill with 3/8" square drive bit. Stop once the anchor flange hits the top surface of sill plate.









CAUTION: APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) MUST ALWAYS BE WORN

FORM TIE (FT8) AND FORM WEDGE (FTW) (U.S. PATENT NO. 9,834,945)

PRODUCT FEATURES:

Form Tie (FT8) and Form Wedge (FTW) anchors provide easy installation for the foundation contractor or framer. They can be used in either stem walls or slabs. They are easily attached to the form prior to placement of concrete.

MATERIAL:

FT8 - 16 gauge

FTW - 12 gauge

COATING:

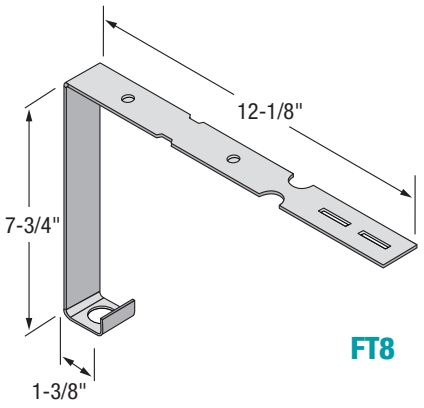
Galvanized

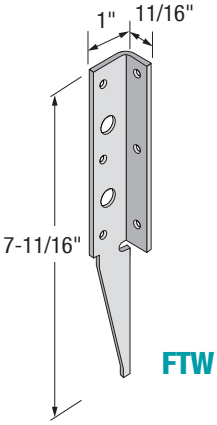
INSTALLATION:

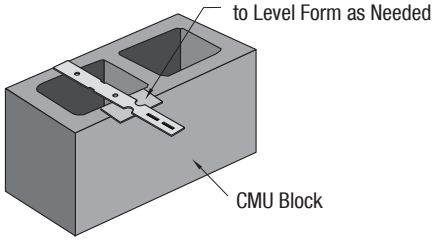
Scan QR code on top right.

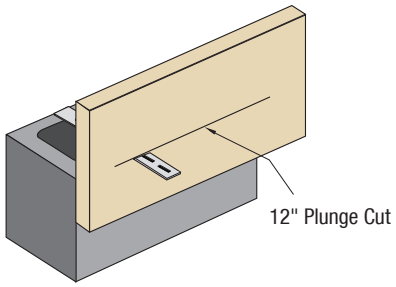
Form Tie Installation Video

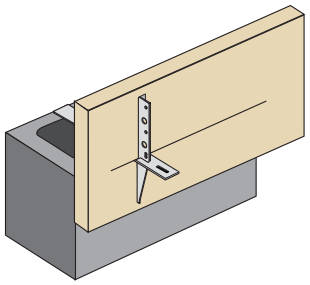
PART NO.	CARTON QTY.
FT8	72
FTW	100

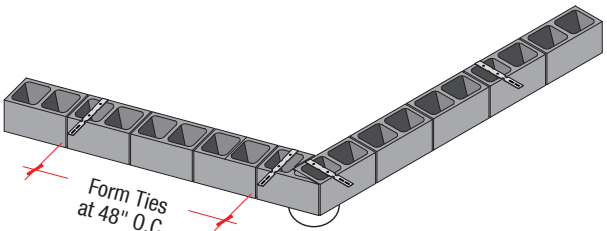


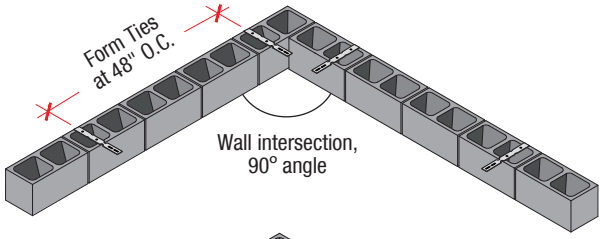


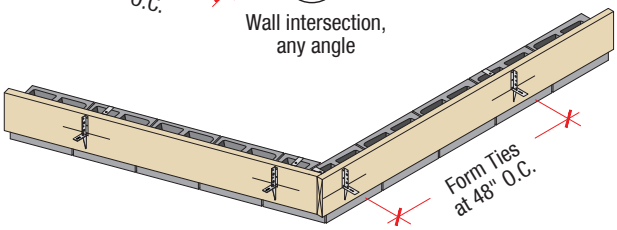


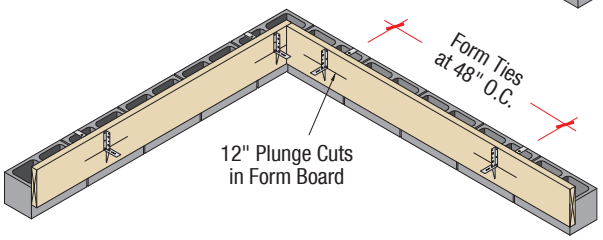


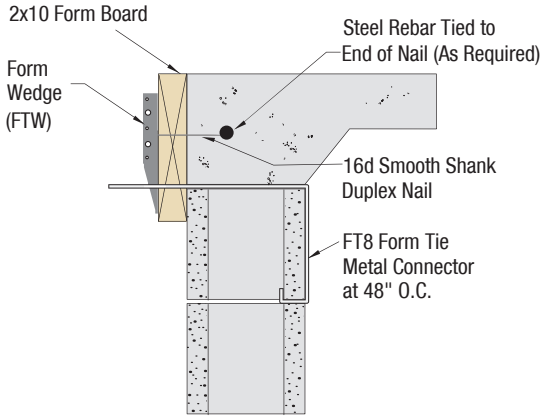




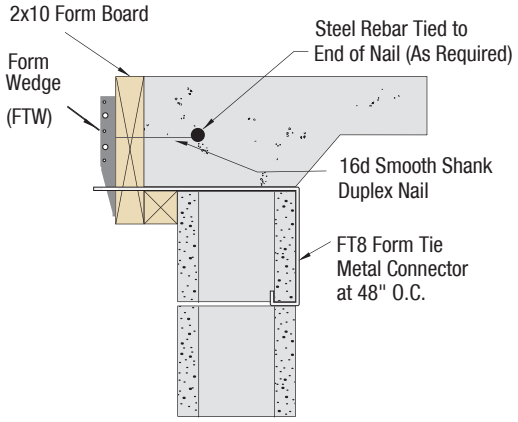








CMU Stem Wall - Edge of Slab



CMU Stem Wall - Extended Edge of Slab

ANCHOR CHAIR (AC33)

PRODUCT FEATURES:

Anchor Chair (AC33) is utilized for the precise and easy placement of wet set/cast-in-place anchor rods in elevated slabs.

MATERIAL:

16 gauge

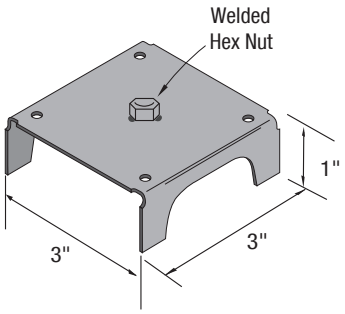
COATING:

None

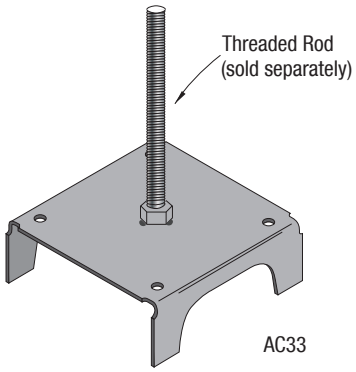
INSTALLATION:

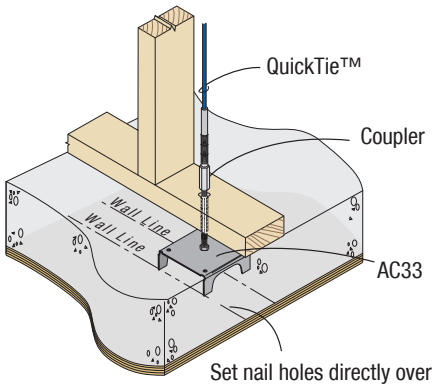
- Align nail holes over chalk line and nail to form.
- Install desired size anchor rod to AC33.

Part No.	Description
AC33.37	Anchor Chair with 3/8" Welded Hex Nut
AC33.5	Anchor Chair with 1/2" Welded Hex Nut
AC33.62	Anchor Chair with 5/8" Welded Hex Nut
AC33.75	Anchor Chair with 3/4" Welded Hex Nut
AC33.87	Anchor Chair with 7/8" Welded Hex Nut
AC33.1.0	Anchor Chair with 1" Welded Hex Nut
AC33.1.12	Anchor Chair with 1-1/8" Welded Hex Nut
AC33.1.25	Anchor Chair with 1-1/4" Welded Hex Nut



AC33





Set nail holes directly over chalk lines to align AC33 below wall, and place anchor in center of wall

ANCHOR BOLT

PRODUCT FEATURES:

Anchor bolts [ABG(L), ABO(L) & ABR(L)] are cast-in-place foundation anchors used to resist high wind uplift when assembled using QuickTie™ Couplers and QuickTie™ Cables (QTG, QTO & QTR).

Anchor bolts in bent forms are available for the applications where edge distance cannot be met.

ASSEMBLY:

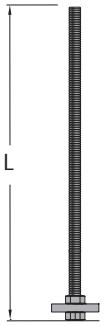
Threaded Rod - ASTM A36 Steel, Zinc Plated
Hex Nut - Grade 2, Zinc Plated
Square Washer - ASTM A653 Grade 33 Steel, Galvanized (G90); ASTM A36 Steel, None or Zinc Plated
Coupler - Grade 2, Zinc Plated

INSTALLATION:

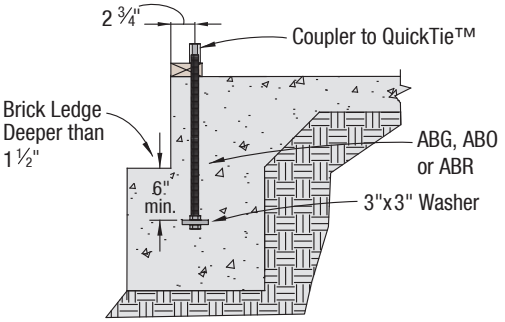
- Concrete should be a minimum of 2,500 psi.
- Install anchor bolt at required edge distance and embedment depth.

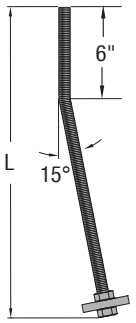
Part No.	Length (L)*	Description
ABG21Z	21"	1/2" Rod, 3" x 3" Washer, Hex Nuts & Coupler
ABG21BZ	21"	1/2" Rod (Bent), 3" x 3" Washer, Hex Nuts & Coupler
ABO21Z	21"	5/8" Rod, 3" x 3" Washer, Hex Nuts & Coupler
ABO21BZ	21"	5/8" Rod (Bent), 3" x 3" Washer, Hex Nuts & Coupler
ABR21Z	21"	3/4" Rod, 3" x 3" Washer, Hex Nuts & Coupler
ABR21BZ	21"	3/4" Rod (Bent), 3" x 3" Washer, Hex Nuts & Coupler
ABR24Z	24"	3/4" Rod, 3" x 3" Washer, Hex Nuts & Coupler
ABR24BZ	24"	3/4" Rod (Bent), 3" x 3" Washer, Hex Nuts & Coupler

*Other lengths available upon request

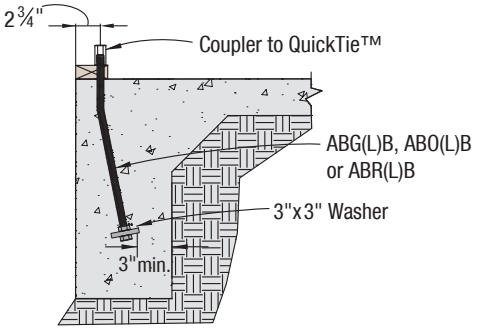


ABG(L)
ABO(L)
ABR(L)





ABG(L)B
ABO(L)B
ABR(L)B



Use this detail when the min. edge distance cannot be accomplished

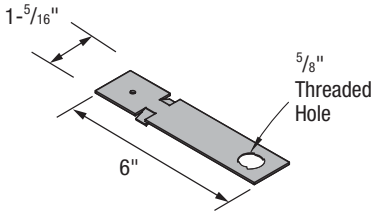
ANCHOR BOLT ASSEMBLY (ABA)

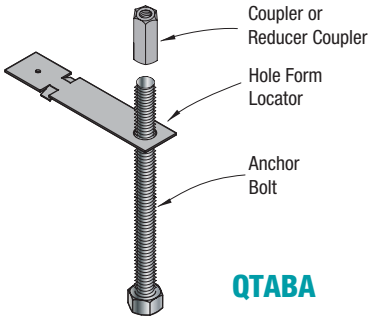
PRODUCT FEATURES:

Anchor Bolt Assembly (ABA) holds the anchor in place before pouring the concrete for both concrete slab/foundation and CMU wall applications (coupling application for QT cables).

ASSEMBLY:

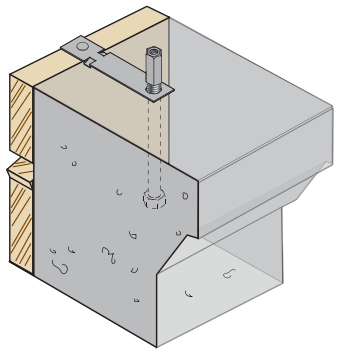
Hole Form Locator - 20 Gauge, Galvanized (G90)
Threaded Rod - ASTM A36 Steel, Zinc Plated
Hex Nut - Grade 2, Zinc Plated
Couplers - Grade 2, Zinc Plated





QTABA

Part No.	Description
QTABA-Blue	Hole Form Locator, 5/8" Anchor Bolt & Reducer Coupler
QTABA-Green	Hole Form Locator, 5/8" Anchor Bolt & Reducer Coupler
QTABA-Orange	Hole Form Locator, 5/8" Anchor Bolt & Coupler
QTABA-Red	Hole Form Locator, 5/8" Anchor Bolt & Reducer Coupler



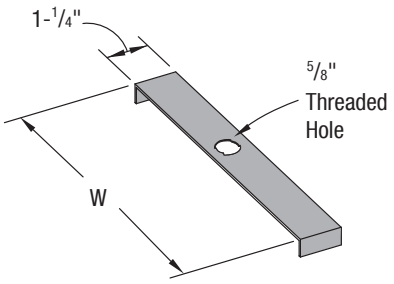
CMU SADDLE ASSEMBLY

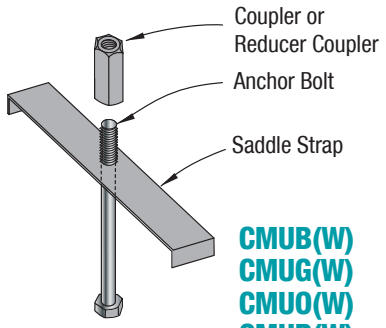
PRODUCT FEATURES:

The CMU Saddle Assembly is designed to allow for easy installation and placement of Anchor Bolts when used with QuickTie™ Cables in concrete masonry wall applications. The CMU Saddle Assembly comes in eight different sizes to cover the four QuickTie™ sizes and 8" and 12" wide masonry walls. Each CMU Saddle Assembly includes saddle strap, anchor bolt and coupling.

ASSEMBLY:

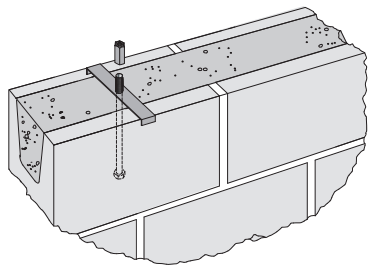
Saddle Strap - 20 Gauge, Galvanized (G90)
Anchor Bolt - ASTM A36 Steel, Zinc Plated
Couplers - Grade 2, Zinc Plated





CMUB(W)
CMUG(W)
CMUO(W)
CMUR(W)

Part No.	Width (W)	Description
CMUB8	7-5/8"	8" CMU Wall, 20 Ga. Strap, 5/8" Anchor Bolt & Reducer Coupler
CMUB12	11-5/8"	12" CMU Wall, 20 Ga. Strap, 5/8" Anchor Bolt & Reducer Coupler
CMUG8	7-5/8"	8" CMU Wall, 20 Ga. Strap, 5/8" Anchor Bolt & Reducer Coupler
CMUG12	11-5/8"	12" CMU Wall, 20 Ga. Strap, 5/8" Anchor Bolt & Reducer Coupler
CMUO8	7-5/8"	8" CMU Wall, 20 Ga. Strap, 5/8" Anchor Bolt & Coupler
CMUO12	11-5/8"	12" CMU Wall, 20 Ga. Strap, 5/8" Anchor Bolt & Coupler
CMUR8	7-5/8"	8" CMU Wall, 20 Ga. Strap, 5/8" Anchor Bolt & Reducer Coupler
CMUR12	11-5/8"	12" CMU Wall, 20 Ga. Strap, 5/8" Anchor Bolt & Reducer Coupler



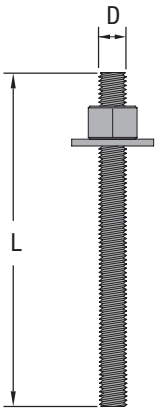
EPOXY ANCHORS

PRODUCT FEATURES:

Epoxy Anchors are used as foundation anchors to resist shear and wind uplifts.

ASSEMBLY:

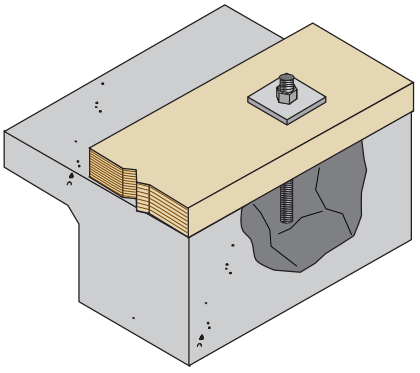
Threaded Rod - ASTM A36 Steel, Zinc Plated
Hex Nut - Grade 2, Zinc Plated
Square Washer - ASTM A653 Grade 33 or A36 steel, Galvanized (G90) or Zinc Plated.



EA

Part No.	Rod Size (D)	Length (L)*	Description
EA.5x6NS	1/2"	6"	1/2" x 6" Threaded Rod, Hex nut and 2 x 2 washer
EA.5x8	1/2"	8"	1/2" x 8" Threaded Rod, Hex nut and 2 x 2 washer
EA.625x6	5/8"	6"	5/8" x 6" Threaded Rod, Hex nut and 2 x 2 washer
EA.625x8	5/8"	8"	5/8" x 8" Threaded Rod, Hex nut and 2 x 2 washer

***Other sizes and lengths available upon request**



PBA SERIES

PRODUCT FEATURES:

Post Base Anchors (PBA) are used to attach the base of a wood post to a concrete foundation. The PBAs are comprised of a Post Base Strap and a Stand-Off (SO) plate. The SO plate is designed to provide a 1-inch clearance between the bottom of the wood post and top of foundation in order to meet IBC Section 2304.12 and IRC Section R317 requirements for protection of wood-based products against decay.

MATERIAL:

PBA Strap & SO - 12 Gauge

COATING:

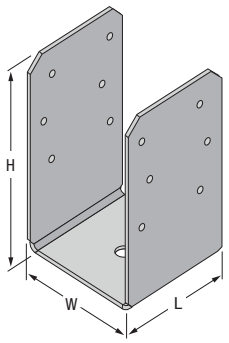
Galvanized (G185)

INSTALLATION:

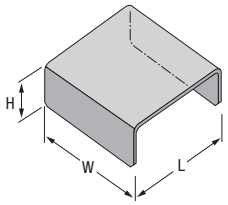
- Use all specified fasteners in schedule to achieve allowable load values.
- The designer or specifier shall check the requirements and capacity of wood post and concrete for resisting gravity and uplift loads.
- Nails (16d common) and anchor assembly (5/8" threaded rod, heavy hex nut, 2-3/4" x 2-3/4" x 3/8" washer and epoxy) are NOT included.
- Clean concrete surface, place Post Base Strap in position, mark the anchor bolt hole locations and drill holes using appropriate bit and drill.
- Replace Post Base Strap and install specified anchors with hex head or nut on top of the square washer.
- Place Stand Off Plate over hex nuts and position wood post on top.
- Attach Post Base Strap to wood post using 16d common nails on both sides.

CODE COMPLIANCE:

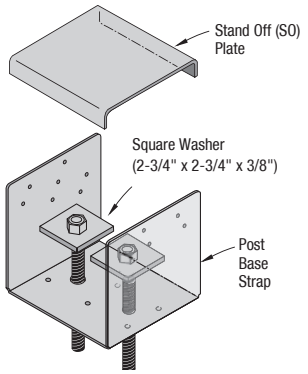
TER 0910-01; FL 3557



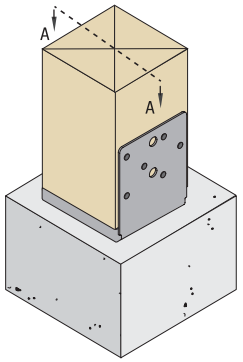
POST BASE STRAP

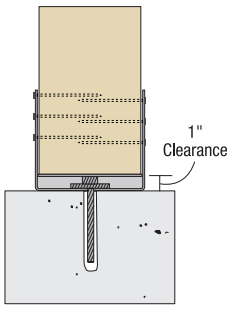


STAND-OFF (SO) PLATE

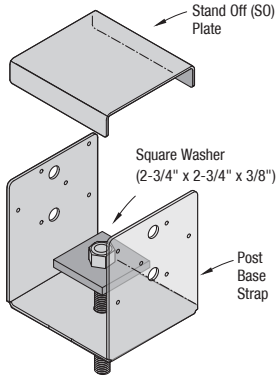


(PBA77/88 shown)





Section A-A



(PBA66 shown, PBA44/46 similar)

ALLOWABLE LOADS FOR POST BASE ANCHORS (LB)[1]

Part No.		Strap Dimensions (in.)			Nominal Post Size	Fasteners				Southern Pine (0.55) or Douglas Fir-Larch (0.50)	
		Width	Length	Height		Post		Anchor		Bearing	Uplift
		W	L	H		Qty	Size	Qty	Size	C_D = 1.0	C_D = 1.6
PBA44	STRAP	3-9/16	3-1/2	5-1/2	4x4	12	16d	1	5/8	11,140	2,335
	SO	3-1/2	3-1/2	1							
PBA46	STRAP	3-9/16	5	6	4x6	12	16d	1	5/8	13,000	2,335
	SO	3-1/2	5	1							
PBA66[2]	STRAP	5-1/2	5	6	6x6	12	16d	1	5/8	16,485	2,335
	SO	5-7/16	5	1							
PBA77	STRAP	7-1/8	7-1/16	7-1/4	7x7	14	16d	2	5/8	16,485	3,590
	SO	7	7	1							
PBA88	STRAP	7-1/2	7-1/16	7-1/16	8x8	14	16d	2	5/8	27,065	3,590
	SO	7-3/8	7	1							

NOTES:

1. Allowable load values provided are for wet service condition, no further reduction required.
2. With 10 ga Post Base Strap, the allowable bearing and uplift loads are 16,485 lb and 2,545 lb.

HD SERIES

PRODUCT FEATURES:
Holdowns (HD) are used to resist uplift forces due to wind or overturning of shear walls. These are available in various sizes to meet the light to heavy load requirements using nails, screws and bolts as fasteners.

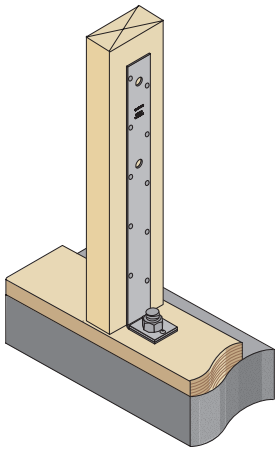
Other HD applications include purlin-to-purlin, Concrete/ Masonry walls to decking or flooring attachments.

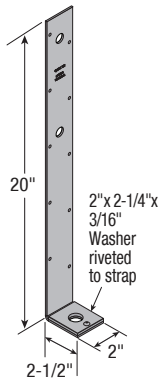
MATERIAL:
See Allowable Loads Table.

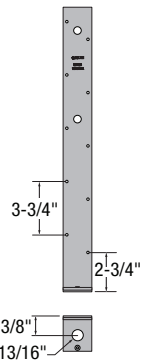
COATING:
Galvanized (G185) - LTT20, HDTT, HDTT3, HDTT6, HD5, HD7, HD8 & HD11
Spray Painted Primer (gray) - HD14 & HD22

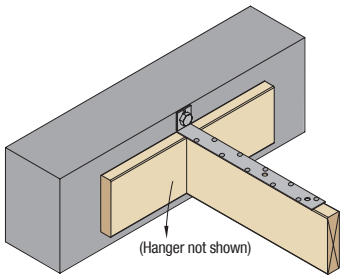
INSTALLATION:
- Use all specified fasteners in schedule to achieve values indicated

CODE COMPLIANCE:
TER 0910-01; FL 3557



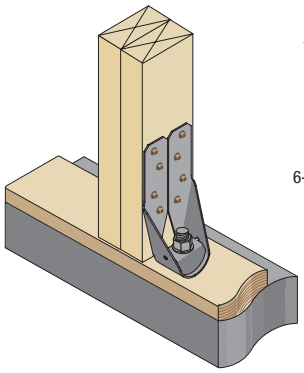


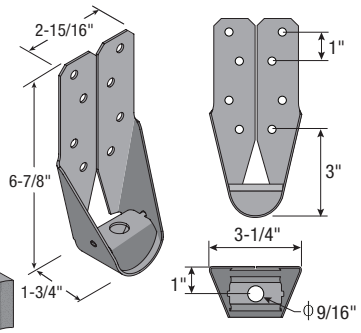




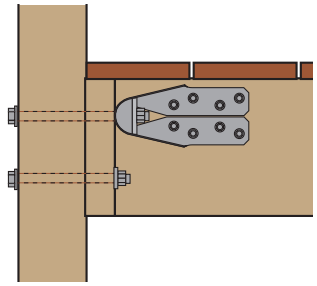
LTT20 as Tension Tie

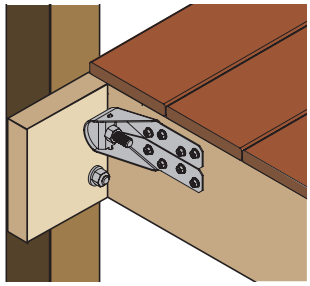
LTT20



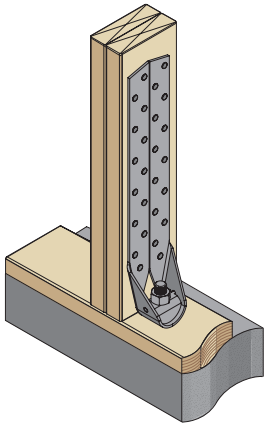


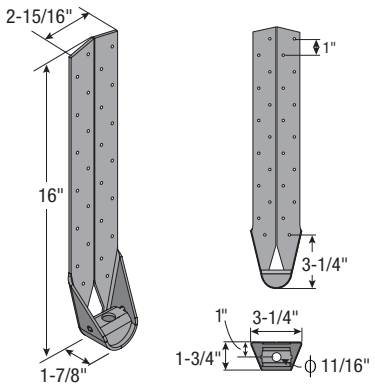
HDTT & HDTT3
Part includes bend washer and structural wood screws)



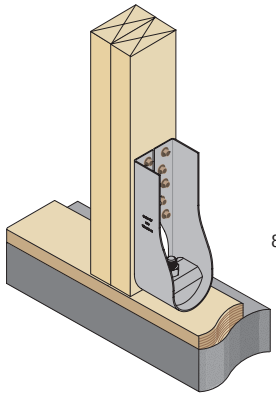


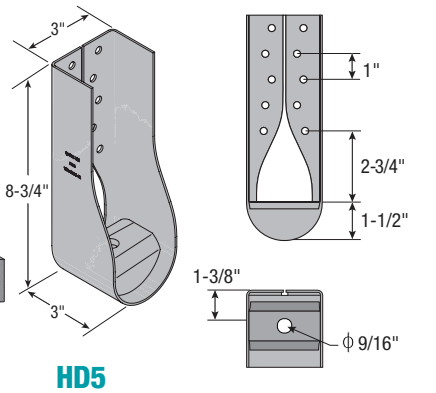
HDTT as Deck Tension Tie



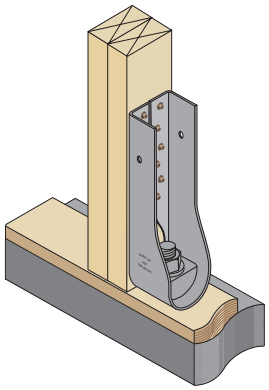


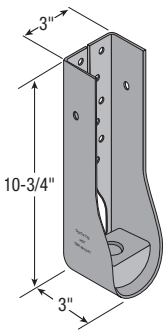
HDTT6

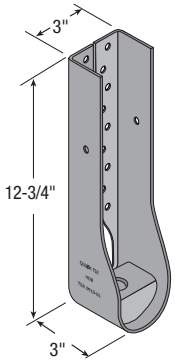


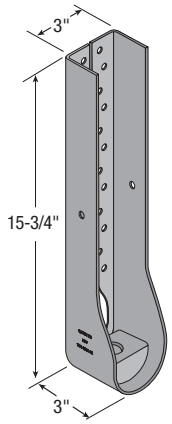


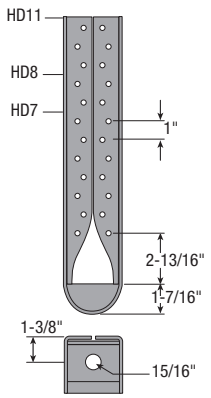
HD5
(Part includes bend washer and structural wood screws)



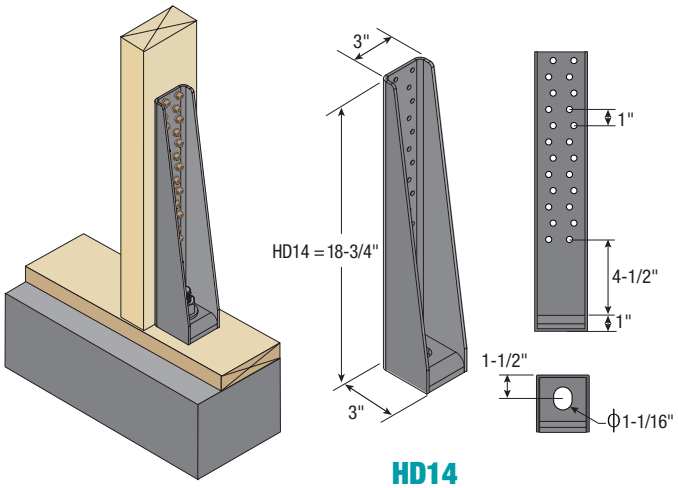








HD7 **HD8** **HD11**
(Part includes bend washer and structural wood screws)



HD14
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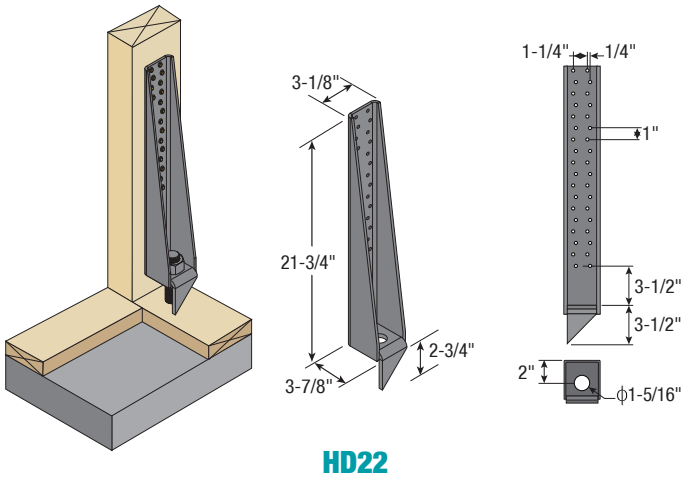


HD22
(Part includes structural wood screws)

ALLOWABLE LOADS FOR HOLDOWNS (LB)

PART NO.[1,2]			QUICKTIE™ PART ATTRIBUTES																	
			STEEL THICK. [3,4] (GA)		DIMENSIONS (IN.)						FASTENERS [5,6]				ALLOWABLE LOAD VALUES					
											Nails / Screws / Bolts		Anchor Bolt		SP (SG = 0.55)		DF-L (SG = 0.50)		S-P-F (SG = 0.42)	
QuickTie™	Reference No.		Strap	Washer	Height H	Width W	Depth D	Stud Face to Anchor CL	Top of Bottom Plate to Top of Washer	Min. Wood Member Size [2] (in.)	Qty	Type / Size	Qty	Size	C_D = 1.6		C_D = 1.6		C_D = 1.6	
	Simpson® Hardware (SH)	MiTek® Hardware (MH)													Uplift (lb)	Δ (in.)	Uplift (lb)	Δ (in.)	Uplift (lb)	Δ (in.)
LTT20	LTT20B	LTS20B	12 ga	7 ga	20	2	2-1/2	1-3/8	9/32	(2) 2x4	10	10dx1-1/2	1	3/4"	1,680	0.194	1,575	0.186	1,375	0.172
HDTT	DTT2Z, DTT2Z-SDS2.5	DTB-TZ	14 ga	14 ga	6-7/8	3-1/4	1-3/4	1	1-1/8	2x4	8	SWH15	1	1/2"	2,300	0.190	2,055	0.149	1,525	0.088
HDTT3	HDU2-SDS2.5, HD3B	PHD2A, TDX2-TZ	12 ga	10 ga	6-7/8	3-1/4	1-3/4	1	1-3/16	(2) 2x4	8	SWH3	1	1/2"	3,475	0.074	3,210	0.067	2,770	0.055
HDTT6	HTT4, HTT5	HTT45	10 ga	7 ga	16	3-1/4	1-7/8	1	1-1/4	(2) 2x4	26	16dx2-1/2	1	5/8"	5,480	0.145	5,480	0.145	4,895	0.129
HD5	HDU4-SDS2.5	PHD4A	14 ga	3 ga	8-3/4	3	3	1-3/8	1-1/2	(2) 2x4	10	SWH3	1	1/2"	5,885	0.197	5,445	0.181	2,080	0.059
HD7	HDU5-SDS2.5	PHD5A	12 ga	3 ga	10-3/4	3	3	1-3/8	1-1/2	(2) 2x4	14	SWH3	1	7/8"	7,280	0.102	6,980	0.098	4,845	0.069
HD8	HDU8-SDS2.5	PHD8	12 ga	3 ga	12-3/4	3	3	1-3/8	1-1/2	(2) 2x6	18	SWH3	1	7/8"	8,390	0.065	7,755	0.059	6,325	0.043
HD11	HDQ8-SDS3, HDU11-SDS2.5, HHDQ11-SDS2.5	UPHD8, UPHD9	12 ga	3 ga	15-3/4	3	3	1-3/8	1-1/2	(2) 2x4	24	SWH3	1	7/8"	11,855	0.118	11,080	0.112	8,305	0.088
										4x6	24	SWH3	1	7/8"	12,755	0.139	12,755	0.139	8,310	0.085
HD14	HHDQ14-SDS2.5	---	7 ga	3/8" Flat	18-3/4	3	3-1/2	1-1/2	1	4x6	30	SWH3	1	1"	14,120	0.095	14,060	0.095	11,170	0.075
HD22	HD19, HDU14-SDS2.5	TD15, UPHD11, UPHD14	7 ga	3/8" Point	24-1/2	3-1/8	3-7/8	2	3-1/2	4x6	36	SWH3	1	1-1/4"	22,245	0.087	20,115	0.078	14,280	0.053

NOTES:

1. Anchor bolt installation into any substrates should be designed to resist the allowable uplift loads.
2. Holdowns shall be installed into the wide face of the wood member in order to achieve the tabulated allowable load values.
3. Refer to page 61 for structural wood screw SWH3 (1/4" x 3") and SWH15 (1/4" x 1-1/2") details.
4. Bend washer (3/8" flat) welded to bend strap around perimeter with 1" offset from the base.
5. Bend washer (3/8" point) welded to bend strap around perimeter with 3-1/2" offset from the base.
6. These Reference Numbers above are for the purpose of enabling our customers to identify the QuickTie™ alternative to specified product names, but the attributes of the products references (particularly load values) may differ from the QuickTie™ part. Please note that product comparison via Reference Numbers is for general application comparison only. Reference Numbers should not be used as an apples-to-apples substitution tool. Customers are solely responsible for comparing specific load values, fastener schedules, anchoring requirements, material specifications, and other factors when determining the suitability of use of any particular product. QuickTie™ makes no claim, stated or implied, of suitability for purpose or qualification for usage of our products that may be substituted for a specified product. Any specification, submittal, or change to a specified product should be approved in writing by the designer or Engineer of Record (EOR). MiTek® and Simpson Strong-Tie® are registered trademarks of their respective companies, with which QuickTie™ is unaffiliated, and neither of whom endorse or approve use of their product names in this catalog as “reference numbers”.

PAS SERIES

PRODUCT FEATURES:

QuickTie™ Purlin Anchor Straps (PAS) are used for joist to concrete or CMU wall attachment and foundation applications.

MATERIAL:

PAS Series - 12 Gauge

COATING:

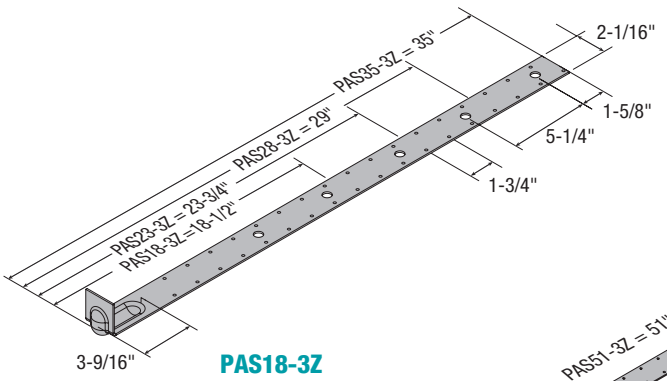
Galvanized (G185)

INSTALLATION:

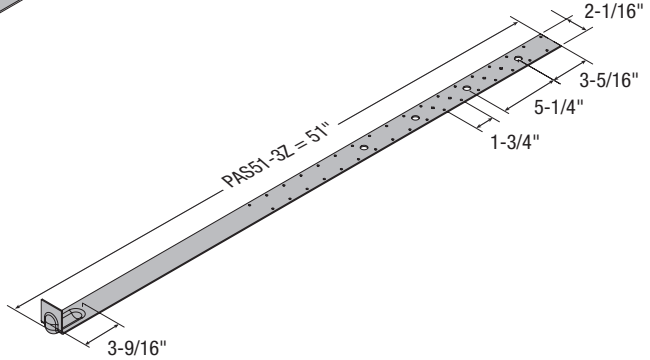
- Use all specified fasteners in schedule to achieve the values indicated.
- PAS Series requires a minimum of 4" and 6" embedment into the concrete and CMU walls, respectively.
- Minimum concrete compressive strength is 2,500 psi.

CODE COMPLIANCE:

Call QT for code approval information.



PAS18-3Z
PAS23-3Z
PAS28-3Z
PAS35-3Z



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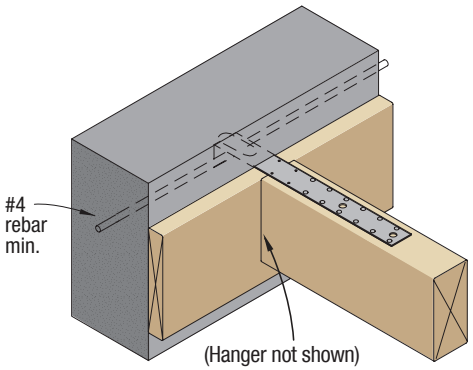
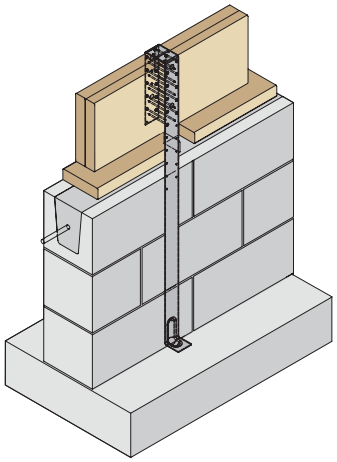


Purlin-to-Wall Attachment



Rim Joist-to-CMU Stem Wall Attachment

ALLOWABLE TENSION LOADS FOR PURLIN ANCHORS (LB)[1]

Part Name	Strap Length (in.)	Embedment Length, L_e (in.)		Fasteners		Allowable Tension Loads (lb)*	
						SP / DF-L (SG = 0.50)	
		Concrete	CMU	Qty	Nail Type	Concrete	CMU
PAS18-3Z	18-1/2	4	6	12	10d (0.148 x 3")	2,430	1,890
PAS23-3Z	23-3/4	4	6	16	10d (0.148 x 3")	3,220	2,815
PAS28-3Z	29	4	6	16	10d (0.148 x 3")	3,230	2,815
PAS35-3Z	35	4	6	16	10d (0.148 x 3")	3,230	2,815
PAS51-3Z	51	4	6	10	10d (0.148 x 3")	2,025	2,815
				26	10d (0.148 x 3")	5,410	5,410

NOTES:

1. Nails designated as 10d shall be 10d common nails (0.148" x 3", F_{yb} = 90,000 psi).

*Allowable loads per NDS nail calculations, call QT for code approval information.

EMBEDDED TRUSS ANCHOR STRAPS (METAS/HETAS)

PRODUCT FEATURES:

QuickTie™ Embedded Truss Anchor Straps (METAS/HETAS) are used for roof truss to concrete or CMU wall attachments.

MATERIAL:

METAS Series - 18 Gauge
HETAS Series - 16 Gauge

COATING:

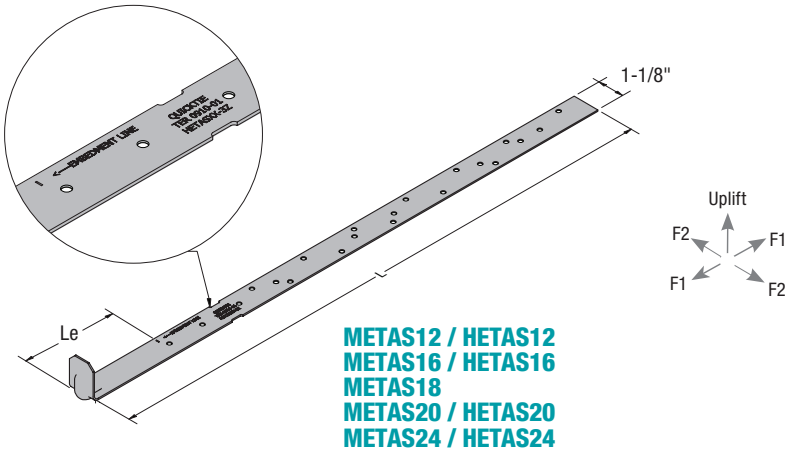
Galvanized (G185)

INSTALLATION:

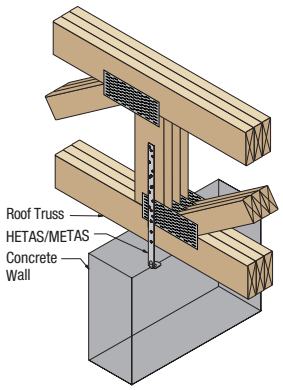
- Use all specified fasteners in schedule to achieve the values indicated.
- METAS/HETAS Series requires a minimum of 4" embedment into the concrete and CMU walls.

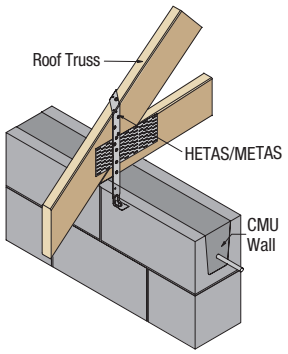
CODE COMPLIANCE:

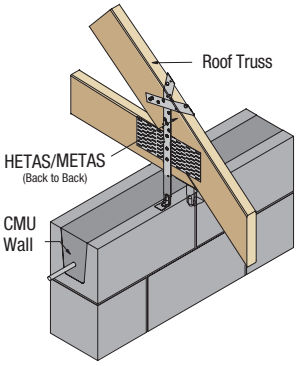
TER 0910-01; FL 3557

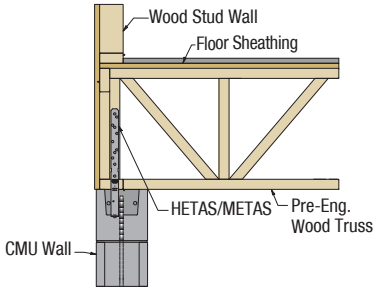


METAS12 / HETAS12
METAS16 / HETAS16
METAS18
METAS20 / HETAS20
METAS24 / HETAS24
METAS40 / HETAS40









ALLOWABLE LOADS FOR EMBEDDED TRUSS ANCHOR STRAPS (LB)[1,2,3,4,5]

Part No.	Length, L (in.)	Embed Length, L_e (in.)		Fasteners		Allowable Loads (LB) - Southern Pine (SG = 0.55, C_D = 1.6)											
						Single Anchor						Double Anchor					
						CMU			Concrete			CMU			Concrete		
		Concrete	CMU	Qty	Nail Type	Uplift	F1	F2	Uplift	F1	F2	Uplift	F1	F2	Uplift	F1	F2
METAS12-3Z	12	4	4	7	10dx1-1/2 (0.148 x 1.5")	1,445	340	760	1,445	340	760	2,890	1,335	1,140	2,890	1,335	1,140
METAS16-3Z	16	4	4	9	10dx1-1/2 (0.148 x 1.5")	1,600	440	760	1,600	440	760	3,195	1,375	1,140	3,195	1,375	1,140
METAS18-3Z	18																
METAS20-3Z	20																
METAS24-3Z	24																
METAS40-3Z	40																
HETAS12-3Z	12	4	4	7	10dx1-1/2 (0.148 x 1.5")	1,475	340	760	1,475	340	760	2,950	1,335	1,140	2,950	1,335	1,375
HETAS16-3Z	16	4	4	9	10dx1-1/2 (0.148 x 1.5")	1,895	440	760	1,895	440	760	3,325	1,375	1,140	3,175	1,405	1,375
HETAS20-3Z	20																
HETAS24-3Z	24																
HETAS40-3Z	40																

NOTES:

1. Allowable loads are provided for load duration factor (C_D) of 1.6. No further increase is permitted.
2. Minimum specified compressive strength of grout is 2,000 psi and minimum edge distance for CMU installation is 2 in.
3. Minimum specified compressive strength of concrete is 2,500 psi and minimum edge distance for concrete installation is 1.5".
4. Loading in F1 direction indicates shear forces parallel to the plane of the concrete/CMU wall.
5. Loading in F2 direction indicates shear forces perpendicular to the plane of the concrete/CMU wall.

EPOXY

PRODUCT FEATURES:

QuickTie™ QE-1 & QE-2 adhesives are an injectable two-component adhesive, tested to meet IBC requirements for both cracked and uncracked concrete applications. QE-1 & QE-2 adhesives are used for multiple anchoring systems, including QuickTie™ cables, fractional and metric threaded rod and rebar applications.

CODE COMPLIANCE:

ICC-ESR 4467 & 4865

Part No.	Description	Standard Box Package
QE-1*	Quick Set Anchoring Epoxy - 19.8 oz	6
QE-2-13.9*	Quick Set Anchoring Epoxy - 13.9 oz	9
QE-1TL**	High Performance Manual Tool (19.8 oz)	1
QE-2TL-13.9**	High Performance Manual Tool (13.9 oz)	1
1BSH / 2BSH	Epoxy Hole Cleanout Brush	1

* One mixing nozzle is packaged with each cartridge. QE-1 & QE-2 mixing nozzles must be used to ensure complete and proper mixing of the adhesive.

** For pneumatic or cordless, battery operated dispensing tools, contact QuickTie™ for ordering information.

ESR-4467
(QE-1 Adhesive Anchoring System)

ESR-4865
(QE-2 Adhesive Anchoring System)

QE-1 (19.8 OZ.)

QE-2 (13.9 OZ.)

1BSH / 2BSH

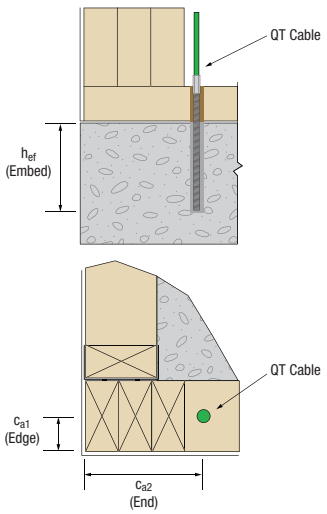
QE-1TL (19.8 OZ.)

QE-2TL (13.9 OZ.)

QE-1 / QE-2 NOZZLE

QE-1 & QE-2 ALLOWABLE TENSION VALUES FOR QUICKTIE™ SYSTEMS (QT)

Cable Type	Cable Diameter	Minimum Edge Distance, c_{a1}	Minimum End Distance, c_{a2}	Minimum Embedment Depth, h_{ef}	Allowable QT System Tension Loads[1,2,3]
	(in.)	(in.)	(in.)	(in.)	(lb)
QTB (Blue)	3/16	2-1/4	6	4	1,910
QTG (Green)	1/4	2-1/4	6	4	3,180
QTO (Orange)	5/16	3	6	6-5/8	4,455
QTR (Red)	3/8	3-1/2	6	7-5/8	6,545



NOTES:

1. Allowable QT System tension loads are based on test results with cables installed in uncracked concrete and no supplementary reinforcement.
2. Minimum 28-day concrete compressive strength is 2,500 psi.

QE-1 & QE-2 STRENGTH DESIGN AND ALLOWABLE STRESS DESIGN TENSION VALUES FOR THREADED RODS[1-8]

Rod Diameter, D (in.)	Slab Thickness, h_a (in.)	Embed Depth, h_{ef} (in.)	End Distance, c_{a2} (in.)	Critical Edge Distance, c_{ac} (in.)	Concrete	ALLOWABLE TENSION (LB) - 2,500 PSI CONCRETE												
						At Edge Distance, c_{a1}												
						1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"	3-1/4"	3-1/2"	3-3/4"	4"	5"	6"	C_{ac}
3/8	12	4	7	7-1/8	Cracked (SD)	1,640	1,720	1,805	1,895	1,980	2,070	2,160	2,255	2,350	2,450	2,855	3,185	3,185
					Uncracked (SD)	2,675	2,805	2,935	3,075	3,210	3,350	3,495	3,645	3,790	3,945	4,580	5,260	6,240
					Uncracked (ASD)	1,650	1,730	1,810	1,895	1,980	2,065	2,155	2,250	2,335	2,435	2,825	3,245	3,850
1/2	12	4	7	6-3/8	Cracked (SD)	-	-	2,125	2,210	2,295	2,380	2,470	2,555	2,645	2,740	3,120	3,520	3,665
					Uncracked (SD)	-	-	3,295	3,450	3,605	3,760	3,925	4,085	4,255	4,425	5,140	5,900	6,240
					Uncracked (ASD)	-	-	2,030	2,125	2,225	2,320	2,420	2,520	2,625	2,730	3,170	3,640	3,850
5/8	18	6-5/8	7	10-5/8	Cracked (SD)	-	-	-	3,895	4,010	4,130	4,250	4,370	4,495	4,620	5,130	5,670	8,305
					Uncracked (SD)	-	-	-	5,140	5,295	5,450	5,610	5,770	5,935	6,100	6,775	7,485	11,725
					Uncracked (ASD)	-	-	-	3,170	3,265	3,360	3,460	3,560	3,660	3,765	4,180	4,620	7,235
3/4	24	8-1/8	7	12-5/8	Cracked (SD)	-	-	-	-	-	4,855	4,975	5,095	5,215	5,340	5,845	6,370	10,250
					Uncracked (SD)	-	-	-	-	-	6,620	6,780	6,945	7,110	7,280	7,965	8,685	14,470
					Uncracked (ASD)	-	-	-	-	-	4,085	4,185	4,285	4,385	4,490	4,915	5,360	8,930

NOTES:

1. QE-1 & QE-2 have an installation temperature range of 5° F to 104° F for structural applications.
2. All Strength Design (SD) values listed are controlled by bond strength.
3. Table represents performance at specific edge distance, hole diameter and embedment depth conditions.
4. Table values reflect reduction for use in a Condition B application, where supplementary reinforcement is not present.
5. Allowable tension loads calculated based on strength design provisions of IBC Section 1605.2 with the following assumptions:
   a. Temperature range A: Maximum short term temperature = 176° F (80° C), Maximum long term temperature = 122° F (50° C)
   b. f'_c = 2,500 psi, normal-weight concrete.
   c. Single anchor, vertically down with periodic special inspection and no seismic loading.
   d. ϕ_d = 0.65 for dry concrete, with ASTM A193, Grade B7 threaded rod.
6. For short term temperature exposure greater than 176° F (80° C) and up to 248° F (120° C), apply a reduction factor of 0.90 to the allowable tension load.
7. For short term temperature exposure greater than 248° F (120° C) and up to 302° F (150° C), apply a reduction factor of 0.80 to the allowable tension load.
8. Allowable Stress Design (ASD) loads based on ACI load combination - 0.9D + W / 0.6D + 0.6W, assuming dead load of 30% and wind load of 70% giving a weighted average (α) of 1.62.

FIRE CAULK

PRODUCT FEATURES:

Ready-to-use, Metacaulk® MC 150+ Firestop Sealent is a general fire-rated elastomeric sealant for construction joints and through penetrations.

The sealant cures upon exposure to the atmosphere to form a firestop seal, which prevents spread of fire, smoke and noxious gas and when properly installed, it provides up to 4-hour fire protection.

MATERIAL:

Refer to manufacturer's literature.

INSTALLATION:

Refer to manufacturer's literature.

CODE COMPLIANCE:

Refer to manufacturer's literature.

Part No.	Qty.
FCBALCOFIRESTOP	5 gal. Pail

THREADED RODS (TR)

PRODUCT FEATURES:

Threaded Rods are used for Epoxy Anchor assembly and as extension rod to connect QuickTie™ Cables to top plate with couplers.

MATERIAL:

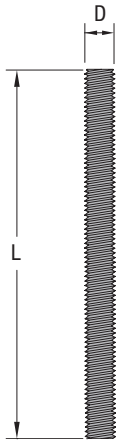
ASTM A36, F1554 (Grade 36, Class 2A) or A307 (Grade A) steel

COATING:

Plain (uncoated), Zinc Plated (Z) and HDG

Part No.	Rod Size (D)*	Length (L)*
TR.375x6	3/8"	6"
TR.375x8		8"
TR.375x10		10"
TR.375x12		12"
TR.375x24		24"
TR.5x6	1/2"	6"
TR.5x8		8"
TR.5x10		10"
TR.5x12		12"
TR.5x24		24"
TR.625x6	5/8"	6"
TR.625x8		8"
TR.625x10		10"
TR.625x12		12"
TR.625x24		24"
TR.75x6	3/4"	6"
TR.75x8		8"
TR.75x10		10"
TR.75x12		12"
TR.75x24		24"
TR.875x18	7/8"	18"
TR.875x24		24"
TR1x18	1"	18"
TR1x24		24"
TR1.125x24	1-1/8"	24"
TR1.25x24	1-1/4"	24"

*Other sizes, lengths, grades and coatings available upon request



TR

HEX NUTS (HN) AND WELD NUT (WN)

PRODUCT FEATURES:

Hex nuts (HN) are used in various QuickTie™ assemblies (e.g. QuickTie™ Cables, Epoxy Anchors, Anchor Bolt, etc.).

Weld nuts (WN) are used to connect QuickTie™ Masonry cables to precast lintels.

MATERIAL:

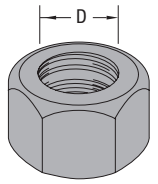
Carbon Steel, Grade 2 and Stainless Steel (SS)

COATING:

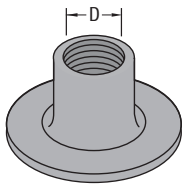
Zinc Plated (Z), and Hot-Dip Galvanized (HDG)

	Part No.	Bolt Size (D)*
HN	HN.37Z	3/8"
	HN.37HDG	
	HN.5Z	1/2"
	HN.5HDG	
	HN.5SS	
	HN.6Z	5/8"
	HN.6HDG	
	HN.6SS	
	HN.75Z	3/4"
	HN.75HDG	
	HN.75SS	
	HN.8Z	7/8"
	HN.8HDG	
	HN1Z	1"
	HN1HDG	
	HN1.12Z	1-1/8"
	HN1.25Z	1-1/4"
WN	WN.37Z	3/8"

*Other sizes and grades available upon request



HN



WN

COUPLERS (C) & REDUCER COUPLERS (CR)

PRODUCT FEATURES:

QuickTie™ Couplers (C) are used to connect QuickTie™ cables to foundation in anchor bolts and CMU saddle applications and to top plate in threaded rod application.

QuickTie™ Reducer Couplers (CR) are used when an application requires connection between different size components.

MATERIAL:

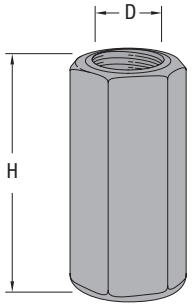
Carbon Steel, Grade 2

COATING:

Zinc Plated (Z)

	Part No.	Rod Size (D)*	Height (H)
C	C.37Z	3/8"	1-1/8"
	C.5Z	1/2"	1-1/4"
	C.6Z	5/8"	2-1/8"
	C.75Z	3/4"	2-1/4"
	C.8Z	7/8"	2-1/2"
	C1Z	1"	2-3/4"
	C1.125Z	1-1/8"	3"
	C1.25Z	1-1/4"	3"
	C1.37Z	1-3/8"	3"
CR	CR.375-.75Z	3/4" to 3/8"	1"
	CR.5-.37Z	1/2" to 3/8"	1-1/4"
	CR.6-.37Z	5/8" to 3/8"	1-1/4"
	CR.6-.5Z	5/8" to 1/2"	1-1/4"
	CR.75-.5Z	3/4" to 1/2"	1-1/2"
	CR.75-.62Z	3/4" to 5/8"	1-1/2"
	CR.875-.75Z	7/8" to 3/4"	2-3/4"
	CR1-1.25Z	1" to 1-1/4"	3"
	CR1.125-.875Z	1-1/8" to 7/8"	3"

*Other sizes, heights, grades and coatings available upon request



C & CR

BEARING PLATES / WASHERS (BPW)

PRODUCT FEATURES:

QuickTie™ Bearing Plates/Washers are used for QuickTie™ Cables, Epoxy Anchors, Anchor Bolts, etc. Bearing Plates/ Washers are available in various sizes and shapes (square, rectangle & round) with round and slotted holes.

MATERIAL:

ASTM A36 Steel & A653 Grade 33 Steel

NOMENCLATURE

BPW W x L - T ϕ H F & BPR ϕ F

BPW = Bearing Plates/Washers

R = Round Washer

W = Width in Decimal Inches

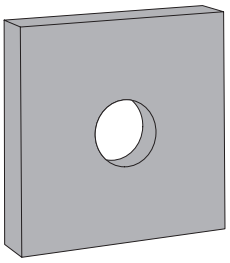
L = Length in Decimal Inches (for rectangular bearing plates only)

T = Thickness in 1/16 inches

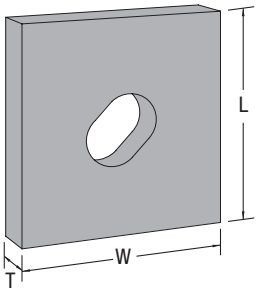
ϕ = Bolt Diameter in 1/8 inches

H = Hole Shape [None = Round, SQ = Square, SL = Slotted & TR = Triangle]

F = Finish [N = No Coating, Z = Zinc Plated, H = HDG, G = Galvanized (G90 or G185), S = Stainless Steel and Px = Painted black (Pb), Painted gray (Pg), Painted white (Pw) & Painted gray primer (Pgp)]

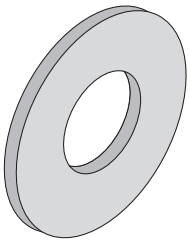


BPW



Hole Size = Bolt Diameter + 1/16"

Slot Length = 1"
Slot Width = Bolt Diameter + 1/16"



BPR

BEARING PLATES / WASHERS (SQUARE OR RECTANGLE)

PART NO.	Simpson®	WIDTH, W (IN.)	LENGTH, L (IN.)	THICK., T (IN.)	BOLT SIZE, ϕ (IN.)	HOLE SHAPE, H	FINISH, F
BPW1.37-24G	(Ref # BP1.4)	1-3/8	1-3/8	1/8	1/2	Round	Galvanized
BPW1.37-25G	(Ref # BP1.5)	1-3/8	1-3/8	1/8	5/8	Round	Galvanized
BPW2-24G	(Ref # BP2.4)	2	2	1/8	1/2	Round	Galvanized
BPW2-25G	(Ref # BP2.5)	2	2	1/8	5/8	Round	Galvanized
BPW2-26G	(Ref # BP2.6)	2	2	1/8	3/4	Round	Galvanized
BPW2x2.25-36G	(Ref # BP22.6)	2	2-1/4	3/16	3/4	Round	Galvanized
BPW2.25-33G	(Ref # BP22.3)	2-1/4	2-1/4	3/16	3/8	Round	Galvanized
BPW2.75-43Z	(Ref # BP27.3)	2-3/4	2-3/4	1/4	3/8	Round	Zinc Plated
BPW2.75-65Z	(Ref # BP27.38)	2-3/4	2-3/4	3/8	5/8	Round	Zinc Plated
BPW3-44SLZ	(Ref # BP3.4)	3	3	1/4	1/2	Slotted	Zinc Plated
BPW3-44SLN	(Ref # ---)	3	3	1/4	1/2	Slotted	None
BPW3-44Z	(Ref #BP3.4A / BP3.4R)	3	3	1/4	1/2	Round	Zinc Plated
BPW3-44N	(Ref # ---)	3	3	1/4	1/2	Round	None
BPW3-45SLZ	(Ref # BP3.5)	3	3	1/4	5/8	Slotted	Zinc Plated
BPW3-45SLN	(Ref # ---)	3	3	1/4	5/8	Slotted	None
BPW3-45Z	(Ref # BP3.5R / BP3.5H)	3	3	1/4	5/8	Round	Zinc Plated
BPW3-46Z	(Ref # ---)	3	3	1/4	3/4	Round	Zinc Plated
BPW3-47Z	(Ref # ---)	3	3	1/4	7/8	Round	Zinc Plated
BPW3-48Z	(Ref # ---)	3	3	1/4	1	Round	Zinc Plated
BPW3-49Z	(Ref # ---)	3	3	1/4	1-1/8	Round	Zinc Plated
BPW3x4.5-44Z	(Ref # ---)	3	4-1/2	1/4	1/2	Round	Zinc Plated
BPW3x4.5-45Z	(Ref # ---)	3	4-1/2	1/4	5/8	Round	Zinc Plated
BPW3x4.5-46Z	(Ref # BP34.6.25)	3	4-1/2	1/4	3/4	Round	Zinc Plated
BPW3-86N	(Ref # BP3.7)	3	3	1/2	3/4	Round	None
BPW3x4.5-86Z	(Ref # BP34.6)	3	4 -1/2	1/2	3/4	Round	Zinc Plated
BPW3x4.5-88Z	(Ref # ---)	3	4-1/2	1/2	1	Round	Zinc Plated
BPW3x4.5-810Z	(Ref # ---)	3	4-1/2	1/2	1-1/4	Round	Zinc Plated
BPW3.5-64Z	(Ref # BP35.4)	3-1/2	3-1/2	3/8	1/2	Round	Zinc Plated
BPW3.5-68N	(Ref # BP35.5)	3-1/2	3-1/2	3/8	1	Round	None
BPW3.5-86Pg	(Ref # ---)	3-1/2	3-1/2	1/2	13/16	Round	Painted Gray
BPW3.5-87Pg	(Ref # ---)	3-1/2	3-1/2	1/2	15/16	Round	Painted Gray
BPW3.5x5-810N	(Ref # ---)	3-1/2	5	1/2	1-1/4	Round	None
BPW3.5x5.5-810N	(Ref # BP3.5x5.5)	3-1/2	5-1/2	1/2	1-1/4	Round	None
BPW4-65Z	(Ref # BP4.6)	4	4	3/8	5/8	Round	Zinc Plated
BPW4-66Z	(Ref # ---)	4	4	3/8	3/4	Round	Zinc Plated
BPW4-67Z	(Ref # ---)	4	4	3/8	7/8	Round	Zinc Plated
BPW4x6-106Z	(Ref # BP46.7)	4	6	5/8	3/4	Round	Zinc Plated
BPW4.5-65Z	(Ref # ---)	4.5	4.5	3/8	5/8	Round	Zinc Plated
BPW5.5x7.5-109Z	(Ref # ---)	5-1/2	7-1/2	5/8	1-1/8	Round	Zinc Plated
BPW5.5x7.5-1210Z	(Ref # ---)	5-1/2	7-1/2	3/4	1-1/4	Round	Zinc Plated
BPW5.5x7.5-1210N	(Ref # ---)	5-1/2	7-1/2	3/4	1-1/4	Round	None
BPW6-1010N	(Ref # BP6x6)	6	6	5/8	1-1/4	Round	None
BPW6x7.5-1210N	(Ref # BP6x7.5)	6	7-1/2	3/4	1-1/4	Round	None
BPW6x9-1610N	(Ref # BP6x9)	6	9	1	1-1/4	Round	None

BEARING PLATES / WASHERS (ROUND)

PART NO.	Simpson®	BOLT SIZE, ϕ (IN.)	FINISH, F
BPR2H	(Ref # BPR.25HDG)	1/4	HDG
BPR2S	(Ref # BPR.25SS)	1/4	Stainless Steel
BPR2Z	(Ref # BPR.25Z)	1/4	Zinc Plated
BPR3H	(Ref # BPR.37HDG)	3/8	HDG
BPR3S	(Ref # BPR.37SS)	3/8	Stainless Steel
BPR3Z	(Ref # BPR.37Z)	3/8	Zinc Plated
BPR4H	(Ref # BPR.5HDG)	1/2	HDG
BPR4S	(Ref # BPR.5SS)	1/2	Stainless Steel
BPR4Z	(Ref # BPR.5Z)	1/2	Zinc Plated
BPR5H	(Ref # BPR.6HDG)	5/8	HDG
BPR5S	(Ref # BPR.6SS)	5/8	Stainless Steel
BPR5Z	(Ref # BPR.6Z)	5/8	Zinc Plated
BPR6H	(Ref # BPR.75HDG)	3/4	HDG
BPR6S	(Ref # BPR.75SS)	3/4	Stainless Steel
BPR6Z	(Ref # BPR.75Z)	3/4	Zinc Plated
BPR7H	(Ref # BPR.8HDG)	7/8	HDG
BPR7S	(Ref # BPR.8SS)	7/8	Stainless Steel
BPR7Z	(Ref # BPR.8Z)	7/8	Zinc Plated
BPR8H	(Ref # BPR1HDG)	1	HDG
BPR8Z	(Ref # BPR1Z)	1	Zinc Plated
BPR9Z	(Ref # BPR1.12Z)	1-1/8	Zinc Plated
BPR10Z	(Ref # BPR1.25Z)	1-1/4	Zinc Plated
BPR11Z	(Ref # BPR1.37Z)	1-3/8	Zinc Plated

About QuickTie™ Cables (QT)

OVERVIEW

All single and multi-story structures must resist lateral forces induced by wind or seismic events and transfer them from the roof and floor levels to the supporting soil below the foundation. To protect the structural integrity and safety of the occupants, a continuous load path must be present. A structural system with a series of interconnected structural elements (roofs, floors, beams, columns, load bearing walls, connections, footings, etc.) form the basis for a good load path. Lateral forces are often carried by components such as shear walls, roof/floor diaphragms, frames or a combination thereof, to transfer forces from the point of origin to the foundation.

A shear wall is commonly used in buildings made of wood frame, reinforced masonry, reinforced concrete, etc., to resist lateral forces parallel to the plane of the wall (i.e. in-plane forces). Shear walls are designed to resist uplift (wind) and overturning (wind and/or seismic) forces. The traditional wood-frame shear wall system includes various types of straps and hold-downs. Because of issues related to wood shrinkage and building settlement and growing trends towards designing and building multi-story structures, alternative shear wall system with threaded rod, threaded rod plus shrinkage compensation device, prestressed cable, etc. are developed and being widely used in the wood frame industry.

QUICKTIE™ CABLES

QuickTie™ cables are used to resist uplift loads from the roof system, shear at the bottom plate and overturning forces at the ends of shear walls. When QuickTie™ cables are used, it is possible to omit all straps and construction hardware between the double top plates on the uppermost floor to the sole or sill plate on the lowest floor. Hurricane clips attaching the double top plate to the trusses must remain, however. A single QuickTie™ installed between the double top plate of the uppermost floor and the foundation serves adequately as a hold down for any shear wall. It replaces one hold down on the lowest floor and straps between floors at the second floor and third floor.

QuickTie™ cables are designed to securely anchor the top plate of the uppermost floor to the foundation. QuickTie™ cables are made of 7x19 type galvanized aircraft wire rope with factory installed threaded studs swaged at each end. QuickTie™ cables are attached to the foundation with mechanical or chemical anchor attachments and to the top plate using steel plates or special washers and threaded hex nuts. The bottom end of the QuickTie™ is anchored to the foundation by drilling a hole through the treated lumber sole plate into the concrete slab/foundation and inserting the threaded stud into the hole after it has been cleaned and filled with a special QuickTie™ Epoxy adhesive. The correct embedment of the threaded stud is easily verified by measuring the length of the threaded stud protruding above the top of the treated lumber sole plate. Also protruding above the top of the sole plate is the excess epoxy from the hole into the concrete. The protruding epoxy indicates that the threaded stud is completely encased from the bottom of the hole in the concrete to the top of the treated lumber sole plate. This is extremely important because the threaded stud is now isolated against the corrosive effects of the treated lumber on unprotected steel. Refer to Page 28 and Page 39 for the details of various QuickTie™ cables used for wood and masonry applications, respectively.

- *QuickTie™ cables are flexible and elastic*
- *Each QuickTie™ is manufactured to the exact length required for its intended location in the field*
- *QuickTie™ cables are installed only by factory trained and licensed installers*
- *By pre-stressing to a design load for 115 - 215 mph winds, QuickTie™ cables are designed to allow zero movement until the forces applied, (wind or seismic) reach the pre-stress load. That's why QuickTie™ cables keep your home "Stronger in the Storm.™" They simply cinch the top plate to the building's foundation!*
- *QuickTie™ cables are easy to inspect. At installation, the pre-stress load exceeds the design load–therefore, "proof-testing" each QuickTie™ when installed, and not during a storm!*

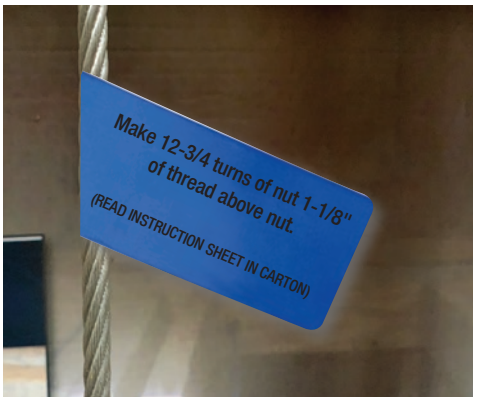
PRE-STRESSING QUICKTIE™ CABLES

Shrinkage and movement are a common problem in wood framed buildings; a problem which the old method of straps and threaded anchors simply do not address. When the building is exposed to dead loads as it is being built, deflections develop in these products, creating a "loose" load path to the foundation. Loose structural connectors allow movement which causes the building to be "pulled apart" until these parts become tight, during high winds. This movement is also one of the major contributors to drywall and stucco cracks and bowing trim. Because the wire stretches, it can be "pre-stressed" to produce zero movement and compensate for building settling and long-term wood shrinkage.

When using elastic QuickTie™ cables as hold downs, the wood columns of the shear walls are pre-stressed. The columns are compressed between the foundation and the uppermost wood top plate. The wall components are subjected to a greater compressive load than walls constructed with conventional hardware. Even when the wall "shrinks" or reduced in height due to weather or loading conditions, the force on the top plate from the QuickTie™ cables is only reduced slightly. When the QuickTie™ cables are installed, by applying an extra compression force compensates the anticipated shortening or shrinkage. When the anticipated shortening is reached, the QuickTie™ force has been reduced to the design force.

The real advantage of the QuickTie™ system is that there can be no vertical displacement or deflection of the top plate until the magnitude of the pre-compression force is exceeded. Stated another way, no vertical movement will occur in the top plate until the design wind velocity has been exceeded. And finally, because the tension applied to the QuickTie™ at the time of construction equals the design load, the QuickTie™ installation has been proof tested to the design load. No other system on the market does that.

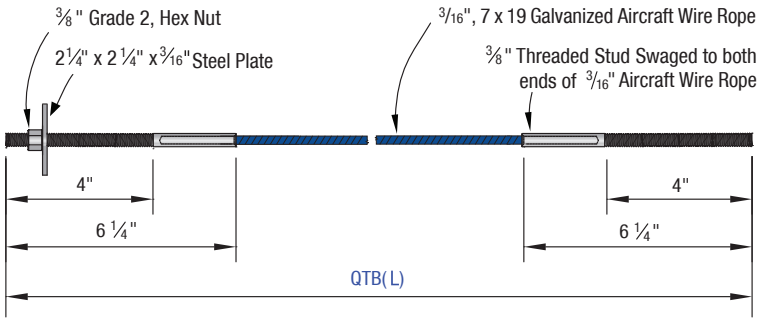
At times, overturning loads can be very high. Studs at shear wall ends shall be sized to resist the additional compression load from the pre-stressed QuickTie™ cables. The Table on Page 33 indicates the minimum number of studs required when using a specific QuickTie™ as a hold down. The stud configurations below the table show possible stud configurations (refer to the notes and illustrations for additional information). Spacing of the QuickTie™ cables varies and is dependent on the uplift expected from the roof trusses, rafters or joists. Refer to Table on Page 30 for spacing of QuickTie™ cables to resist wind uplift.



Wood Frame QuickTie™ Cables

U.S. PATENT NO. 6,014,843; Other Patents Pending

QuickTie™ HIGH WIND AND SEISMIC SYSTEMS



QTB Blue

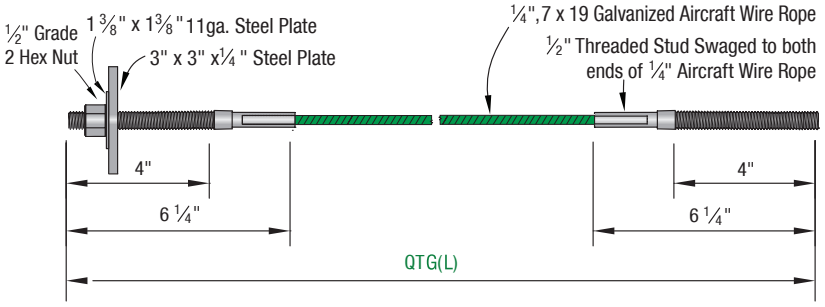
ALLOWABLE LOAD: 1,910 LB

Wire Rope:
- Breaking Strength : 4,200 lb

Hole Diameter:
- Top Plate : 1"
- Sill Plate : 5/8"
- Concrete : 7/16"

Concrete:
- Min. Comp. Strength : 2,500 psi
- Min. Embedment : 4"
- Min. Edge Distance : 2-1/4"

TER 0910-01; FL #13468.1



QTG Green

ALLOWABLE LOAD: 3,180 LB

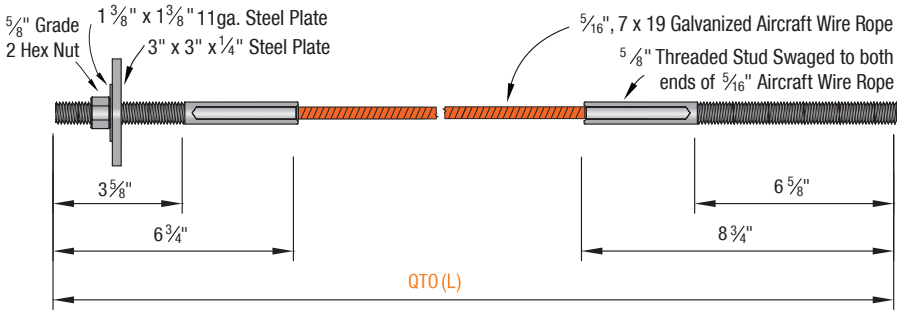
Wire Rope:
- Breaking Strength : 7,000 lb

Hole Diameter:
- Top Plate : 1"
- Sill Plate : 5/8"

Concrete : 9/16"

Concrete:
- Min. Comp. Strength : 2,500 psi
- Min. Embedment : 4"
- Min. Edge Distance : 2-1/4"

TER 0910-01; FL #13468.2



QTO Orange

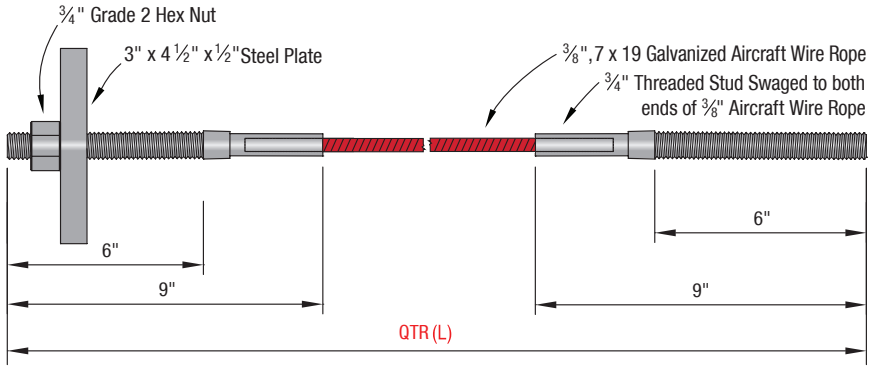
ALLOWABLE LOAD: 4,455 LB

Wire Rope:
- Breaking Strength : 9,800 lb

Hole Diameter:
- Top Plate : 1"
- Sill Plate : 3/4"
- Concrete : 3/4"

Concrete:
- Min. Comp. Strength : 2,500 psi
- Min. Embedment : 6-5/8"
- Min. Edge Distance : 3"

TER 0910-01; FL #13468.3



QTR Red

ALLOWABLE LOAD: 6,545 LB

Wire Rope:
- Breaking Strength : 14,400 lb

Hole Diameter:
- Top Plate : 1"
- Sill Plate : 7/8"
- Concrete : 7/8"

Concrete:
- Min. Comp. Strength : 2,500 psi
- Min. Embedment : 8-1/8"
- Min. Edge Distance : 3-1/2"

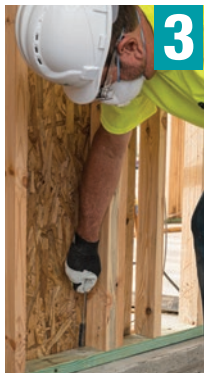
TER 0910-01; FL #13468.4

NOTES:

1. QuickTie™ cables are manufactured in one inch (1") increments from 2' to 62' (Longer lengths available).
2. QuickTie™ cables part numbers, QTX(L), correspond to the length (L) measured from the top of embed surface to the uppermost top plate. (Example: For L = 17'-1", QuickTie part numbers are QTB17.1 for 3/16"; QTG17.1 for ¼"; QTO17.1 for 5/16" and, QTR17.1 for 3/8").
3. To anchor the QuickTie™ System to the foundation, QE-1/QE-2 Epoxy Adhesive is used (Refer to Page 23 for product information).
4. Steel failure in testing was used to derive the allowable loads.

Drill bottom hole through plate and into concrete

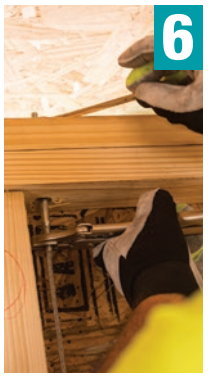
Drill top hole through the plate



Blow out hole with compressed air; brush; blow again

Inject epoxy

Insert proper end of QuickTie™ in epoxy and allow to cure

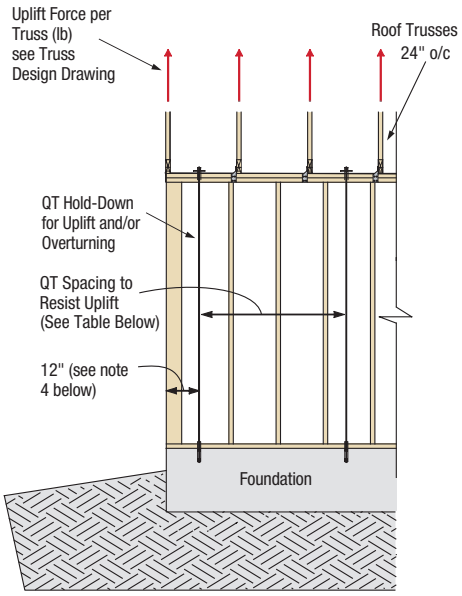


Tighten QuickTie™ at top plate

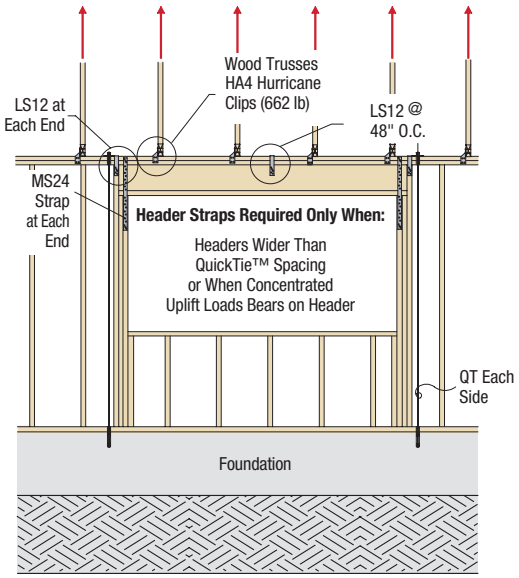
Check the tension on the installed cables

Uplift Spacing Table

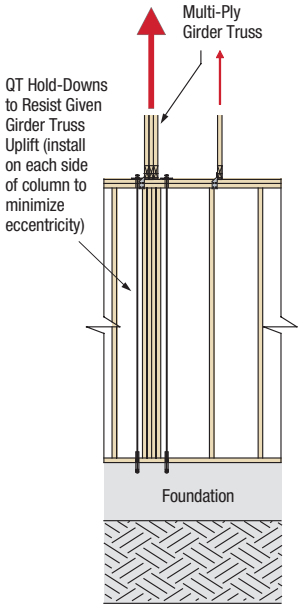
QuickTie™ Placement



Header Tie-Down Requirements



Girder Tie-Downs



NOTES:

1. Sheathing for shear walls removed for clarity.
2. All QuickTie™ cables shall be installed according to these specifications unless designed and certified by a registered design professional.
3. Install QuickTie™ cables at each end of all shear wall segments. More than one QuickTie™ may be required to resist combined forces due to uplift and overturning.
4. Refer to Table for maximum spacing requirements for QuickTie™ cables used to resist uplifts only. Install one QuickTie™ within 12" of each load bearing corner (one side of corner, preferably the side where the top plates lap over the other wall.)
5. Allowable loads provided in this figure are for QuickTie™ System only. Building designer must verify that the wall structural framing elements are capable of transferring the loads to the QTS.
6. See header connection schedule for connections required for headers 8'-0" and greater.
7. Use only QuickTie™ System materials as supplied by Quick Tie Products, Inc.

QUICKTIE™ SPACING AND QT CONNECTORS FOR RESISTING UPLIFT FORCES

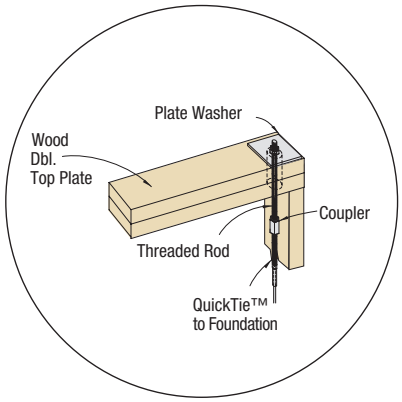
QT Spacing ft-in. (in.)	TRUSSES/RAFTERS @ 16" O.C.				TRUSSES/RAFTERS @ 24" O.C.			
	Allowable Truss Uplift Load with QTB (lb)	No. & Type of Truss-to-Top Plate QT Connectors	Allowable Truss Uplift Load with QTG (lb)	No. & Type of Truss-to-Top Plate QT Connectors	Allowable Truss Uplift Load with QTB (lb)	No. & Type of Truss-to-Top Plate QT Connectors	Allowable Truss Uplift Load with QTG (lb)	No. & Type of Truss-to-Top Plate QT Connectors
1'-4" (16")	1,910	(2) HTS16	3,180	(2) HTS16	1,910	(2) HTS16	3,180	(2) HTS16
2'-0" (24")	1,275	(2) HA6	2,120	(2) HTS16	1,910	(2) HTS16	3,180	(2) HTS16
2'-8" (32")	955	(2) HA6	1,590	(1) HTS16	1,435	(1) HTS16	2,385	(2) HTS16
4'-0" (48")	635	(1) HA6	1,060	(2) HA6	955	(2) HA6	1,590	(1) HTS16
5'-4" (64")	480	(1) HA6	795	(2) HA6	715	(2) HA6	1,195	(2) HA6
6'-0" (72")	425	(1) HA6	705	(2) HA6	635	(1) HA6	1,060	(2) HA6
6'-8" (80")	380	(1) HA6	635	(1) HA6	575	(1) HA6	955	(2) HA6
8'-0" (96")	320	(1) HA6	530	(1) HA6	400	(1) HA6	795	(2) HA6

NOTES:

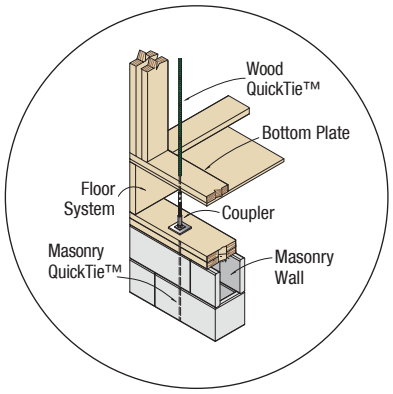
1. Use only QuickTie™ System materials as specified and supplied by Quick Tie Products, Inc.
2. The allowable load for QTB is 1,910 lb and QTG is 3,180 lb.
3. Minimum requirements for QT: Edge distance = 2-1/4 in., End distance = 6 in., Embedment = 4 in. and Concrete compressive strength = 2,500 psi.
4. Loads require a minimum 1/2" thick gypsum wall board on each side of the studs with 1-1/2" long wallboard nails spaced at 6" o.c. at edges and 12" o.c. in the field.
5. If QT's spaced at 4 ft or greater and no structural sheathing is provided, (1) LS18 strap shall be installed at mid-spacing to prevent top plate bending.
6. The allowable uplift load (C_D = 1.6) per connector with Southern Pine (SG = 0.55) lumber and 10d x 1-1/2" nails:
   a. HA6 = 650 lb and HTS16 = 1,665 lb.

Typical Wood Installation

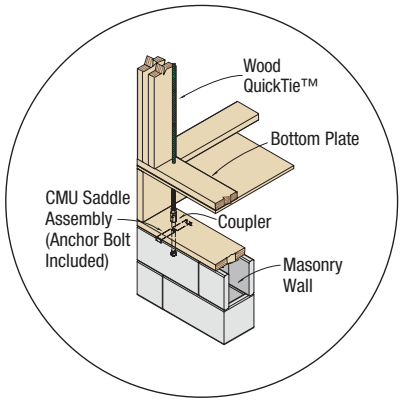
QuickTie™ to Threaded Rod Extension at Top Plate



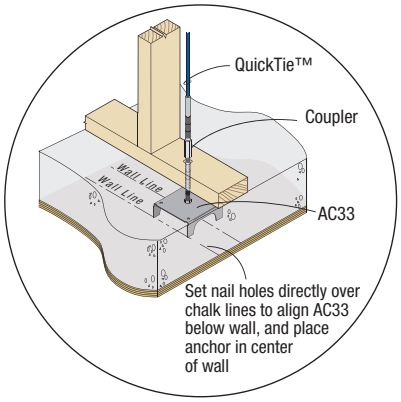
QuickTie™ to Masonry and Wood Wall

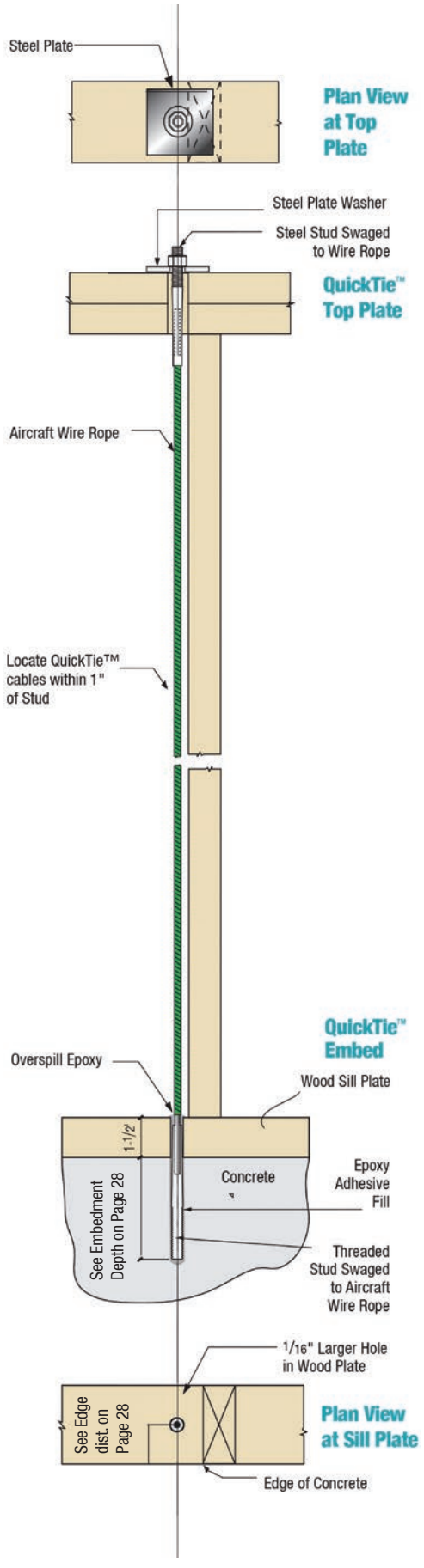


QuickTie™ to CMU Saddle Assembly on Top of CMU



Anchor Chair



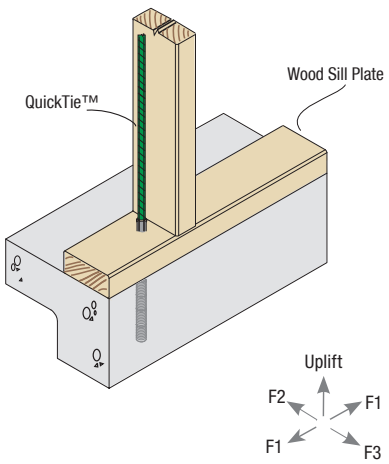


ALLOWABLE LOADS FOR QUICKTIE™ CABLES UNDER COMBINED TENSION AND SHEAR

Item No	Tension (lb)	Shear (lb)		
	T	F1	F2	F3
QTB	1,910	1,130	1,450	510
QTG	3,180	1,395	1,785	620

NOTES:

1. Allowable loads are based on the test results with SP #2 lumber.
2. T = Cable Tension
   F1 = Parallel to Sill Plate (in-plane shear)
   F2 = Perpendicular to Sill Plate (force acting from outside of wall)
   F3 = Perpendicular to Sill Plate (force acting from inside of wall)
3. Minimum concrete compression strength, F_c' = 2,500 psi
4. Minimum edge distance = 2-1/4", Min. end distance = 6-1/2" & Min. embedment = 4"
5. Frictional resistance due to self-weight of building components are not included.
6. Overspill epoxy per installation instructions.



QUICKTIE™ BEAM CONNECTOR (BPBC)

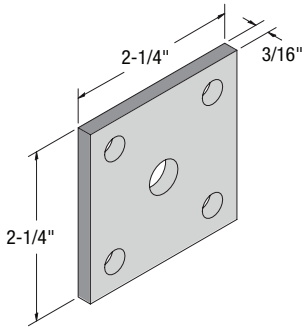
PRODUCT FEATURES:

QuickTie™ Beam Connectors (BPBC) are used to attach the QuickTie™ Cables directly to the beam under the bottom plate. The part includes washer and wood screws.

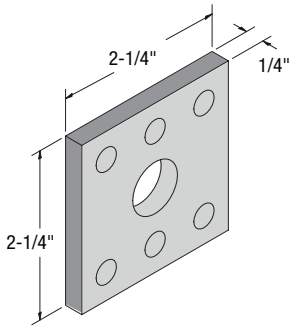
INSTALLATION:

- Use all specified fasteners to achieve the required cable load values.
- A minimum thread penetration of 3" into the beam is required.

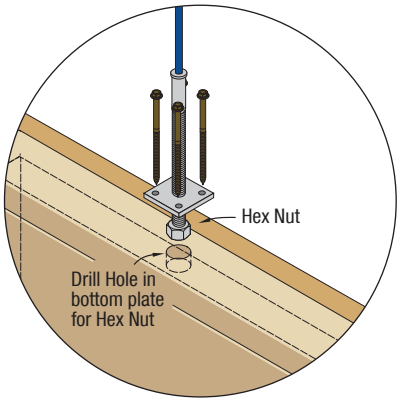
Part No.	Description
BPBC2.25-33N (QTB)	2-1/4" x 2-1/4" x 3/16" Washer & 3/8" Hex Nut
BPBC2.25-33NS (QTB)	2-1/4" x 2-1/4" x 3/16" Washer, 3/8" Hex Nut & (4) SWH5 Wood Screws
BPBC2.25-44N (QTG)	2-1/4" x 2-1/4" x 1/4" Washer & 1/2" Hex Nut
BPBC2.25-44NS (QTG)	2-1/4" x 2-1/4" x 1/4" Washer, 1/2" Hex Nut & (6) SWH5 Wood Screws
BPBC2.25-45N (QTO)	2-1/4" x 2-1/4" x 1/4" Washer & 5/8" Hex Nut
BPBC2.25-45NS (QTO)	2-1/4" x 2-1/4" x 1/4" Washer, 5/8" Hex Nut & (6) SWH5 Wood Screws

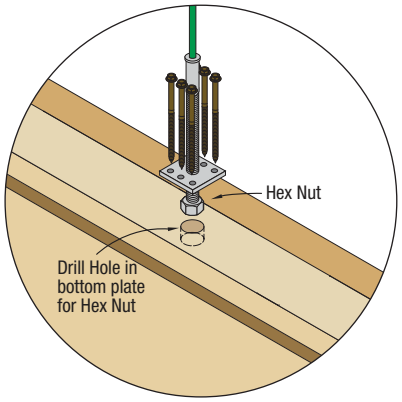


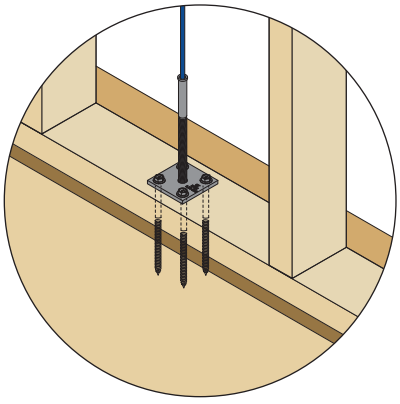
BPBC2.25-33N (QTB)
BPBC2.25-33NS (QTB)



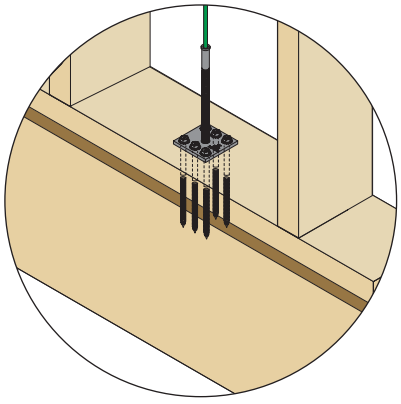
BPBC2.25-44N (QTG)
BPBC2.25-44NS (QTG)
BPBC2.25-45N (QTO)
BPBC2.25-45NS (QTO)



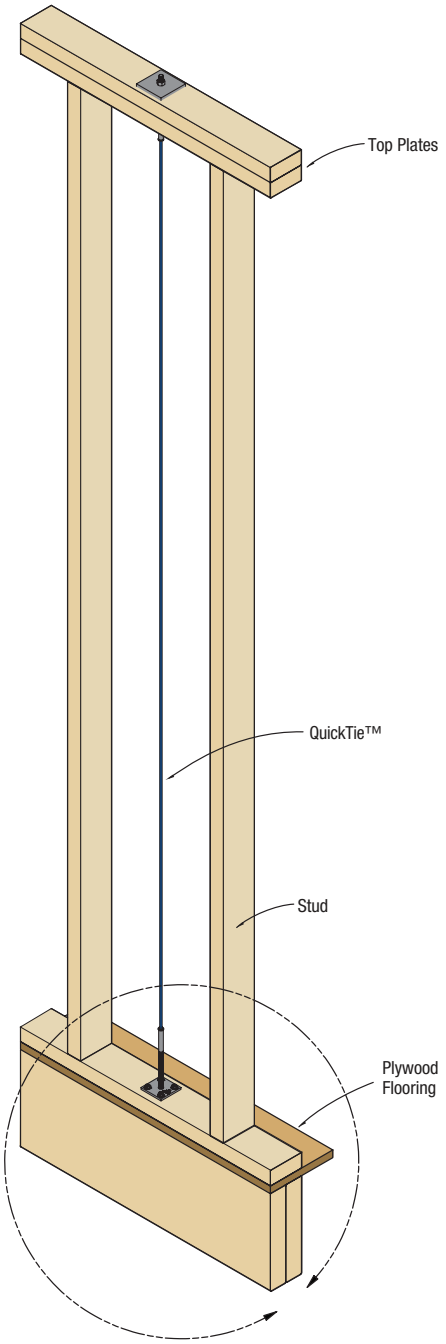




QTB



QTG & QTO



NOTE: A minimum thread penetration of 3" into the beam is required.

COMPRESSION STUD REQUIREMENTS

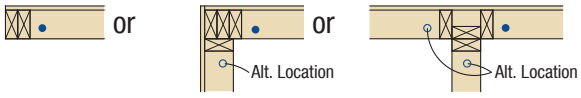
Number of Studs Required at Shear Wall Ends to Receive QuickTie™ Compression Loads							
QuickTie™	QT Allowable Load (lb)	SP			SPF		
		2x4	3x4	2x6	2x4	3x4	2x6
1-QTB	1,910	1	1	1	1	1	1
1-QTG	3,180	2	1	1	2	1	1
1-QTO	4,455	3	2	2	4	3	2
1-QTR	6,545	3	2	2	5	3	2
2-QTO	8,910	6	4	2	8	3	2
2-QTR	13,090	8	5	4	10	6	4

NOTES:

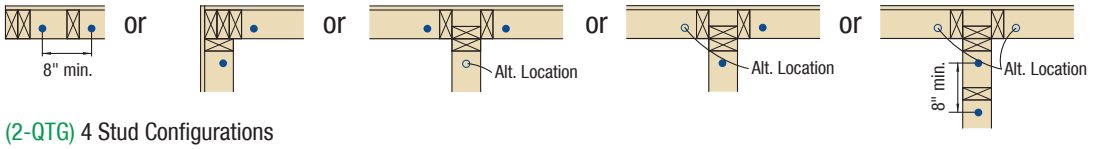
1. The design values of SP, No. 2 (F_b=1,100 psi, F_c=1,450 ksi, E=1,400 ksi) and SPF, No. 2 (F_b=875 psi, F_c=1,150 psi, E=1,400 ksi) are based on the latest edition of NDS®.
2. The tabulated values are based on a nominal 10 foot plate height, except 9'6" plate height for 1-QTB installed with 2x4.
3. The table indicates the minimum number of studs required when using specific QuickTie™ cable(s) as a hold-down for shear walls, not for uplift. The number of studs shown in the table may be reduced when corners, tees, jack studs, and king studs are located next to the QuickTie™ hold-down(s).

COMPRESSION STUD CONFIGURATION

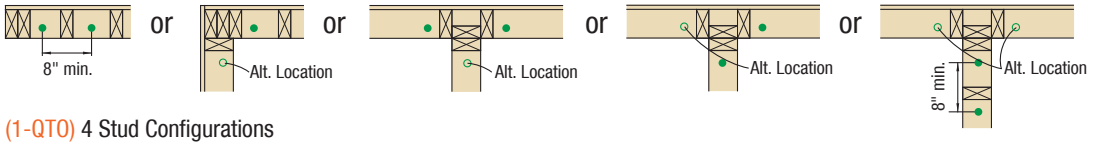
(1-QTB or 1-QTG) 2 Stud Configurations



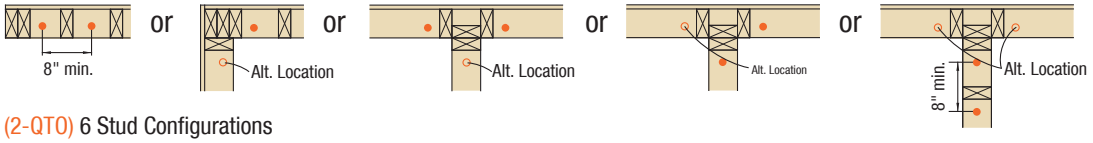
(2-QTB) 3 Stud Configurations



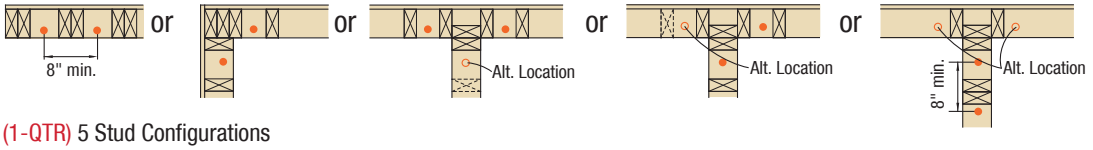
(2-QTG) 4 Stud Configurations



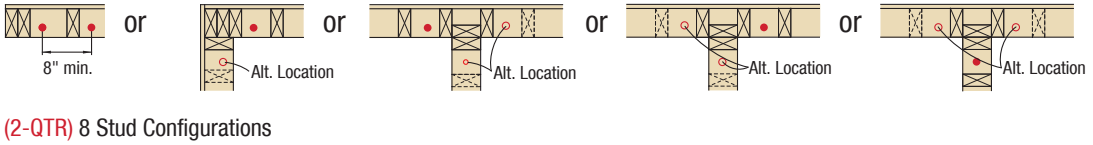
(1-QTO) 4 Stud Configurations



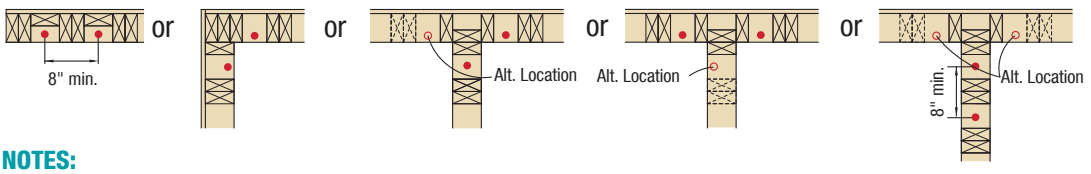
(2-QTO) 6 Stud Configurations



(1-QTR) 5 Stud Configurations



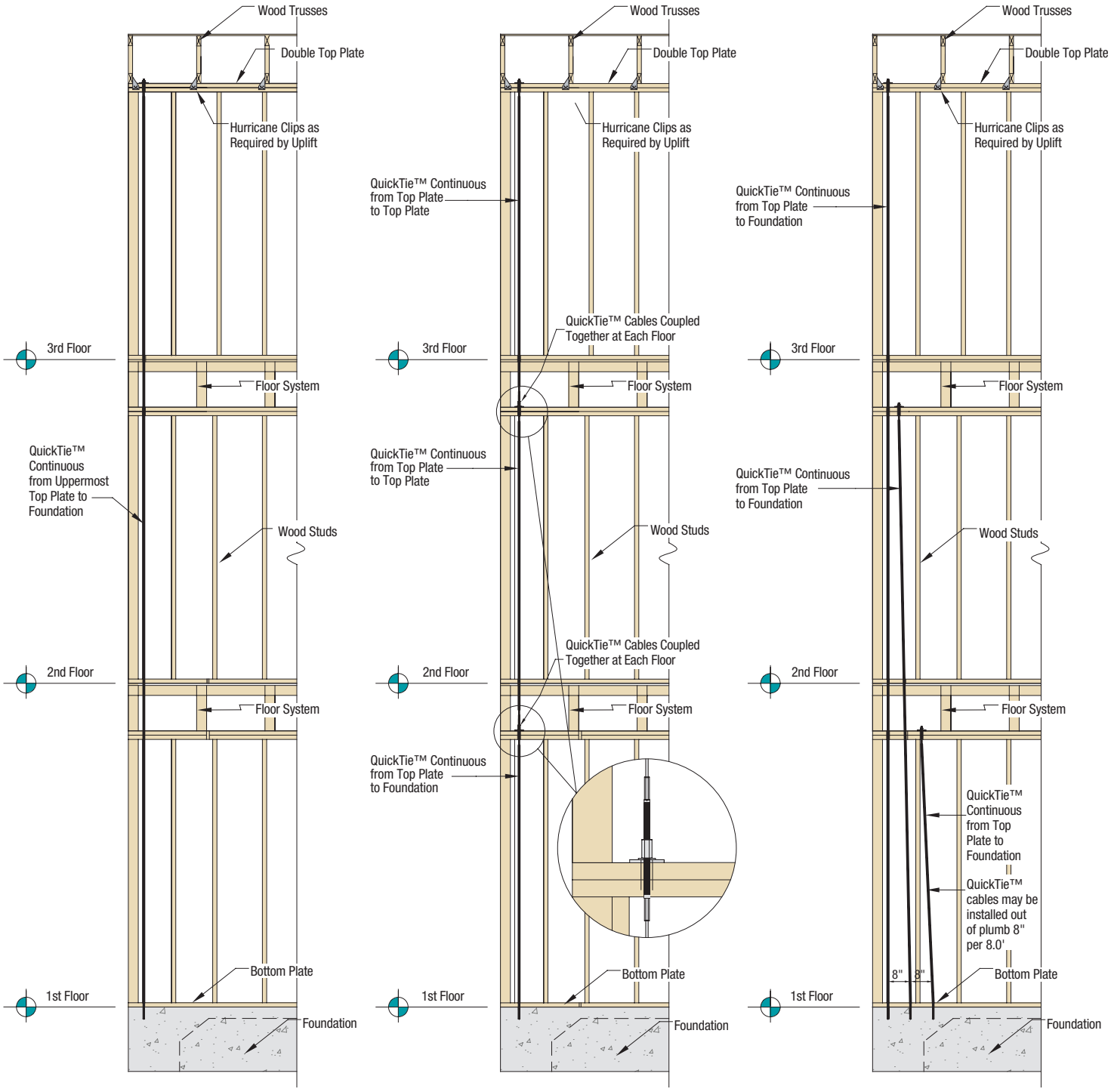
(2-QTR) 8 Stud Configurations



NOTES:

1. The stud configuration illustrations shown are only possible configurations to meet the compression loads. These illustrations do not indicate that additional studs must be added. Corners, tees, jacks, and king studs can be used as required compression studs when located next to QuickTie™ cables.
2. The design professional should check for the correct number of compression studs in combination with other loads developed by the structural designer.
3. QuickTie™ cable(s) are hold-downs only. Shear walls shall be designed by the design professional using proper framing, sheathing, and fasteners to resist wind or seismic loads.
4. Epoxy anchors should be placed between QuickTie™ hold-downs to satisfy horizontal loads at the bottom plate.
5. To resist loads higher than shown here, additional QuickTie™ cable(s) and studs can be added.
6. When used as a hold-down, additional QuickTie™ cable(s) are not needed at the same location to meet roof uplift loads as shown on page 30.
7. Where wood walls are installed over reinforced masonry walls, the elastic QuickTie™ cable(s) may be anchored into formed concrete tie beams.
8. When grouted masonry tie beams comprise the top course of reinforced masonry walls, the elastic QuickTie™ cable(s) shall be coupled to anchor bolts that have been hooked and wired under a continuous reinforcing bar, located at least 5 inches below the top of the tie beam. Concrete is then cast into the tie beam. Mechanical or chemical anchors may be used as long as they are installed into a minimum 2,500 psi concrete mix fill, and meet the edge and embedment requirements.

QUICKTIE™ SHEAR WALL HOLD-DOWN APPLICATIONS

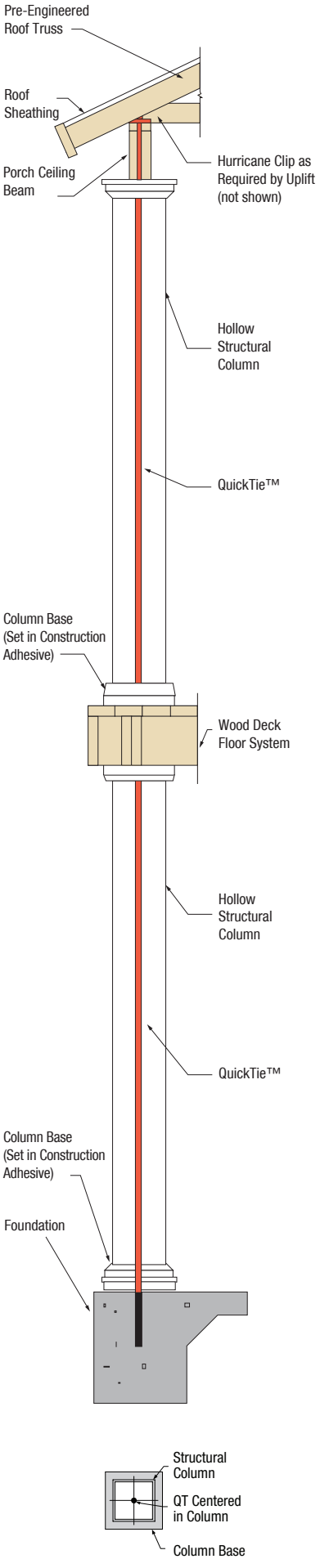


OPTION 1 (Typical)
[Single QuickTie™ Connected from Roof Level to Foundation]

OPTION 2
[Multiple QuickTie™ Cables Connected Intermediately at Each Floor Level]

OPTION 3
[Multiple QuickTie™ Cables Connected from Each Floor Level [Offset] to Foundation]

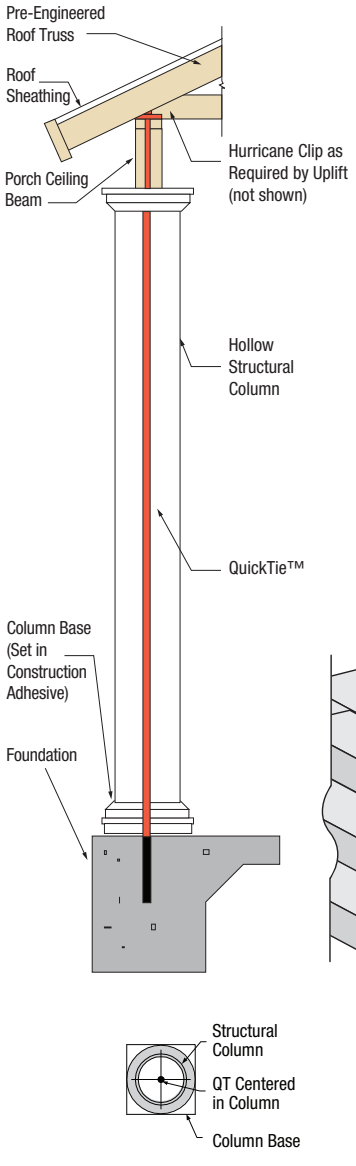
Column Details

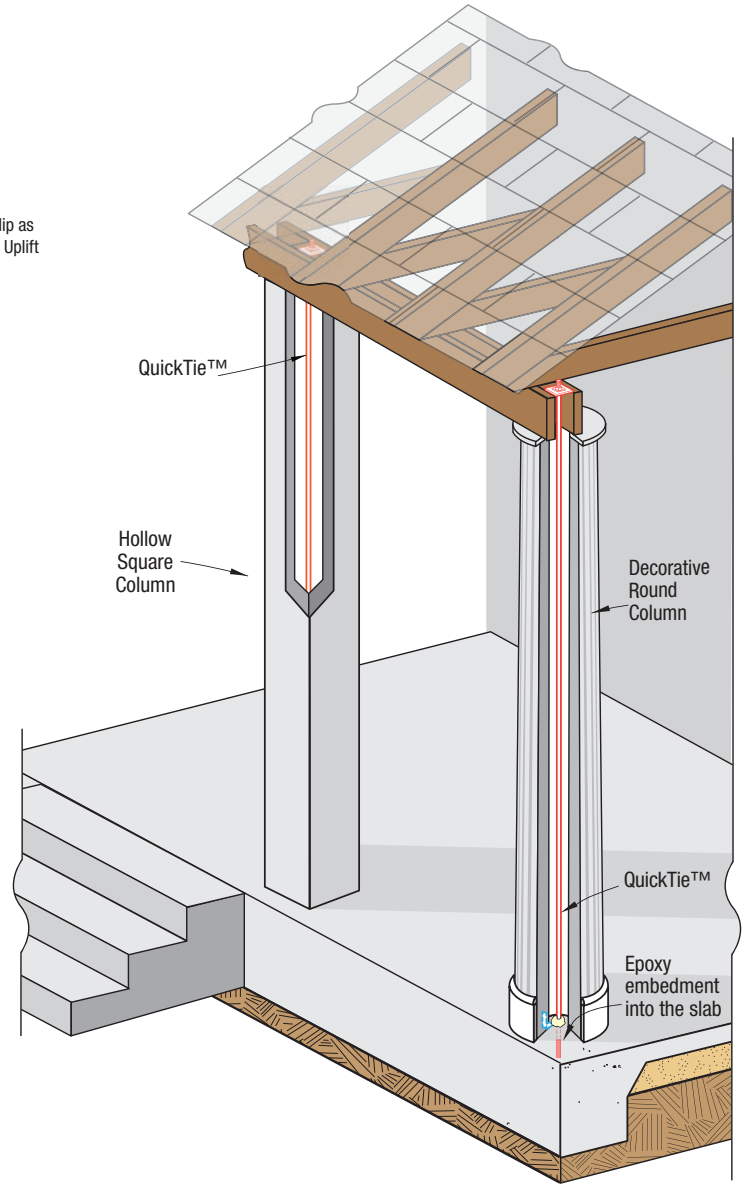


KIT CONTENTS:

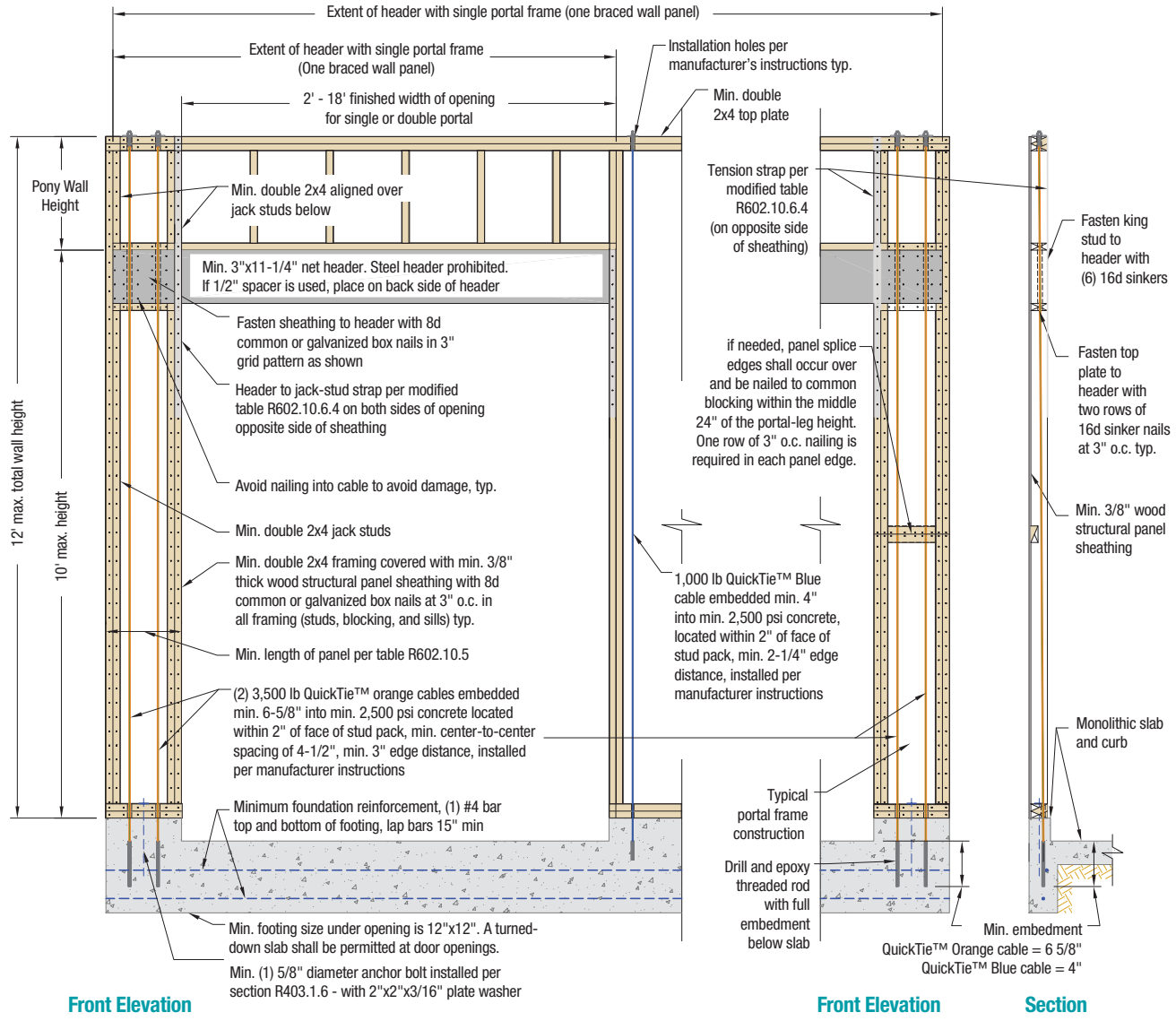
1. QuickTie™ Cable with washer and nut
2. Fishing Line to feed/pull cable
3. Installation Instructions

Column Installation Video





Portal Frame Details



MODIFIED TABLE R602.10.6.4 TENSION STRAP CAPACITY FOR RESISTING WIND PRESSURES PERPENDICULAR TO METHOD PFH

MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (FT)	MAXIMUM TOTAL WALL HEIGHT (FT)	MAXIMUM OPENING WIDTH (FT)	ADJACENT TO QUICKTIE™ BLUE CABLE TENSION STRAP CAPACITY REQUIRED (LB)[1,2,3]						ADJACENT TO QUICKTIE™ ORANGE CABLE TENSION STRAP CAPACITY REQUIRED (LB)[1,2,3]					
				Ultimate Design Wind Speed, Vult (mph)						Ultimate Design Wind Speed, Vult (mph)					
				110	115	130	110	115	130	110	115	130	110	115	130
				Exposure B			Exposure C			Exposure B			Exposure C		
2X4 No. 2 Grade	0	10	18	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	1	10	9	NR	NR	NR	NR	NR	750	NR	NR	NR	NR	NR	NR
			16	NR	NR	1,050	1,075	1,500	2,950	NR	NR	NR	NR	NR	450
			18	NR	275	1,375	1,400	1,850	DR	NR	NR	NR	NR	NR	DR
	2	10	9	NR	NR	475	500	875	2,125	NR	NR	NR	NR	NR	NR
			16	775	1,175	2,525	2,550	3,125	DR	NR	NR	NR	NR	625	DR
			18	1,075	1,500	2,950	2,975	DR	DR	NR	NR	450	475	DR	DR
	2	12	9	150	500	1,650	1,675	2,175	DR	NR	NR	NR	NR	NR	DR
			16	1,875	2,375	DR	DR	DR	DR	NR	NR	DR	DR	DR	DR
			18	2,425	2,975	DR	DR	DR	DR	NR	475	DR	DR	DR	DR
	4	12	9	1,275	1,750	DR	DR	DR	DR	NR	NR	DR	DR	DR	DR
			12	2,225	2,775	DR	DR	DR	DR	NR	275	DR	DR	DR	DR
2X6 Stud Grade	2	12	9	NR	NR	700	700	1,025	2,050	NR	NR	NR	NR	NR	NR
			16	825	1,150	2,225	2,225	2,675	DR	NR	NR	NR	NR	175	DR
			18	1,200	1,550	2,725	2,750	DR	DR	NR	NR	225	250	DR	DR
	4	12	9	450	750	1,700	1,725	2,125	DR	NR	NR	NR	NR	NR	DR
			16	1,050	1,400	DR	DR	DR	DR	NR	NR	DR	DR	DR	DR
			18	2,350	2,800	DR	DR	DR	DR	NR	300	DR	DR	DR	DR

NOTES:

1. DR = Design Required
2. NR = Not Required
3. Straps shall be installed in accordance with manufacturer's recommendations.

Masonry Installation Video

1

Layout QuickTie locations

2

Tack Anchor Bolt Assemblies at each location

3

Pour concrete

4

Lay CMU first course with knockouts located at each anchor bolt. (Knockouts may be placed inside or outside)

5

Finish laying CMU block wall in running bond pattern

6

Install 2x8 Southern Pine wood top plates (pressure treated bottom plate) continuously at top of wall

7

Check truss layout to ensure no conflicts with QuickTie locations

8

Drill holes in top plates above each anchor bolt location

9

Feed QuickTie through the top plates at each anchor bolt location

10

Connect each QuickTie to the anchor bolt in foundation using coupler or reduced coupler

11

Prestress QuickTie to specified load using Masonry tension device

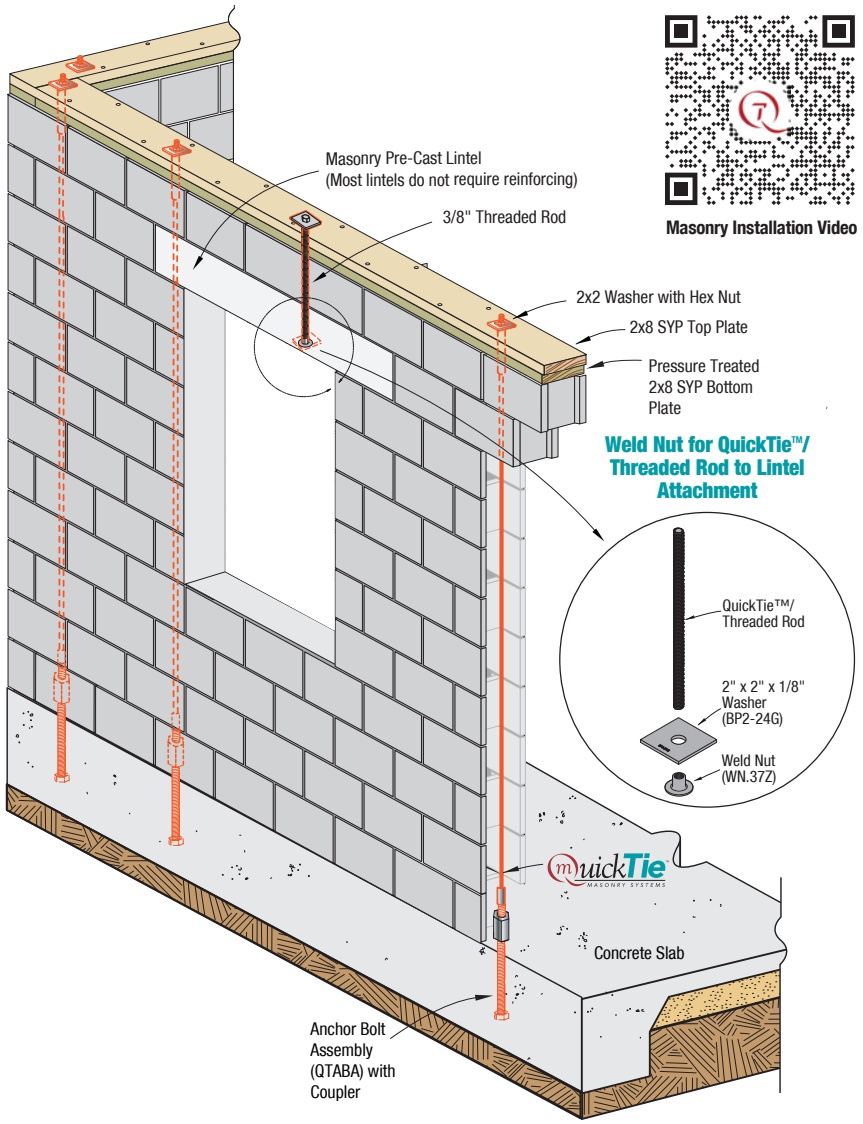
Typical Masonry Installation

PRODUCT FEATURES:

The QuickTie™ Masonry System is a post-tension masonry wall anchoring system consisting of PVC-coated wire rope with threaded studs swaged to each end. The bottom threaded stud of the wire rope is fed through a pre-drilled hole at the double top plate, and then coupled to an embedded anchor bolt, or, epoxied into cured concrete to anchor it to the foundation. Once secured to the foundation, the cable is tensioned from the top plate of the wall to a specified load by tightening a hex nut down the upper threaded stud onto a steel base plate. This provides a continuous load path hold down resistance for the wall. Trusses are connected with QuickTie™ Connectors to provide distribution of load to the QuickTie™ System.

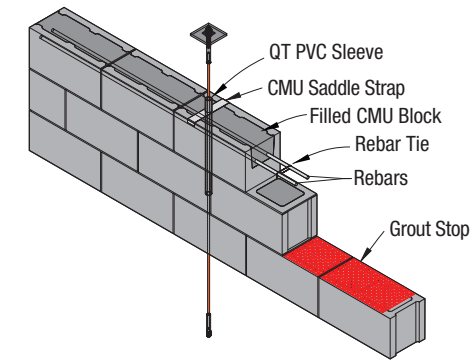
THE QuickTie ADVANTAGE:

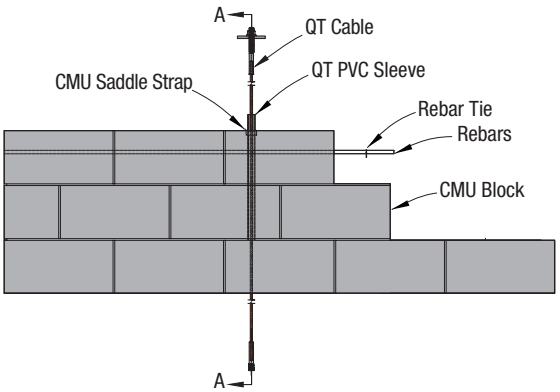
- Less Expensive than Conventional Masonry
- 30% Stronger than Conventional Masonry
- Meets Building Code Requirements
- Pre-Stressing Helps Prevent Stair Step Cracks
- Quicker – Cuts Days Out of the Construction Cycle
- Installs in Hours (NOT DAYS)
- Eliminates Steel and Concrete Reinforcing
- Safer on Workers
  - No Workers Walking Lintels with Heavy Hoses
  - No Rebar Above the Slab with “OSHA SAFE” Caps
- Environmentally Friendly (Eliminates Concrete Washout for Lintels)
- All Components Can be Inspected after Framing
- Eliminates Lintel Inspection
- Eliminates Coordination and Installation of Truss Anchors
- Uninterrupted Load Path from the Uppermost Top Plate to the Foundation
- Wood Top Plates Allows for Easier Connection of Trusses on Top of Wall
- Lighter Structure–May Allow Reduced Footing Sizes

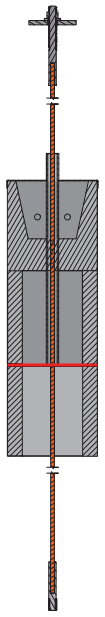


Masonry Installation Video

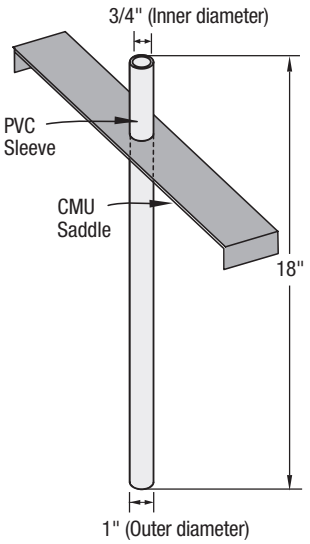
QuickTie™ Masonry - PVC Sleeve





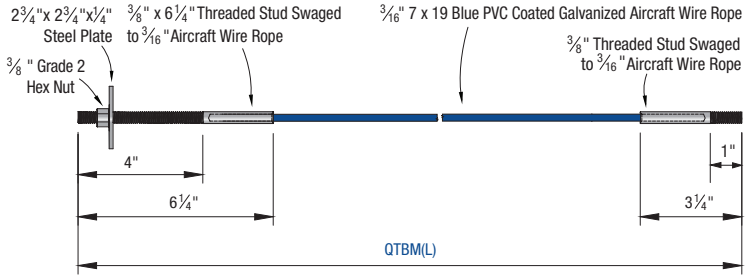


SECTION A-A



QTMS

U.S. PATENT NO. 9,297,176; 10,280,963; 10,364,569



QTBM
Blue

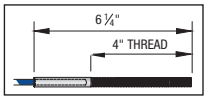
ALLOWABLE LOAD: 2,102 LB
PRESTRESS LOAD: 2,940 LB

Wire Rope:
- Breaking Strength : 4,200 lb

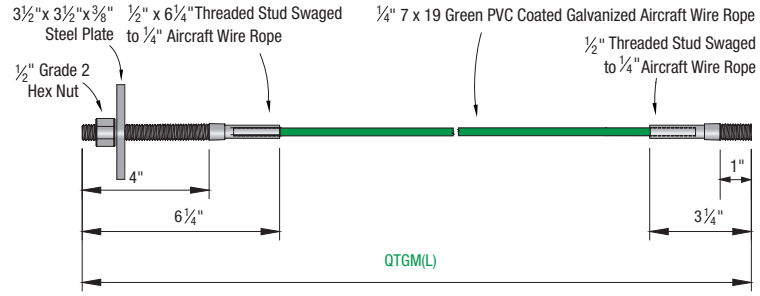
Hole Diameter:
- Top Plate : 1"
- Concrete : 7/16"

Concrete:
- Min. Comp. Strength : 2,500 psi
- Min. Embedment : 4"
- Min. Edge Distance : 4"

Epoxy Application



TER 1404-06; FL #17106



QTGM
Green

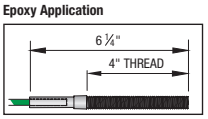
ALLOWABLE LOAD: 3,504 LB
PRESTRESS LOAD: 4,900 LB

Wire Rope:
- Breaking Strength : 7,000 lb

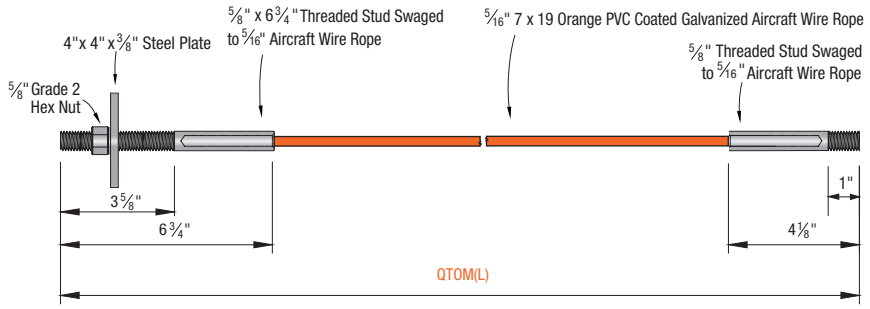
Hole Diameter:
- Top Plate : 1"
- Concrete : 9/16"

Concrete:
- Min. Comp. Strength : 2,500 psi
- Min. Embedment : 4"
- Min. Edge Distance : 4"

Epoxy Application



TER 1404-06; FL #17106



QTOM
Orange

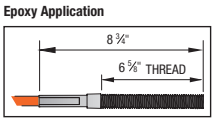
ALLOWABLE LOAD: 4,905 LB
PRESTRESS LOAD: 6,860 LB

Wire Rope:
- Breaking Strength : 9,800 lb

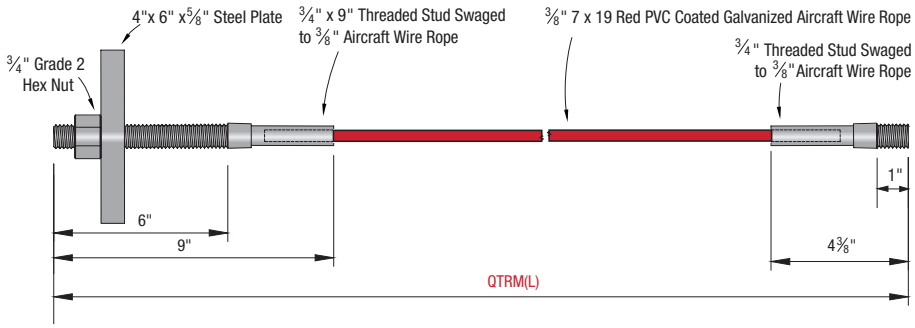
Hole Diameter:
- Top Plate : 1"
- Concrete : 3/4"

Concrete:
- Min. Comp. Strength : 2,500 psi
- Min. Embedment : 6-5/8"
- Min. Edge Distance : 4"

Epoxy Application



TER 1404-06; FL #17106



QTRM
Red

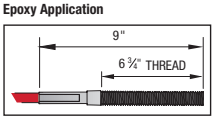
ALLOWABLE LOAD: 7,207 LB
PRESTRESS LOAD: 10,080 LB

Wire Rope:
- Breaking Strength : 14,400 lb

Hole Diameter:
- Top Plate : 1"
- Concrete : 7/8"

Concrete:
- Min. Comp. Strength : 2,500 psi
- Min. Embedment : 8-1/8"
- Min. Edge Distance : 4"

Epoxy Application



TER 1404-06; FL #17106

NOTES:

1. Masonry Ties are manufactured in one inch (1") increments from 2' to 30'.
2. Masonry Tie part numbers, QTXM(L), correspond to the length (L) measured from the top of embed surface to the uppermost top plate.
   (Example: For L = 17'-1", QuickTie™ part numbers are QTBM17.1 for 3/16"; QTGM17.1 for ¼"; QTOM17.1 for 5/16" and, QTRM17.1 for 3/8").
3. To anchor the QuickTie™ System to the foundation, QE-1 or QE-2 Epoxy Adhesive is used (Refer to Page 24 for product information).

HA4, HA6, HA8, HA10, QGC, MTS & HTS

PRODUCT FEATURES:

Hurricane Anchors/Clips (HA4, HA6, HA8 & HA10) add increased resistance to wind uplift. HA's reduces toe-nailing, utilizing correctly located nail holes for fast, easy and strong attachment of rafters and trusses to plates and studs.

The QuickTie™ Girder Connectors (QGC & QGCW) are used for girder truss connections where uplift load requirements are high.

The Medium Twist Straps (MTS) and Heavy Twist Straps (HTS) are used to resist wind uplift and manufactured in lengths of 16", 20", 24" and 28". The straps have an offset shape to allow for twisting and bending. Each strap is 1-1/4" wide with nail holes (staggered across the width) punched at 1" along its length.

MATERIAL:

HA4, HA6, HA8 & HA10 - 18 Gauge
QGC - 12 Gauge
MTS - 16 Gauge
HTS - 14 Gauge

COATING:

Galvanized (G185)

INSTALLATION:

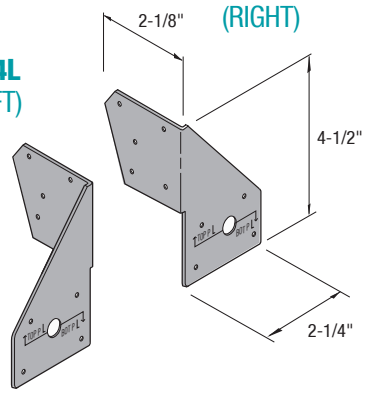
- Use all specified fasteners in schedule to achieve the tabulated values.

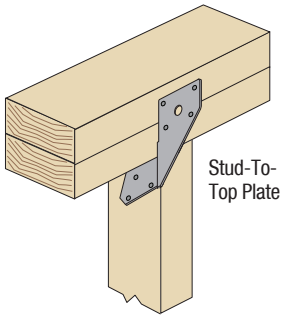
CODE COMPLIANCE:

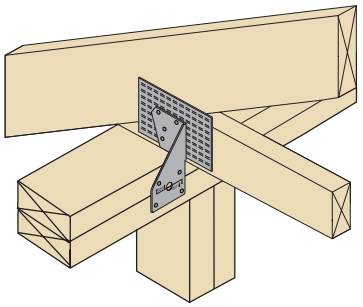
TER 0910-01; FL 3557

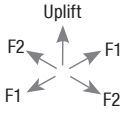
HA4L (LEFT)

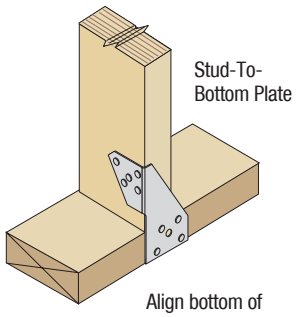
HA4R (RIGHT)



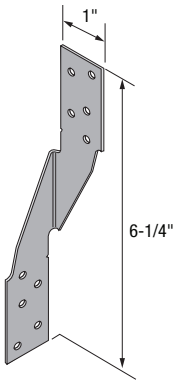




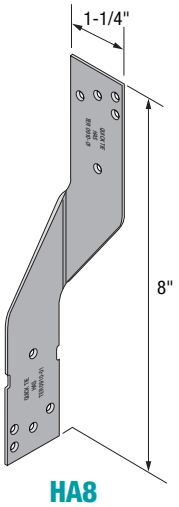




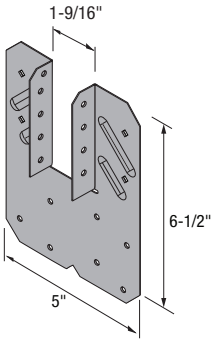
Align bottom of connector to bottom of wood plate.



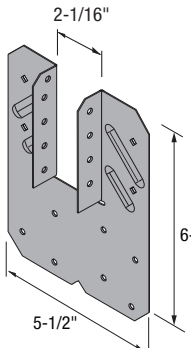
HA6



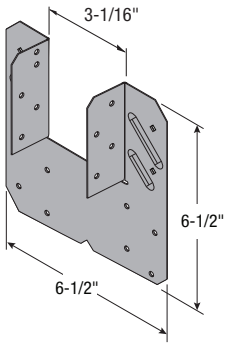
HA8



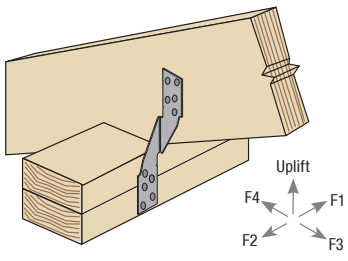
HA10

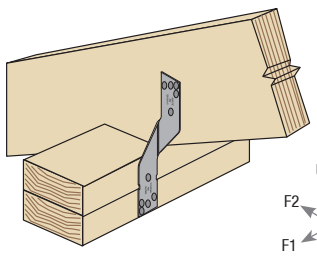


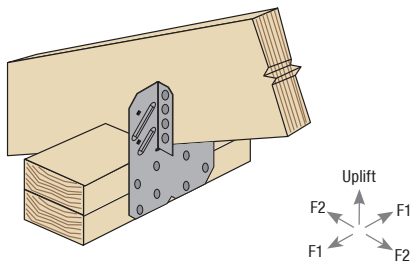
HA10R

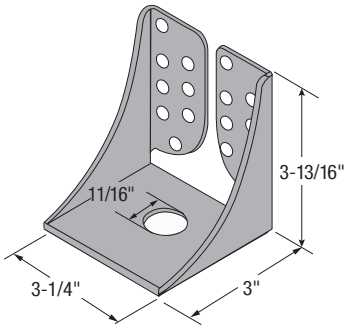


HA10-2

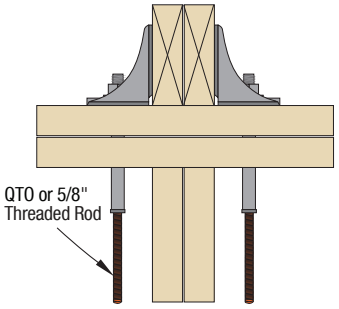




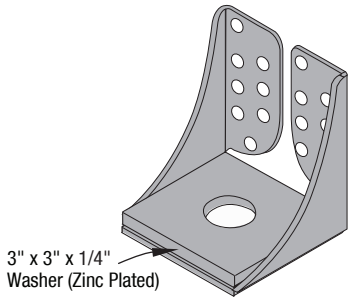




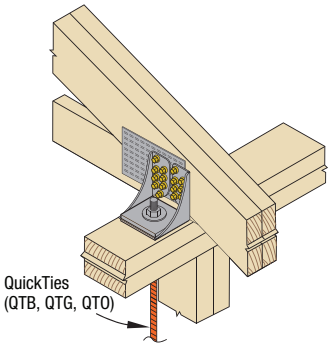
QGC for QT Cables
(Part includes structural wood screws)

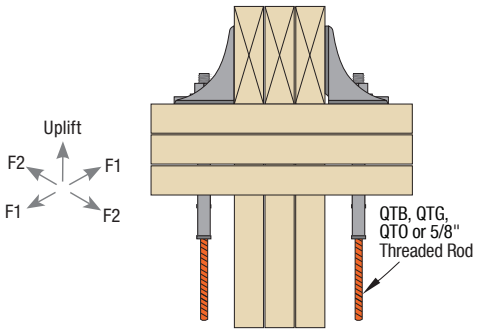


QGC (back-to-back)
for 2-ply truss/rafter

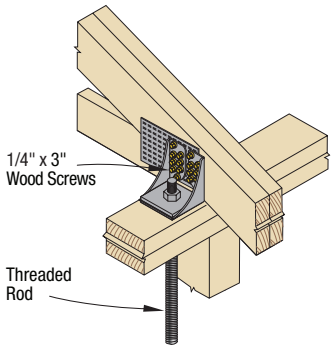


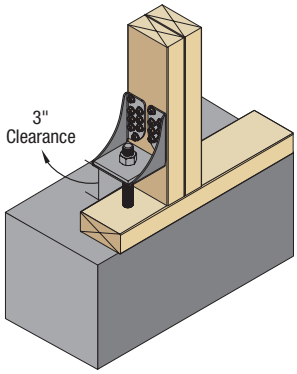
QGCW for Threaded Rods
(Part includes washer and structural wood screws)



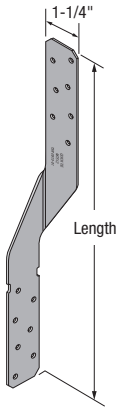


QGC (back-to-back)
for 3-ply truss/rafter

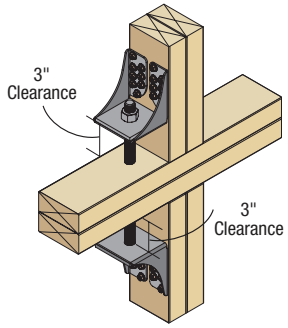


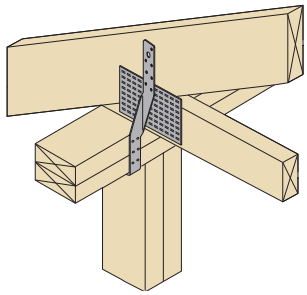


QGCW as Holdown



MTS & HTS





POST-INSTALL GIRDER TIE DOWNS (PHGT & PHHGT)

PRODUCT FEATURES:

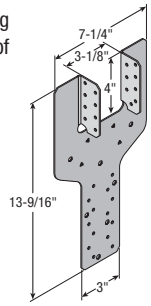
The PHGT series connectors, also known as Post-Install Girder Tie Downs, offer an effective solution for securing multi-ply girder trusses and facilitating the transfer of lateral wind loads to supporting wood and masonry walls.

MATERIAL:
PHGT2 – 14 ga
PHHGT3 & PHHGT4 – 12 ga

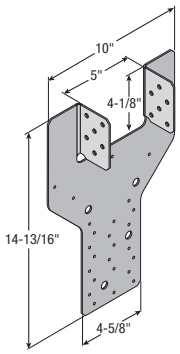
COATING:
Galvanized (G185)

INSTALLATION:
• Use all specified fasteners to achieve values indicated.

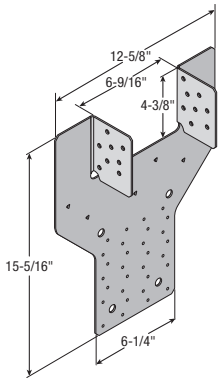
CODE COMPLIANCE:
TER 0910-01; FL 3557



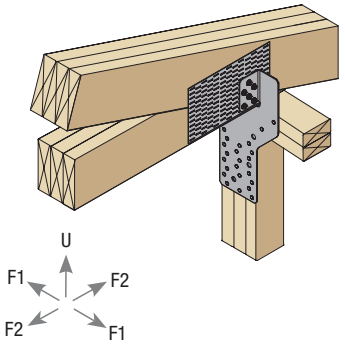
PHGT2



PHHGT3



PHHGT4



PHHGT3
Wood Installation

ALLOWABLE LOADS FOR HA4, HA6, HA8, HA10 & QGC[1,2] AND MTS & HTS (LB)[3,4,5]

	Products	Fasteners			Southern Pine (SG = 0.55)				Douglas Fir-Larch (SG = 0.50)				Spruce-Pine-Fir (SG = 0.42)			
		Type	Rafter/ Truss	Plates	Uplift		F1	F2	Uplift		F1	F2	Uplift		F1	F2
					1.0	1.6	1.6	1.6	1.0	1.6	1.6	1.6	1.0	1.6	1.6	1.6
HA	HA4	8d x 1-1/2 (0.131 x 1.5")	5	4	-	662	180	120	-	599	158	120	-	514	135	106
		10d x 1-1/2 (0.148 x 1.5")														
	HA6	8d x 1-1/2 (0.131 x 1.5")	5	5	535	705	145	140	495	655	125	125	425	575	80	100
	HA8	8d x 1-1/2 (0.131 x 1.5")	5	5	-	600	61	61	-	600	61	61	-	485	61	61
		10d x 1-1/2 (0.148 x 1.5")	5	5	-	815	94	94	-	705	69	69	-	540	69	69
	HA10 HA10R HA10-2	10d x 1-1/2 (0.148 x 1.5")	9	8	1,005	1,140	560	335	930	1,055	515	310	800	910	335	220
		10d Common (0.148 x 3")			1,005	1,350	560	330	930	1,245	515	280	800	1,075	335	230
MTS	MTS12-3Z MTS16-3Z MTS20-3Z MTS24-3Z	10d x 1-1/2 (0.148 x 1.5")	14[6]	7[7]	895	1,085	-	-	825	1,000	-	-	715	865	-	-
		10d Common (0.148 x 3")														
HTS	HTS16-3Z HTS20-3Z HTS24-3Z HTS28-3Z	10d x 1-1/2 (0.148 x 1.5")	22[6]	11[7]	1,445	1,665	-	-	1,340	1,540	-	-	1,160	1,330	-	-
		10d Common (0.148 x 3")														
GC	QGC	1/4" Wood Screw (included)	16	(1) QTB	1,910	1,910	-	-	1,910	1,910	-	-	1,910	1,910	-	-
				(1) QTG	3,180	3,180	-	-	3,180	3,180	-		3,180	3,180	-	-
				(1) QTO	4,350	4,455	2,040	935	4,015	4,455	1,910	885	3,465	4,390	1,570	765
	QGCW	1/4" Wood Screw (included)	16	(1) 5/8" Threaded Rod	4,350	5,445	1,235	770	4,015	5,085	1,185	705	3,465	4,455	1,090	550
	QGC/QGCW	1/4" Wood Screw (included)	32	(2) QTO or (2) 5/8" Threaded Rods	8,715	8,715	-	-	8,450	8,450	-	-	7,295	7,295	-	-

NOTES:

1. Hurricane Anchors/Clips may be installed on both sides of the framing member for twice the load. QGC/QGCW may be installed on both sides (back-to-back) of the 3-ply rafter/truss for twice the load.
2. The tabulated loads are valid for clips installed on the inside or the outside of the wall. However, to maintain a continuous load path for uplift, connections in close proximity to one another, such as truss-to-plate and plate-to-stud, clips should be installed on the same side of the wall.
3. Straps do not have to be wrapped over the truss or rafter to achieve the loads shown.
4. Straps may be installed on either side of the framing member.
5. The number of fasteners shown in the table is the minimum required to achieve the loads shown.
6. Minimum nails required per strap.
7. Minimum nails at each end of the strap.

ALLOWABLE LOADS FOR PHGT (LB)[1, 2, 3]

Part No.	Steel	No. of Piles (Beam/ Truss)	Fasteners				SOUTHERN PINE (SP)			DOUGLAS FIR-LARCH (DF-L)			SPRUCE-PINE-FIR (S-P-F)		
			Rafter/Truss		Stud/Top Plate		Uplift (U)	Lateral (F1, Parallel)	Lateral (F2), Perp.)	Uplift (U)	Lateral (F1, Parallel)	Lateral (F2), Perp.)	Uplift (U)	Lateral (F1, Parallel)	Lateral (F2), Perp.)
			Qty	Size	Qty	Size	C_D = 1.6			C_D = 1.6			C_D = 1.6		
PHGT2	14 ga	2	16	10d Common	18	10d common	2,435	980	255	2,435	900	255	2,240	745	210
PHHGT3	12 ga	3	12	SWH3	26	10d common	3,355	1,230	410	3,130	1,230	360	2,710	1,060	280
PHHGT4	12 ga	4	16	SWH3	37	10d common	4,185	2,230	590	3,625	1,825	510	4,185	2,230	510

NOTES:

1. Allowable loads are provided for load duration factor (C_D) of 1.6. No further increase is permitted.
2. Loading in the F1 direction indicates shear forces parallel to the plane of the wall.
3. Loading in the F2 direction indicates shear forces perpendicular to the plane of the wall.

Hurricane Gusset Angles and Tension Tie

HGA & HGAM

PRODUCT FEATURES:

Hurricane Gusset Angles (HGA/HGAM) are 90-degree framing angles used to connect truss/rafter joists to the top plate of wood framing walls or to the top of concrete filled CMU walls.

The HGAKT and HGAMKT includes HGA framing angle and wood screws for wood framing applications and HGA framing angle, wood screws and concrete screws for concrete/CMU applications, respectively.

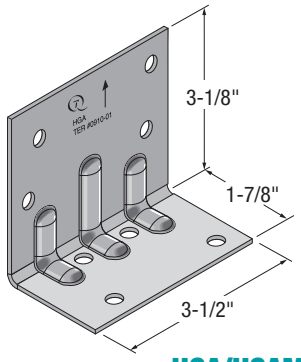
MATERIAL:
HGA - 14 Gauge

COATING:
Galvanized (G185)

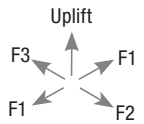
INSTALLATION:
- Use all specified fasteners in schedule to achieve values indicated.

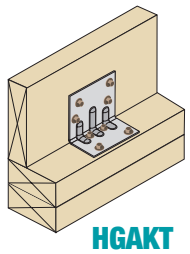
CODE COMPLIANCE:
TER 0910-01; FL 3557

Part No.	Description	Carton Qty
HGAKT	HGA, 1/4" x 1-1/2" Wood Screws & 1/4 x 3" Wood Screws	10
HGAMKT	HGA, 1/4" x 1-1/2" Wood Screws & 1/4 x 2-1/4" Concrete Screws	10

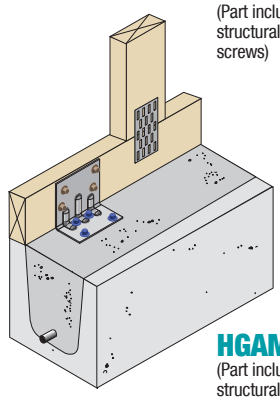


HGA/HGAM





HGAKT
(Part includes structural wood screws)



HGAMKT
(Part includes structural wood screws and concrete screws)

ALLOWABLE LOADS FOR HGA & HGAM (LB)

	Fasteners[4,5,6]				Allowable Loads (lb)[1,2,3]							
	To Rafter/Truss		To Top Plate or Concrete		Douglas Fir-Larch (0.50)				Spruce-Pine-Fir (0.42)			
					Uplift	F1	F2	F3	Uplift	F1	F2	F3
	Type	Quantity	Type	Quantity	1	1.6	1.6	1.6	1	1.6	1.6	1.6
HGA	SWH15 Wood Screw (1/4" x 1-1/2")	4	SWH3 Wood Screw (1/4" x 3")	4	1,085	1,085	895	1,150	740	695	420	825
HGAM	SWH15 Wood Screw (1/4" x 1-1/2")	4	Concrete Screw (1/4" x 2-1/4")	4	815	1,005	955	1,005	815	805	505	825

NOTES:
1. Loading in the F1 direction indicates shear forces parallel to the plane of the wall.
2. Loading in the F2 direction indicates shear forces perpendicular to the plane of the wall, acting towards the gusset angle.
3. Loading in the F3 direction indicates shear forces perpendicular to the plane of the wall, acting away from the gusset angle.
4. Minimum fastener penetration must be equal to the screw length less the thickness of the metal side plate.
5. Refer to page 61 for structural wood screw SWH15 (1/4" x 1-1/2") and SWH3 (1/4" x 3") details.
6. Concrete Screw: Minimum Allowable Tension (T) and Shear (S) Capacities When Installed in Concrete, T = 204 lb and S = 219 lb, Min. Edge Distance = 2", Min. Spacing = 1", Min End Distance = 2.65", Min. Embedment = 1½", Min. Concrete Compression Strength, f'_c = 2,500 psi, Load combination 1.2D+1.6L with D = 0.3, L = 0.7 and α = 1.48.

HDTT (DECK TENSION TIE)

PRODUCT FEATURES:

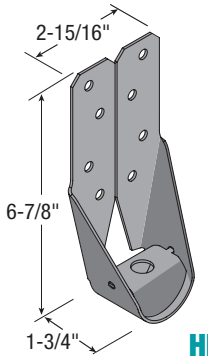
HDTT's are deck tension ties designed to satisfy the minimum requirements for deck construction per IRC 507. The part includes bend washer and wood screws.

MATERIAL:
HDTT – 14 ga

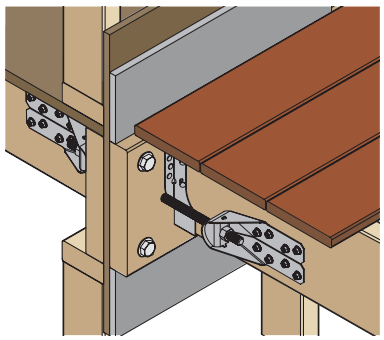
COATING:
Galvanized (G185)

INSTALLATION:
- Use all specified fasteners in schedule to achieve values indicated.

CODE COMPLIANCE:
TER 0910-01; FL 3557



HDTT
(Part includes bend washer and structural wood screws)



ALLOWABLE LOADS FOR DECK TENSION TIE (LB)[1,2,3]

Part No.	Steel Gauge	Dimensions (in.)						Fasteners				Tension (lb)			
		Height	Width	Depth	Stud to Anchor CL (in.)	Bottom Plate to Top of Washer (in.)	Min. Wood Member Siz (in.)	Nails/Screws/Bolts		Anchor Bolt[2]		SP / DF-L (SG = 0.50)		S-P-F (SG = 0.42)	
		H	W	D				Type	Qty	Size	Qty	C_D = 1.6	Δ(1.6)	C_D = 1.6	Δ(1.6)
HDTT	14 ga	6-7/8	3-1/4	1-3/4	1	1-3/16	1-1/2 x 3-1/2	SWH15	8	1/2	1	2,430	0.347	2,105	-

NOTES:
1. Anchor bolt installation into any substrates should be designed to resist the allowable uplift loads.
2. Allowable loads based on connector attached to 2x4 from 1" above the base (i.e. no resistance from prying action).
3. Refer to page 61 for structural wood screw SWH15 (1/4"x1-1/2") details.

SC34, SC35 & SC35F

PRODUCT FEATURES:

Shear Clips (SC34 & SC35) and Flat Shear Clips (SC35F) are multi-purpose framing angles and flat connectors for connecting studs, plates, headers, joists, etc.

MATERIAL:
SC34, SC35 & SC35F - 18 Gauge

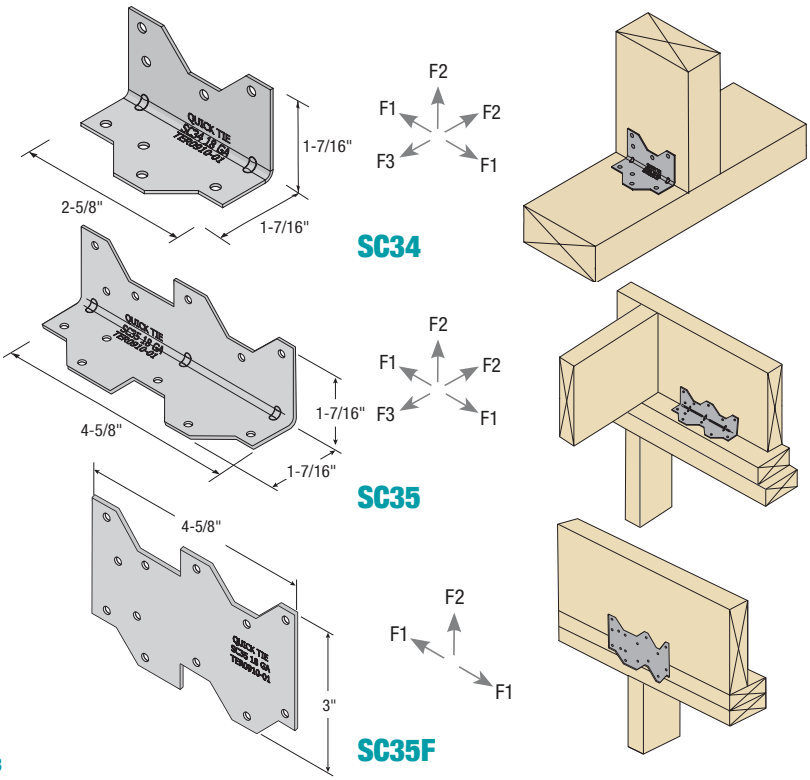
COATING:
Galvanized (G185)

INSTALLATION:

- Use all specified fasteners in schedule to achieve values indicated.

CODE COMPLIANCE:
TER 0910-01; FL 3557

Part No.	Carton Qty
SC34	100
SC35	100
SC35F	200



ALLOWABLE LOADS FOR SC34, SC35 & SC35F[1,2,3]

	Species	Fasteners		Allowable Loads (lb)					
				F1		F2		F3	
		Size	Total	1.00	1.60	1.00	1.60	1.00	1.60
SC34	Southern Pine	8d x 1-1/2"	8	425	685	425	685	215	325
	Douglas Fir-Larch	8d x 1-1/2"	8	395	630	395	630	170	255
	Spruce-Pine-Fir	8d x 1-1/2"	8	340	545	340	540	110	175
SC35	Southern Pine	10d x 1-1/2"	12	755	840	295	295	755	1,075
		10d x 3"	12	770	940	260	260	770	1,015
	Douglas Fir-Larch	10d x 1-1/2"	12	695	765	265	265	695	975
		10d x 3"	12	710	840	235	235	710	905
	Spruce- Pine-Fir	10d x 1-1/2"	12	595	650	200	230	595	830
		10d x 3"	12	605	720	200	200	605	775
SC35F	Southern Pine	10d x 1-1/2"	12	755	775	500	500	-	-
		10d x 3"	12	735	735	550	550	-	-
	Douglas Fir-Larch	10d x 1-1/2"	12	655	655	430	430	-	-
		10d x 3"	12	615	615	470	470	-	-
	Spruce- Pine-Fir	10d x 1-1/2"	12	560	560	370	370	-	-
		10d x 3"	12	525	525	400	400	-	-

NOTES:

1. The tabulated loads are per framing angle and flat connector.
2. SC34 and SC35 - Connectors are required on both sides of the joist/stud to achieve the F3 loads in both directions.
3. SC34 and SC35 - When installed directly across from each other on both sides of the joist/stud, the thickness of the joist/stud should be twice the length of the fastener.

PC SERIES

PRODUCT FEATURES:

Plywood clips are used to support sheathing edges between rafters/ trusses.

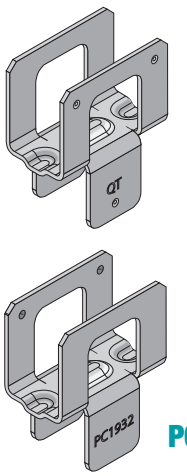
MATERIAL: 20 Gauge

COATING:
Galvanized

INSTALLATION:

- Install same size clip as panel thickness centered between rafter/ truss.

Part No.	Description	Carton Qty
PC38	3/8" Panel Thickness	250
PC716	7/16" Panel Thickness	250
PC1532	15/32" Panel Thickness	250
PC12	1/2" Panel Thickness	250
PC1932	19/32" Panel Thickness	250
PC58	5/8" Panel Thickness	250
PC34	3/4" Panel Thickness	250



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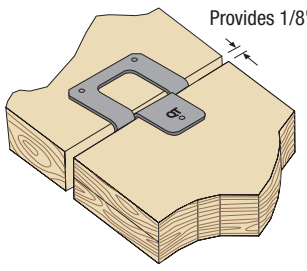


LS & MS SERIES

PRODUCT FEATURES:

The Light Strap (LS) and Medium Strap (MS) are used to resist wind uplift and are manufactured in lengths varying from 9-5/8" to 48-5/8". Each strap is 1-1/4" wide with nail holes punched at intervals of 1-1/2" along its length. The nail holes are staggered across the width of the strap to prevent wood splitting.

MATERIAL:

LS Series - 20 Gauge
MS Series - 16 Gauge

COATING:

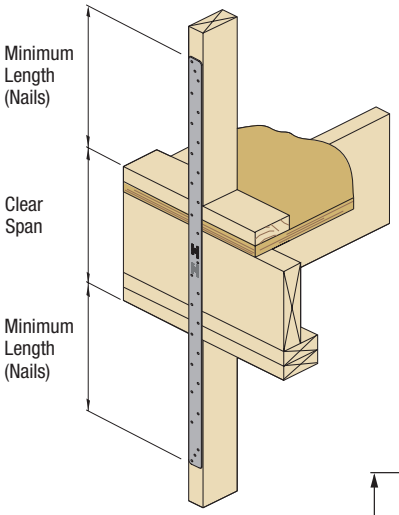
Galvanized (G185)

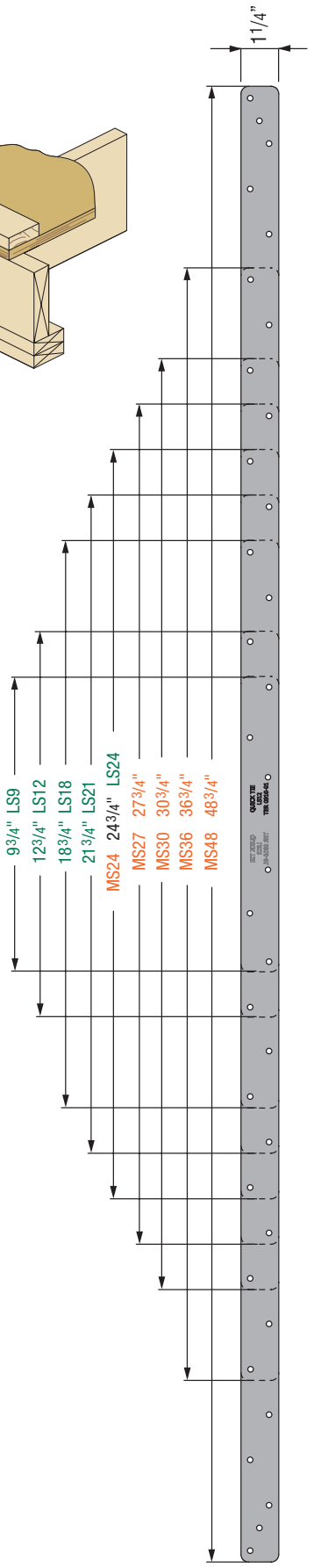
INSTALLATION:

- Use all specified fasteners in schedule to achieve values indicated.
- May be installed on each side of member for twice the loads when the member thickness is greater than 2-1/2".

CODE COMPLIANCE:

TER 0910-01; FL 3557





ALLOWABLE TENSION LOADS FOR LS & MS SERIES STRAPS (LB)[1,2]

	Part No.	Fasteners		Southern Pine (SG=0.55)		Douglas Fir - Larch (SG=0.50)		Spruce - Pine - Fir (SG=0.42)	
		Size	No. of Nails Each End of Strap	Load Duration Factor[2]					
				1.00	1.60	1.00	1.60	1.00	1.60
LS	LS9	8d (0.131 x 2.5")	4	415	665	385	615	330	525
	LS12		5	520	830	480	770	410	655
	LS18		7	730	1,165	670	1,075	575	920
	LS21		8	830	1,295	770	1,229	655	1,050
	LS24		9	935	1,295	865	1,295	740	1,180
	LS9	10d x 1½ (0.148 x 1.5")	4	500	800	460	735	390	625
	LS12		5	625	1,000	575	920	490	785
	LS18		7	875	1,295	805	1,290	685	1,100
	LS21		8	1,000	1,295	920	1,295	785	1,255
	LS24		9	1,125	1,295	1,035	1,295	880	1,295
	LS9	10d (0.148 x 3")	4	505	805	465	740	395	635
	LS12		5	630	1,010	580	930	495	790
	LS18		7	880	1,295	810	1,295	695	1,110
	LS21		8	1,010	1,295	930	1,295	790	1,265
	LS24		9	1,135	1,295	1,045	1,295	890	1,295
MS	MS24	8d (0.131 x 2.5")	9	980	1,570	910	1,455	785	1,255
	MS27		10	1,090	1,745	1,010	1,615	870	1,390
	MS30		11	1,200	1,920	1,110	1,780	955	1,530
	MS36		13	1,415	2,120	1,315	2,100	1,130	1,810
	MS48		14	1,525	2,120	1,415	2,120	1,220	1,950
	MS24	10d x 1½ (0.148 x 1.5")	9	1,150	1,845	1,060	1,700	910	1,455
	MS27		10	1,280	2,050	1,180	1,890	1,010	1,615
	MS30		11	1,410	2,120	1,300	2,075	1,110	1,780
	MS36		13	1,665	2,120	1,535	2,120	1,315	2,100
	MS48		14	1,790	2,120	1,650	2,120	1,415	2,120
	MS24	10d (0.148 x 3")	9	1,180	1,885	1,090	1,740	935	1,500
	MS27		10	1,310	2,095	1,210	1,935	1,040	1,665
	MS30		11	1,440	2,120	1,330	2,120	1,145	1,830
	MS36		13	1,705	2,120	1,575	2,120	1,350	2,120
	MS48		14	1,835	2,120	1,695	2,120	1,455	2,120

NOTES:

1. Allowable tension loads apply for uplift when the straps are installed vertically.
2. Allowable tension loads for load durations of two months (i.e., 115%) and seven days (i.e., 125%) may be obtained by multiplying the corresponding allowable tension load in the load duration factor column marked "1.0" by 1.15 or 1.25 respectively, with a maximum of 1,295 lb (LS Series) and 2,118 lb (MS Series)

CS & CMST SERIES

PRODUCT FEATURES:

Coil strap has pre-drilled nail holes, which allows the installer to cut to any length as required for a wide range of wood connections.

MATERIAL:

CS Series (1-1/4" width):
- CS20-250 - 20 Gauge, 250 ft
- CS18-200 - 18 Gauge, 200 ft
- CS16-150 - 16 Gauge, 150 ft
- CS14-100 - 14 Gauge, 100 ft

CMST Series (3" width):
- CMST16-54 - 16 Gauge, 54 ft
- CMST14-52.5 - 14 Gauge, 52-1/2 ft
- CMST14-12 - 14 Gauge, 12 ft
- CMST12-40 - 12 Gauge, 40 ft
- CMSTC84 - 12 Gauge, 7 ft

COATING:

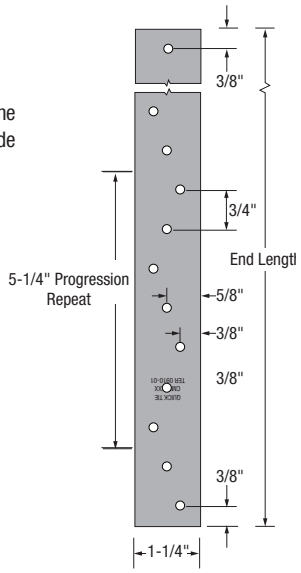
Galvanized (G185)

INSTALLATION:

- Use all specified fasteners in schedule to achieve values indicated.

CODE COMPLIANCE:

TER 0910-01; FL 3557



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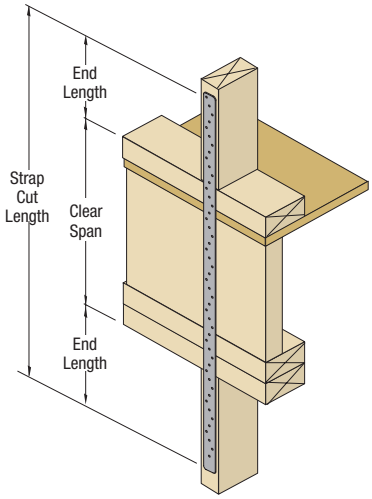
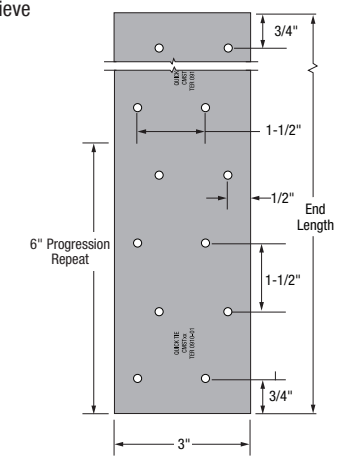
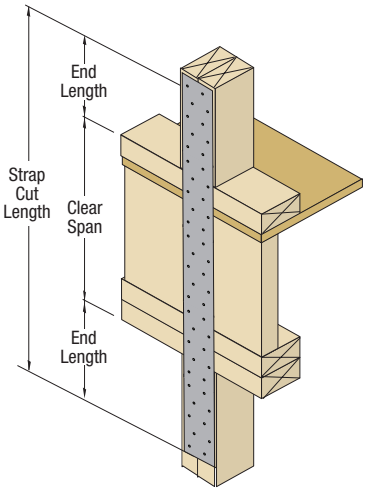




CMST



ALLOWABLE TENSION LOADS FOR CS20-250 STRAP (LB)[1,2]

	Fasteners		Minimum Required End Length (in.)	Southern Pine (SG = 0.55)		Douglas Fir - Larch (SG = 0.50)		Spruce - Pine - Fir (SG = 0.42)	
				Load Duration Factor					
	Size	No. Each End of Strap		1.0	1.60	1.0	1.60	1.0	1.60
CS20-250	8d x 1-1/2 (0.131 x 1.5") & 8d Common (0.131 x 2.5")	4	3	417	668	385	615	331	530
		6	4½	626	1,001	577	923	497	794
		8	6	834	1,335	769	1,231	662	1,059
		10	7½	1,043	1,343	962	1,343	828	1,324
		11	8¼	1,147	1,343	1,058	1,343	910	1,343
		12	9	1,252	1,343	1,154	1,343	993	1,343
		13	93/4	1,343	1,343	1,250	1,343	1,076	1,343
		14	10½	1,343	1,343	1,343	1,343	1,159	1,343
		15	11¼	1,343	1,343	1,343	1,343	1,241	1,343
		16	12	1,343	1,343	1,343	1,343	1,324	1,343
		17	12¾	1,343	1,343	1,343	1,343	1,343	1,343
	10d x 1-1/2 (0.148 x 1.5") & 10d Common (0.148 x 3")	4	3	504	806	464	743	399	639
		6	4½	755	1,209	696	870	599	958
		8	6	1,007	1,343	928	1,114	799	1,278
		9	6¾	1,133	1,343	1,044	1,343	898	1,343
		10	7½	1,259	1,343	1,160	1,343	998	1,343
		11	8¼	1,343	1,343	1,277	1,343	1,098	1,343
		12	9	1,343	1,343	1,343	1,343	1,198	1,343
		13	9¾	1,343	1,343	1,343	1,343	1,298	1,343
		14	10½	1,343	1,343	1,343	1,343	1,343	1,343

Continued on next page.

NOTES:

1. Allowable tension loads apply for uplift when the straps are installed vertically.
2. The total strap cut length is equal to the Clear Span + 2 x End Length.

ALLOWABLE TENSION LOADS FOR CS18-200 & CS16-150 COIL STRAPS (LB)[1,2]

	Fasteners		Minimum Required End Length (in.)	Southern Pine (SG = 0.55)		Douglas Fir - Larch (SG = 0.50)		Spruce - Pine - Fir (SG = 0.42)	
				Load Duration Factor					
	Size	No. Each End of Strap		1.0	1.60	1.0	1.60	1.0	1.60
CS18-200	8d x 1-1/2 (0.131 x 1.5") & 8d Common (0.131 x 2.5")	4	3	426	682	393	629	339	543
		6	4-1/2	639	1,022	590	944	509	814
		8	6	852	1,363	787	1,258	678	1,085
		10	7-1/2	1,065	1,704	983	1,573	848	1,356
		12	9	1,278	1,777	1,180	1,777	1,017	1,628
		14	10-1/2	1,491	1,777	1,376	1,777	1,187	1,777
		16	12	1,704	1,777	1,573	1,777	1,356	1,777
		17	12-3/4	1,777	1,777	1,671	1,777	1,441	1,777
		18	13-1/2	1,777	1,777	1,770	1,777	1,526	1,777
		19	14-1/4	1,777	1,777	1,777	1,777	1,611	1,777
		20	15	1,777	1,777	1,777	1,777	1,695	1,777
		21	15-3/4	1,777	1,777	1,777	1,777	1,777	1,777
	10d x 1-1/2 (0.148 x 1.5") & 10d Common (0.148 x 3")	4	3	512	820	473	757	408	652
		6	4-1/2	769	1,230	709	1,135	611	978
		8	6	1,025	1,640	946	1,513	815	1,304
		10	7-1/2	1,281	1,777	1,182	1,777	1,019	1,630
		11	8-1/4	1,409	1,777	1,300	1,777	1,121	1,777
		12	9	1,537	1,777	1,419	1,777	1,223	1,777
		13	9-3/4	1,665	1,777	1,537	1,777	1,324	1,777
		14	10-1/2	1,777	1,777	1,655	1,777	1,426	1,777
		15	11-1/4	1,777	1,777	1,773	1,777	1,528	1,777
		16	12	1,777	1,777	1,777	1,777	1,630	1,777
		17	12-3/4	1,777	1,777	1,777	1,777	1,732	1,777
		18	13-1/2	1,777	1,777	1,777	1,777	1,777	1,777
CS16-150	8d x 1-1/2 (0.131 x 1.5") & 8d Common (0.131 x 2.5")	4	3	438	701	405	648	350	560
		6	4-1/2	658	1,052	608	972	525	840
		8	6	877	1,403	810	1,296	700	1,120
		10	7-1/2	1,096	1,754	1,013	1,621	875	1,400
		12	9	1,315	2,104	1,215	1,945	1,050	1,679
		14	10-1/2	1,534	2,206	1,418	2,026	1,225	1,959
		16	12	1,754	2,206	1,621	2,206	1,400	2,206
		18	13-1/2	1,973	2,206	1,823	2,206	1,575	2,206
		20	15	2,192	2,206	2,026	2,206	1,749	2,206
		21	15-3/4	2,206	2,206	2,127	2,206	1,837	2,206
		22	16-1/2	2,206	2,206	2,206	2,206	1,924	2,206
		24	18	2,206	2,206	2,206	2,206	2,099	2,206
		26	19-1/2	2,206	2,206	2,206	2,206	2,206	2,206
	10d x 11/2 (0.148 x 1.5") & 10d Common (0.148 x 3")	4	3	525	840	485	776	419	670
		6	4-1/2	788	1,261	728	1,164	628	1,005
		8	6	1,050	1,681	970	1,553	838	1,340
		10	7-1/2	1,313	2,101	1,213	1,941	1,047	1,675
		12	9	1,576	2,206	1,456	2,206	1,256	2,010
		14	10-1/2	1,838	2,206	1,698	2,206	1,466	2,206
		16	12	2,101	2,206	1,941	2,206	1,675	2,206
		18	13-1/2	2,206	2,206	2,183	2,206	1,885	2,206
		20	15	2,206	2,206	2,206	2,206	2,094	2,206
		22	16-1/2	2,206	2,206	2,206	2,206	2,206	2,206

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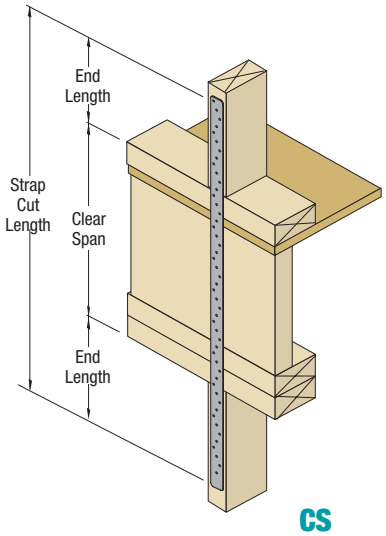

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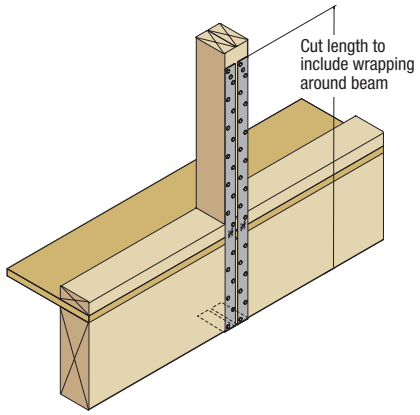
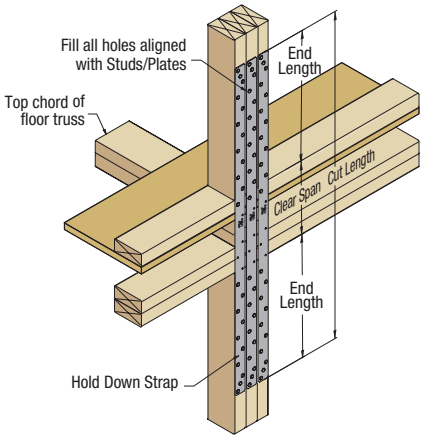


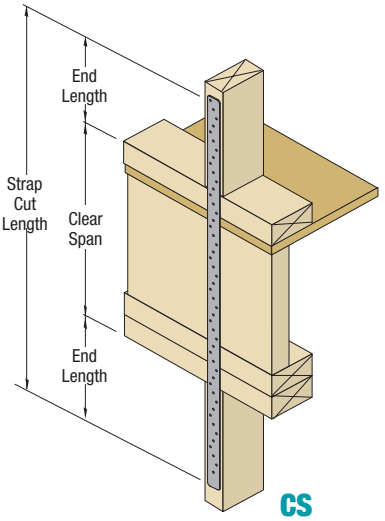


NOTES:

1. Allowable tension loads apply for uplift when the straps are installed vertically.
2. The total strap cut length is equal to the Clear Span + 2 x End Length.

ALLOWABLE TENSION LOADS FOR CS14-100 & CMST16-54 COIL STRAPS (LB)[1,2]

	Fasteners		Minimum Required End Length (in.)	Southern Pine (SG = 0.55)		Douglas Fir - Larch (SG = 0.50)		Spruce - Pine - Fir (SG = 0.42)	
				Load Duration Factor					
	Size	No. Each End of Strap		1.0	1.60	1.0	1.60	1.0	1.60
CS14-100	8d x 1-1/2 (0.131 x 1.5") & 8d Common (0.131 x 2.5")	4	3	457	732	423	677	366	586
		6	4-1/2	686	1,098	635	1,015	549	878
		8	6	915	1,464	846	1,354	732	1,171
		10	7-1/2	1,143	1,829	1,058	1,692	915	1,464
		12	9	1,372	2,195	1,269	2,031	1,098	1,757
		14	10-1/2	1,601	2,561	1,481	2,369	1,281	2,050
		16	12	1,829	2,718	1,692	2,708	1,464	2,343
		18	13-1/2	2,058	2,718	1,904	2,718	1,647	2,635
		20	15	2,287	2,718	2,115	2,718	1,830	2,718
		22	16-1/2	2,515	2,718	2,327	2,718	2,013	2,718
		24	18	2,718	2,718	2,539	2,718	2,196	2,718
		25	18-3/4	2,718	2,718	2,644	2,718	2,288	2,718
		26	19-1/2	2,718	2,718	2,718	2,718	2,379	2,718
		27	20-1/4	2,718	2,718	2,718	2,718	2,471	2,718
		28	21	2,718	2,718	2,718	2,718	2,562	2,718
		29	21-3/4	2,718	2,718	2,718	2,718	2,654	2,718
		30	22-1/2	2,718	2,718	2,718	2,718	2,718	2,718
	10d x 1-1/2 (0.148 x 1.5") & 10d Common	4	3	545	872	504	806	436	697
		6	4-1/2	818	1,308	756	1,210	654	1,046
		8	6	1,090	1,744	1,008	1,613	872	1,395
		10	7-1/2	1,363	2,180	1,260	2,016	1,090	1,743
		12	9	1,635	2,616	1,512	2,419	1,307	2,092
		14	10-1/2	1,908	2,718	1,764	2,718	1,525	2,441
		16	12	2,180	2,718	2,016	2,718	1,743	2,718
		18	13-1/2	2,453	2,718	2,268	2,718	1,961	2,718
		20	15	2,718	2,718	2,520	2,718	2,179	2,718
		21	15-1/2	2,718	2,718	2,646	2,718	2,288	2,718
		22	16-1/2	2,718	2,718	2,718	2,718	2,397	2,718
		23	17-1/4	2,718	2,718	2,718	2,718	2,506	2,718
		24	18	2,718	2,718	2,718	2,718	2,615	2,718
		25	18-3/4	2,718	2,718	2,718	2,718	2,718	2,718
CMST16-54	10d Common (0.148 x 3")	6	4-1/2	788	1,261	728	1,164	628	1,005
		12	9	1,576	2,521	1,456	2,329	1,256	2,010
		18	13-1/2	2,364	3,782	2,183	3,493	1,885	3,015
		24	18	3,151	5,042	2,911	4,658	2,513	4,021
		30	22-1/2	3,939	5,295	3,639	5,295	3,141	5,026
		36	27	4,727	5,295	4,367	5,295	3,769	5,295
		42	31-1/2	5,295	5,295	5,095	5,295	4,397	5,295
		48	36	5,295	5,295	5,295	5,295	5,026	5,295
		54	40-1/2	5,295	5,295	5,295	5,295	5,295	5,295
	16d Common (0.162 x 3.5")	6	4-1/2	933	1,493	861	1,378	743	1,189
		12	9	1,866	2,985	1,723	2,757	1,486	2,378
		18	13-1/2	2,799	4,478	2,584	4,135	2,229	3,567
		24	18	3,732	5,295	3,446	5,295	2,972	4,755
		30	22-1/2	4,665	5,295	4,307	5,295	3,715	5,295
		36	27	5,295	5,295	5,169	5,295	4,458	5,295
		42	31-1/2	5,295	5,295	5,295	5,295	5,201	5,295
		48	36	5,295	5,295	5,295	5,295	5,295	5,295



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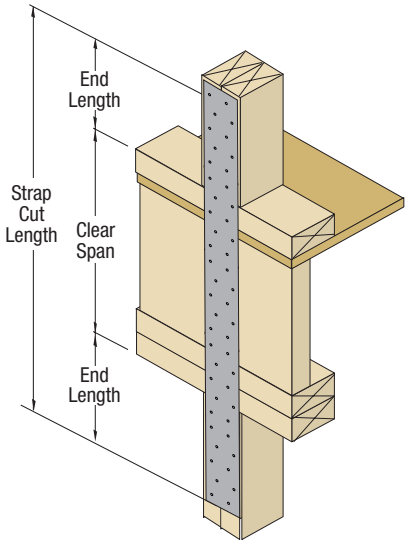


CMST

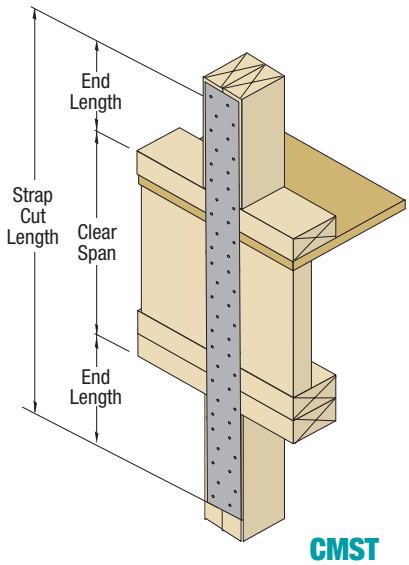
NOTES:

1. Allowable tension loads apply for uplift when the straps are installed vertically.
2. The total strap cut length is equal to the Clear Span + 2 x End Length.

Continued on next page.

ALLOWABLE TENSION LOADS FOR CMST14-52.5, CMST14-12, CMST12-40 & CMST84 COIL STRAPS (LB)[1,2]

	Fasteners		Minimum Required End Length (in.)	Southern Pine (SG = 0.55)		Douglas Fir - Larch (SG = 0.50)		Spruce - Pine - Fir (SG = 0.42)	
				Load Duration Factor					
	Size	No. Each End of Strap		1.0	1.60	1.0	1.60	1.0	1.60
CMST14-52.5 & CMST14-12	10d Common (0.148 x 3")	6	4-1/2	818	1,308	756	1,210	654	1,046
		12	9	1,635	2,616	1,512	2,419	1,307	2,092
		18	13-1/2	2,453	3,925	2,268	3,629	1,961	3,138
		24	18	3,270	5,233	3,024	4,839	2,615	4,184
		30	22-1/2	4,088	6,524	3,780	6,049	3,269	5,230
		36	27	4,906	6,524	4,536	6,524	3,922	6,276
		42	31-1/2	5,723	6,524	5,293	6,524	4,567	6,524
		48	36	6,524	6,524	6,049	6,524	5,230	6,524
		54	40-1/2	6,524	6,524	6,524	6,524	5,884	6,524
		60	45	6,524	6,524	6,524	6,524	6,524	6,524
	16d Common (0.162 x 3.5")	6	4-1/2	962	1,540	889	1,425	768	1,229
		12	9	1,924	3,079	1,779	2,846	1,537	2,459
		18	13-1/2	2,887	4,619	2,668	4,269	2,305	3,688
		24	18	3,849	6,158	3,558	5,692	3,074	4,918
		30	22-1/2	4,811	6,524	4,447	6,524	3,842	6,147
		36	27	5,775	6,524	5,336	6,524	4,611	6,524
		42	31-1/2	6,524	6,524	6,226	6,524	5,379	6,524
		48	36	6,524	6,524	6,524	6,524	6,147	6,524
		54	40-1/2	6,524	6,524	6,524	6,524	6,524	6,524
CMST12-40 & CMSTC84	10d Common (0.148 x 3")	6	4-1/2	906	1,449	839	1,342	727	1,164
		12	9	1,811	2,898	1,678	2,684	1,455	2,328
		18	13-1/2	2,717	4,347	2,517	4,027	2,182	3,492
		24	18	3,622	5,795	3,356	5,369	2,910	4,656
		30	22-1/2	4,528	7,244	4,194	6,711	3,637	5,820
		36	27	5,433	8,693	5,033	8,053	4,365	6,984
		42	31-1/2	6,339	9,256	5,872	9,256	5,092	8,148
		48	36	7,244	9,256	6,711	9,256	5,820	9,256
		54	40-1/2	8,150	9,256	7,550	9,256	6,547	9,256
		60	45	9,055	9,256	8,390	9,256	7,275	9,256
		66	49-1/2	9,256	9,256	9,228	9,256	8,002	9,256
		72	54	9,256	9,256	9,256	9,256	8,730	9,256
		78	58-1/2	9,256	9,256	9,256	9,256	9,256	9,256
	16d Common (0.162 x 3.5")	6	4-1/2	1,051	1,681	973	1,557	843	1,349
		12	9	2,102	3,363	1,946	3,114	1,687	2,698
		18	13-1/2	3,153	5,044	2,919	4,671	2,530	4,048
		24	18	4,204	6,726	3,892	6,228	3,373	5,397
		30	22-1/2	5,254	8,407	4,866	7,785	4,216	6,746
		36	27	6,305	9,256	5,839	9,256	5,060	8,095
		42	31-1/2	7,356	9,256	6,812	9,256	5,903	9,256
		48	36	8,407	9,256	7,785	9,256	6,746	9,256
		54	40-1/2	9,256	9,256	8,758	9,256	7,589	9,256
		60	45	9,256	9,256	9,256	9,256	8,433	9,256
		66	49-1/2	9,256	9,256	9,256	9,256	9,256	9,256



CMST

NOTES:

1. Allowable tension loads apply for uplift when the straps are installed vertically.
2. The total strap cut length is equal to the Clear Span + 2 x End Length.

PCM & EPCM SERIES

PRODUCT FEATURES:

PCM and EPCM are post caps and end post caps used for post-to-beam connection applications.

MATERIAL:

PCM/EPCM - 16 Gauge and 12 Gauge

COATING:

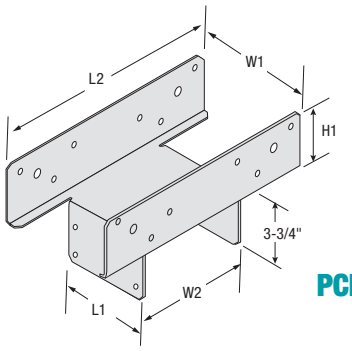
Galvanized (G185)

INSTALLATION:

- Use all specified fasteners in schedule to achieve values indicated.
- EOR's approval is required to substitute 16 ga post caps and end post caps for 12 ga post caps and end post caps.

CODE COMPLIANCE:

TER 0910-01; FL 3557



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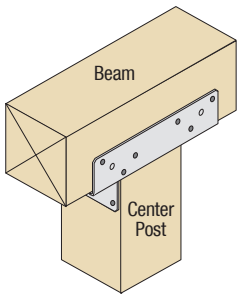
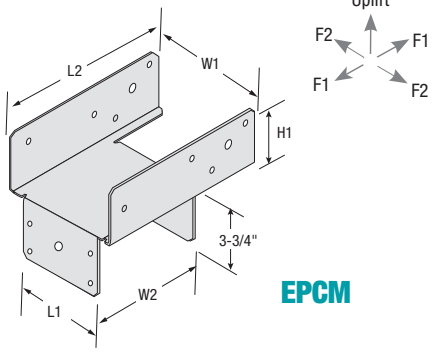
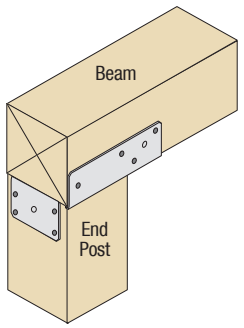




EPCM



ALLOWABLE LOADS FOR PCM & EPCM (LB)[1,2]

Part Name	Part No.	Dimensions (in.)					Fasteners[1]				Allowable Loads (lb)[2]					
							Beam		Post		Southern Pine (SG=0.55)			Douglas Fir - Larch (SG=0.50)		
		W1	W2	H1	L1	L2	Qty	Size	Qty	Size	Uplift	F1	F2	Uplift	F1	F2
12ga PCM	PCM44	3-9/16	3-9/16	3-9/16	2-7/16	11	12	16d	8	16d	2,120	2,050	1,955	2,085	1,855	1,795
	PCM46		5-9/16			13										
	PCM48		7-9/16			15										
	PCM64	5-1/2	3-9/16	3-1/2	3-13/16	11										
	PCM66		5-9/16			13										
	PCM68		7-9/16			15										
	PCM77	7-1/8	7-1/8	3-11/16	5-5/8	14-9/16										
	PCM84	7-1/2	3-9/16	3-1/2	5-5/8	11										
	PCM86		5-9/16	3-3/8		13										
	PCM88		7-9/16	3-1/2		14-5/8										
16ga PCM	PCM44-16	3-9/16	3-9/16	3-9/16	2-7/16	11	12	16d	8	16d	1,875	1,875	1,730	1,845	1,640	1,590
	PCM46-16		5-9/16			13										
	PCM48-16		7-9/16			15										
	PCM64-16	5-1/2	3-9/16	3-1/2	3-13/16	11										
	PCM66-16		5-9/16			13										
	PCM68-16		7-9/16			15										
	PCM84-16	7-1/2	3-9/16	3-1/2	5-5/8	11										
	PCM86-16		5-9/16	3-3/8	5-1/8	13										
	PCM88-16		7-9/16	3-1/2		15										
12ga EPCM	EPCM44	3-9/16	3-9/16	3-9/16	2-7/16	7-1/4	8	16d	8	16d	2,120	2,050	1,955	2,085	1,855	1,795
	EPCM46		5-9/16			9-1/4										
	EPCM48		7-9/16			11-1/4										
	EPCM64	5-1/2	3-9/16	3-1/2	3-13/16	7-1/4										
	EPCM66		5-9/16			9-1/4										
	EPCM68		7-9/16			11-1/4										
	EPCM77	7-1/8	7-1/8	3-11/16	5-5/8	10-13/16										
	EPCM84	7-1/2	3-9/16	3-1/2	5-5/8	7-1/4										
	EPCM86		5-9/16	3-1/2		9-1/4										
	EPCM88		7-9/16	3-1/2		11-1/8										
16ga EPCM	EPCM44-16	3-9/16	3-9/16	3-9/16	2-7/16	7-1/4	8	16d	8	16d	1,875	1,815	1,730	1,845	1,640	1,590
	EPCM46-16		5-9/16			9-1/4										
	EPCM48-16		7-9/16			11-1/4										
	EPCM64-16	5-1/2	3-9/16	3-1/2	3-13/16	7-1/4										
	EPCM66-16		5-9/16			9-1/4										
	EPCM68-16		7-9/16			11-1/4										
	EPCM84-16	7-1/2	3-9/16	3-1/2	5-5/8	7-1/4										
	EPCM86-16		5-9/16	3-1/2		9-1/4										
	EPCM88-16		7-9/16	3-1/2		11-1/4										

NOTES:

1. Nails designated as 16d shall be 16d common nails (0.162 x 3.5", F_{yb} = 90,000 psi).
2. Allowable loads are provided for load duration factor (C_D) of 1.6. No further increase is permitted

CCS/ECCS SERIES

PRODUCT FEATURES:

Welded Column Caps (CCS) and End Column Caps (ECCS) are heavy post to beam connectors that uses QuickTie Structural Wood Screws for higher load rating.

MATERIAL:

CCS – 7 Gauge and 3 Gauge
ECCS – 7 Gauge and 3 Gauge

COATING:

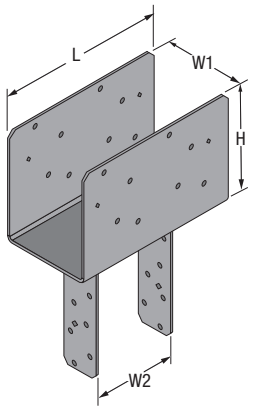
Spray Painted Primer (gray)

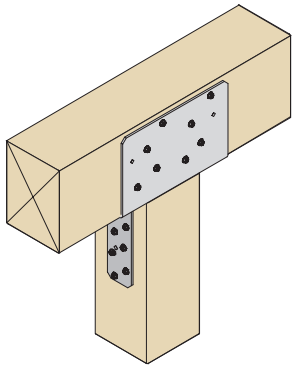
INSTALLATION:

- Use all specified fasteners in schedule to achieve values indicated.
- EOR to design the post and beam(s) to support the required loads.

CODE COMPLIANCE:

Call QT for code approval information.





CCS

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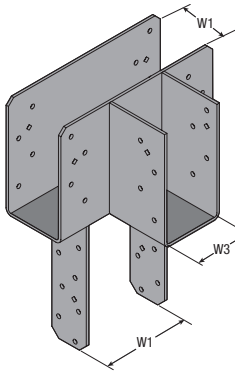

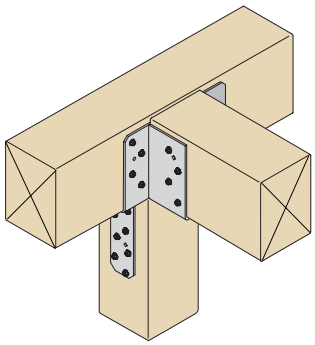

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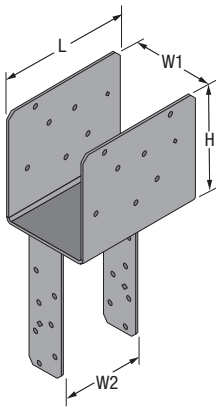
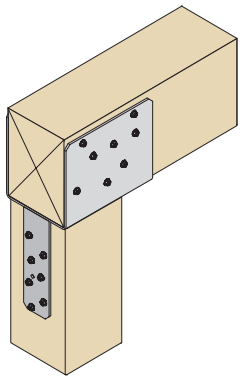
(Part includes structural wood screws)





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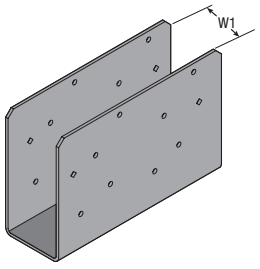
(Part includes structural wood screws)



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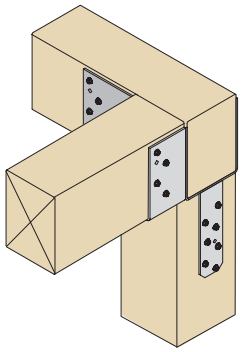
(Part includes structural wood screws)



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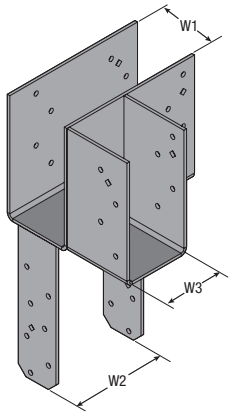

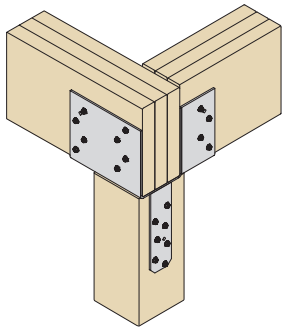

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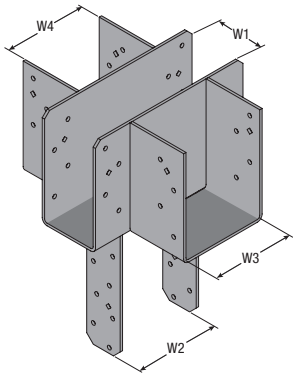
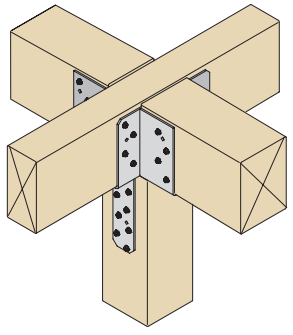
(Part includes structural wood screws)





ECCSC

(Part includes structural wood screws)

ALLOWABLE LOADS FOR CCS & ECCS (LB)[1,2]

Part Name	Part No.	Steel Thick., ga	Dimensions (in.)				Fastener Schedule[1]				Allowable Loads (lb)*	
							Beam		Post		SP/DF-L (0.50)	
			W1	W2	H	L	Qty	Type	Qty	Type	Bearing (C_D = 1.0)[2]	Uplift (C_D = 1.6)[3]
CCS	CCS325-4	7	3-1/4	3-5/8	7	11	16	SWH3	14	SWH3	22,560	7,420
	CCS325-6	7	3-1/4	5-1/2							22,560	
	CCS44	7	3-5/8	3-5/8							25,270	
	CCS45	7	3-5/8	5-3/8							25,270	
	CCS46	7	3-5/8	5-1/2							25,270	
	CCS4-71	7	3-5/8	7-1/8							25,270	
	CCS48	7	3-5/8	7-1/2							25,270	
	CCS525-4	3	5-1/4	3-5/8	7	11	16	SWH3	14	SWH3	43,720	7,420
	CCS525-6	3	5-1/4	5-1/2							43,720	
	CCS525-8	3	5-1/4	7-1/2							43,720	
	CCS5-71	3.	5-3/8	7-1/8							37,900	
	CCS64	7	5-1/2	3-5/8	7	11	16	SWH3	14	SWH3	39,705	7,420
	CCS66	7	5-1/2	5-1/2							39,705	
	CCS6-71	7	5-1/2	7-1/8							39,705	
	CCS68	7	5-1/2	7-1/2							39,705	
	CCS74	3	6-7/8	3-5/8	7	11	16	SWH3	14	SWH3	48,725	7,420
	CCS76	3	6-7/8	5-1/2							48,725	
	CCS77	3	6-7/8	7-1/8							48,725	
	CCS78	3	6-7/8	7-1/2							48,725	
	CCS71-4	3	7-1/4	3-5/8							50,530	
	CCS71-6	3	7-1/4	5-1/2							50,530	
	CCS71-71	3	7-1/4	7-1/4							50,530	
	CCS71-8	3	7-1/4	7-1/2							50,530	
	CCS84	3	7-1/2	3-5/8	7	11	16	SWH3	14	SWH3	54,145	7,420
	CCS86	3	7-1/2	5-1/2							54,145	
	CCS88	3	7-1/2	7-1/2							54,145	
	CCS94	3	8-7/8	3-5/8							63,165	
	CCS96	3	8-7/8	5-1/2							63,165	
	CCS98	3	8-7/8	7-1/2							63,165	
	CCS106	3	9-1/2	5-1/2							68,580	
ECCS	ECCS325-4	7	3-1/4	3-5/8	7	8-1/2	14	SWH3	14	SWH3	15,385	7,205
	ECCS325-6	7	3-1/4	5-1/2							15,385	
	ECCS44	7	3-5/8	3-5/8							17,815	
	ECCS45	7	3-5/8	5-3/8							17,225	
	ECCS46	7	3-5/8	5-1/2							19,525	
	ECCS47	7	3-5/8	7-1/8							21,820	
	ECCS48	7	3-5/8	7-1/2							19,525	
	ECCS525-4	3	5-1/4	3-5/8	7	8-1/2	14	SWH3	14	SWH3	23,445	7,205
	ECCS525-6	3	5-1/4	5-1/2							28,665	
	ECCS525-8	3	5-1/4	7-1/2							31,950	
	ECCS57	7	5-3/8	7-1/8							32,730	
	ECCS64	7	5-1/2	3-5/8	7	8-1/2	14	SWH3	14	SWH3	24,710	7,205
	ECCS66	7	5-1/2	5-1/2							30,355	
	ECCS67	7	5-1/2	7-1/8							30,680	
	ECCS68	7	5-1/2	7-1/2							30,680	
	ECCS74	3	6-7/8	3-5/8	7	8-1/2	14	SWH3	14	SWH3	28,840	7,205
	ECCS76	3	6-7/8	5-1/2							37,655	
	ECCS77	3	6-7/8	6-7/8							37,655	
	ECCS78	3	6-7/8	7-1/2							37,655	
	ECCS71-4	3	7-1/4	3-5/8	7	8-1/2	14	SWH3	14	SWH3	29,650	7,205
	ECCS71-6	3	7-1/4	5-1/2							37,050	
	ECCS71-71	3	7-1/4	7-1/4							39,050	
	ECCS71-8	3	7-1/4	7-1/2							39,050	
	ECCS84	7	7-1/2	3-5/8	7	8-1/2	14	SWH3	14	SWH3	31,275	7,205
	ECCS86	7	7-1/2	5-1/2							39,260	
	ECCS88	7	7-1/2	7-1/2							41,835	
	ECCS94	7	8-7/8	3-5/8	7	8-1/2	14	SWH3	14	SWH3	35,275	7,205
	ECCS96	7	8-7/8	5-1/2							44,760	
	ECCS98	7	8-7/8	7-1/2							48,810	
	ECCS106	7	9-1/2	5-1/2	7	8-1/2	14	SWH3	14	SWH3	48,050	7,205

NOTES:

1. Refer to page 61 for structural wood screw SWH3 (1/4" x 3") details.
2. Allowable uplift loads are provided for load duration factor (C_D) of 1.6. No further increase is permitted.

*Allowable loads per NDS calculations, call QT for code approval information.

PCS/PCES SERIES

PRODUCT FEATURES:

PCS and PCES are post caps and end post caps used for post-to-beam connection applications.

MATERIAL:

PCS/PCES – 18 Gauge

COATING:

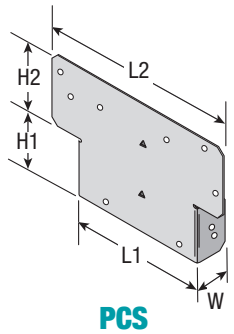
Galvanized (G185)

INSTALLATION:

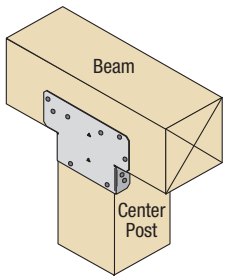
- Use all specified fasteners in schedule to achieve values indicated.

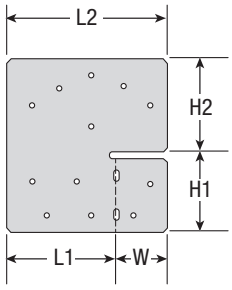
CODE COMPLIANCE:

TER 0910-01, FL 3557

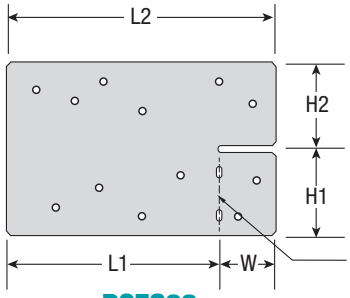


PCS

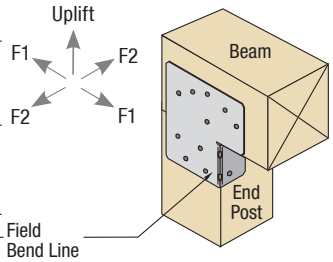




PCES44



PCES66



ALLOWABLE LOADS FOR PCS/PCES (LB)[1,2]

Part Name	Part No.	Dimensions					Fasteners Per Pair of Post Caps			Allowable Loads (lb) Per Pair of Post Caps (C_D = 1.6)					
		Width (in.)	Length (in.)		Height		Nail Size	Quantity		SP (0.55)		DF-L (0.50)		HF/S-P-F (0.42)	
		W	L1	L2	H1	H2		Beam	Post	Uplift	F1	Uplift	F1	Uplift	F1
PCS	PCS44	1-3/8	3-9/16	6-1/4	2-5/8	2-7/8	16d Common (0.162 x 3.5")	12	12	2,935	2,175	2,295	1,950	2,295	1,870
	PCS44R	1-1/2	4	7											
	PCS66	1-1/4	5-1/2	8											
	PCS66R	1-1/2	6	9											
PCES	PCES44	1-1/2	3-1/4	4-3/4	2-3/8	2-3/4	16d Common (0.162 x 3.5")	12	12	1,955	1,500	1,800	1,220	1,550	1,090
	PCES66	1-1/2	5-1/2	7	2-3/8	2-1/8		12	12	1,645	1,205	1,520	925	1,310	835

NOTES:

1. Allowable loads and fastener size/quantity provided are for a pair of post caps and end post caps.
2. Allowable loads are provided for a load duration factor (C_D) of 1.6. No further increase is permitted.

TENSION-COMPRESSION CONNECTORS (TCC)

PRODUCT FEATURES:

The tension-compression connector (TCC) is a load-transferring component that connects the girder/beam to the shear walls. It acts as a link between the horizontal girder and the vertical shear walls.

MATERIAL:

TCC16L/R – 7 ga

TCC21L/R – 3 ga

COATING:

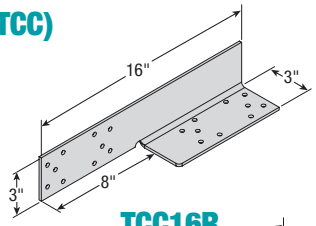
Spray Painted Primer (gray)

INSTALLATION:

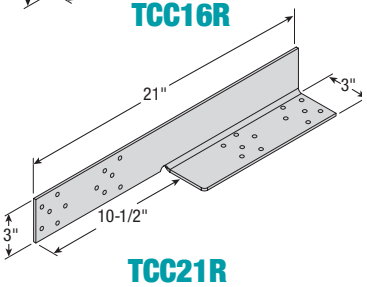
- Use all specified fasteners to achieve values indicated.

CODE COMPLIANCE:

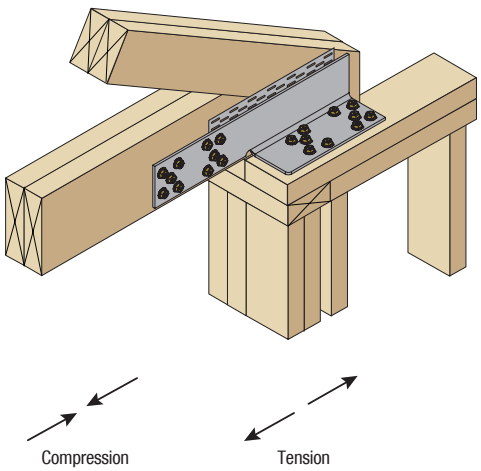
TER 0910-01



TCC16R



TCC21R



ALLOWABLE LOADS FOR TCC (LB)[1,2]

Part No.	Length, L (in.)	Fastener Type	Qty	Allowable Loads (lb)					
				SP (0.55)		DF-L (0.50)		SPF/ HF (0.42)	
				Compression	Tension	Compression	Tension	Compression	Tension
TCC16L	16	SWH3	20	2,600	3,890	2,410	3,605	2,095	3,130
TCC16R									
TCC21L	21	SWH3	24	4,370	5,780	4,370	5,500	3,920	4,720
TCC21R									

NOTES:

1. Allowable loads are provided for load duration factor (C_D) of 1.6. No further increase is permitted.
2. Refer to Page 61 for structural wood screw SWH3 (1/4"x3") details.

Top Mount Joist Hangers

TOP MOUNT U HANGERS (TFLP & TFH)

PRODUCT FEATURES:

Top Flange U-Hanger Series are top mount joist hangers used to resist gravity loads and uplift loads due to wind in single or multi-ply joist assembly in light-frame construction.

MATERIAL:

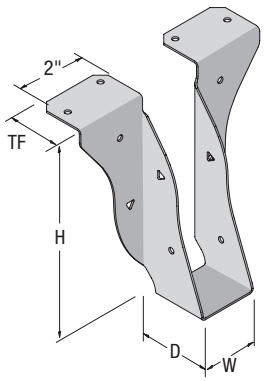
TFLP Series – 18 ga
TFH Series – 14 ga

COATING:

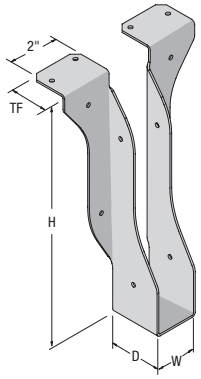
Galvanized (G185)

CODE COMPLIANCE:

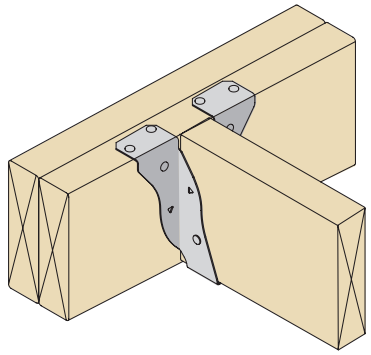
TER 1811-03, FL 3557



TFLP



TFH



ALLOWABLE LOADS FOR TOP MOUNT U HANGERS (LB)

Part No. TFLP	Joist Size (IN.)	Hanger Dimensions (in.)				Fasteners				SP (SG = 0.55)				DF-L (SG = 0.50)				HF/SPF (SG = 0.42)			
		Width, W	Height, H	Depth, D	Top Flange TF	Header		Joist		Floor	Roof	Roof	Uplift	Floor	Roof	Roof	Uplift	Floor	Roof	Roof	Uplift
						Qty.	Size	Qty.	Size	1.0	1.15	1.25	1.6	1.0	1.15	1.25	1.6	1.0	1.15	1.25	1.6
TFLP26	2x6	1-9/16	5-3/8	1-1/2	1-5/16	6	16d Common	2	10d x 1-1/2	1,280	1,280	1,280	230	1,245	1,245	1,245	230	945	945	945	165
TFLP28	2x8		7-1/4																		225
TFH210	2x10	1-9/16	9-3/16	2	1-7/16	8	16d Common	4	10d x 1-1/2	1,765	1,765	1,765	380	1,535	1,535	1,535	380	1,165	1,165	1,165	285
TFH212	2x12		11-1/8																		
TFH214	2x14		13-1/8																		

NOTES:

1. Nails designated as 16d shall be 16d common nails (0.162" x 3.5", F_{yb} = 90,000 psi).
2. Allowable loads are provided for load duration factor (C_D) of 1.0, 1.15, 1.25 and 1.6.
3. Allowable loads labeled "Floor" and "Roof" represent gravity loads.

TOP MOUNT HEAVY BEAM HANGERS (TFHBH)

PRODUCT FEATURES:

Top Flange Header Beam Hangers (TFHBH) are heavy header-to-beam connectors used for supporting and transferring high loads from the LVL, LSL and PSL beams to the header.

MATERIAL:

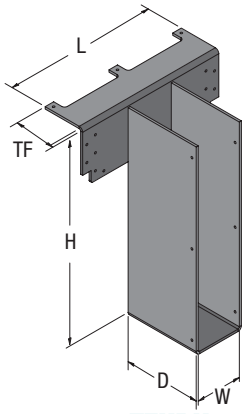
TFHBH – 7 Gauge

COATING:

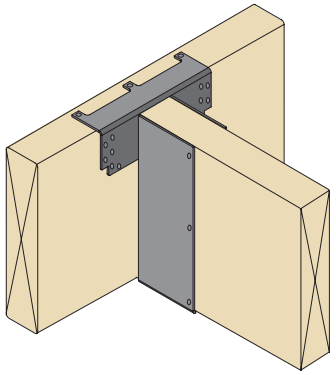
Spray Painted Primer (gray)

CODE COMPLIANCE:

Call QT for code approval information.



TFHBH



ALLOWABLE LOADS FOR TOP MOUNT HEAVY BEAM HANGERS (LB)*

Part No.	Hanger Dimensions (in.)					Fastener Schedule				Allowable loads (lb)*	
	Height, H	Width, W	Depth, D	Length, L	Top Flange TF	Header		Joist		SP (0.55) / DF-L (0.50)	
						Qty	Type	Qty	Type	Gravity (C_D = 1.0)	Uplift (C_D = 1.6)
TFHBH3512	12	3-5/8	6	12	3-1/8	15	10d x 3-1/2	6	16d	10,545	1,490
TFHBH3514	14										
TFHBH3516	16										
TFHBH3518	18										
TFHBH3520	20										
TFHBH3595	9-1/2										

*For other sizes, contact QT. Allowable loads per NDS nail calculations, call QT for code approval information.

U HANGERS AND INVERTED FLANGE U HANGERS (ULU, UL, ULP, ULP-IF, UM, UH, UH-IF, UMH, UHH & UHD SERIES)

PRODUCT FEATURES:

U-Hanger and Inverted Flange (IF) U-Hanger Series are face mount joist hangers used to resist gravity loads and uplift loads due to wind in one-, two- and three-ply joist assemblies in light-frame wood construction. These are used as wood framing connectors in accordance with IBC Section 2304.10.4 and IRC Section R301.1.3.

MATERIAL:

ULU Series* - 20 Gauge
UL Series - 20 Gauge
ULP & ULP-IF Series - 18 Gauge
UM Series - 16 Gauge
UH & UH-IF Series - 14 Gauge
UMH Series* - 16 Gauge
UHH Series* - 14 Gauge
UHD Series* - 12 Gauge

COATING:

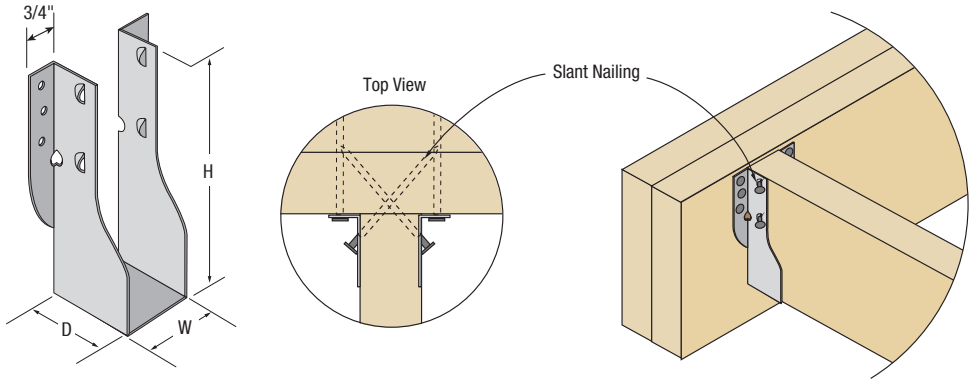
Galvanized (G185)

INSTALLATION:

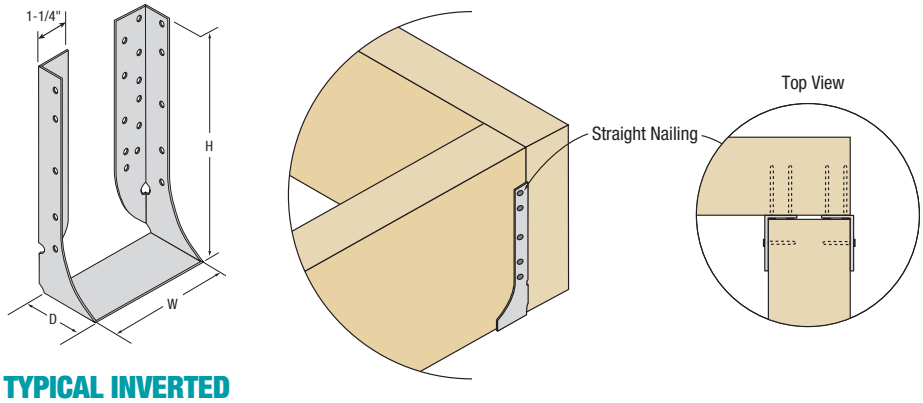
- Use all specified fasteners in schedule to achieve values indicated.
- All U-Hangers have slant nailing. These must be used to achieve published load values. The nails must be driven at an angle (approx. 41º) in the joist and into the header.
- For all Hangers, use 16d common nails (0.162 x3-1/2") for hanger-to-header attachment.
- For all Inverted Flange (IF) Hangers, use 10d common nails (0.148 x 3") for hanger-to-joist attachment.
- Hangers are not allowed to be modified.
- Hangers are not designed for welded applications.

CODE COMPLIANCE:

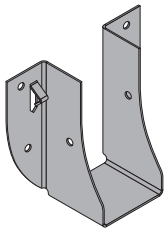
TER 1811-03; FL 3557
*Call QT for code approval information.



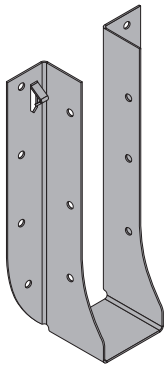
TYPICAL U HANGERS



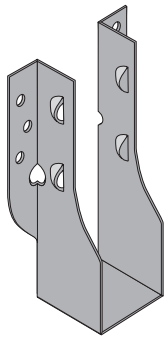
TYPICAL INVERTED FLANGE (IF) U HANGERS



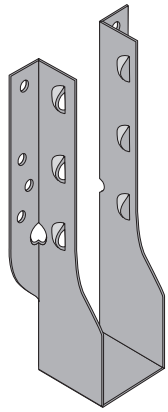
ULU24



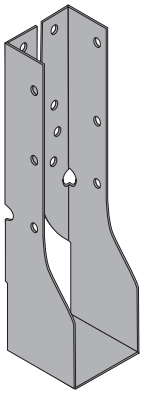
ULU28



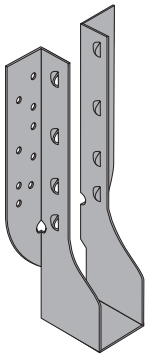
UL



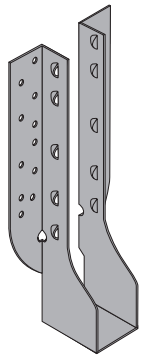
ULP



ULP-IF



UM



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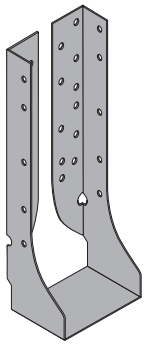


UH-IF

NOTE: Similar for 2-ply & 3-ply joist hangers

ALLOWABLE LOADS FOR UL, ULP, ULP-IF, UM, UH & UH-IF SERIES HANGERS (LB)[1,2]

Joist Size			Part No.			QUICKTIE PART ATTRIBUTES															
							Hanger Dimensions (in.)			Fasteners				SP/DF-L (SG = 0.50)				HF/SPF (SG = 0.42)			
				Reference No.[4]		Steel Thick.				Header		Joist		Floor	Roof	Roof	Uplift	Floor	Roof	Roof	Uplift
			QT	Simpson® Hardware (SH)	MiTek® Hardware (MH)		Width, W	Height, H	Depth, D	Qty	Size	Qty	Size	1.0	1.15	1.25	1.6	1.0	1.15	1.25	1.6
2 x 4	2x4	1-ply	ULU24	LU24	JL24	20 ga	1-9/16	3-1/8	1-1/2	4	16d	2	10d x 1-1/2	555	635	690	370	475	545	595	320
		1-ply	ULP24	LUS24, U24	JUS24, SUH24	18 ga	1-5/8	3-1/8	1-3/4	6	10d	2	10d or 10dx1-1/2	500	500	500	380	430	430	430	325
										6	16d	2		805	805	805	380	580	580	580	325
		2-ply	ULP24-2	LUS24-2, U24-2	JUS24-2, SUH24-2	18 ga	3-1/8	3-1/8	1-3/4	6	10d	2	10d or 10dx1-1/2	500	500	500	380	430	430	430	325
										6	16d	2		805	805	805	380	580	580	580	325
2 x 6	2x6	1-ply	ULU26	LU26	JL26	20 ga	1-9/16	4-3/4	1-1/2	6	16d	4	10d x 1-1/2	830	955	1,040	740	715	820	895	640
		1-ply	UL26	LUS26	JUS26	20 ga	1-5/8	5-3/8	1-3/4	6	16d	4	16d	1,215	1,215	1,215	510	965	965	965	440
		1-ply	ULP26	MUS26	MUS26	18 ga	1-5/8	5-3/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		1-ply (IF)	ULP-IF26	LUC26Z	JL26IF-TZ	18 ga	1-5/8	5-3/8	1-3/4	6	16d	4	10d	830	955	1,040	745	715	825	895	640
		Rough	ULP26R	LU26R-18	-	18 ga	2	5-1/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		1-ply	UM26	U26	SUH26	16 ga	1-5/8	5-3/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		Rough	UM26R	U26R	SUH26R	16 ga	2	5-3/16	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		1-ply	UH26	HU26	HD26	14 ga	1-5/8	5-3/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,155	1,205	1,205	1,205	1,005
	(2) 2x6	2-ply	UL26-2	-	-	20 ga	3-1/8	4-5/8	1-3/4	6	16d	4	16d	1,215	1,215	1,215	510	965	965	965	440
		2-ply	ULP26-2	LUS26-2, LUS26-2Z	JUS26-2, JUS26-2TZ	18 ga	3-1/8	4-5/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		2-ply (IF)	ULP-IF26-2	-	-	18 ga	3-1/8	4-5/8	1-3/4	6	16d	4	10d	830	955	1,040	745	715	825	895	640
		2-ply	UM26-2	U26-2	SUH26-2	16 ga	3-1/8	4-5/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		2-ply	UH26-2	HUS26-2, HU26-2	HUS26-2, HD26-2	14 ga	3-1/8	4-5/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,155	1,205	1,205	1,205	1,005
		2-ply (IF)	UH-IF26-2	HUSC26-2	HUS26-2IF	14 ga	3-1/8	4-5/8	2-1/4	6	16d	6	10d	865	995	1,080	1,170	750	860	935	1,015
	(3) 2x6	3-ply	UL26-3	-	-	20 ga	4-5/8	3-7/8	1-3/4	6	16d	4	16d	1,215	1,215	1,215	510	965	965	965	440
		3-ply	ULP26-3	LUS26-3	JUS26-3	18 ga	4-5/8	3-7/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		3-ply (IF)	ULP-IF26-3	-	-	18 ga	4-5/8	3-7/8	1-3/4	6	16d	4	10d	830	955	1,040	745	715	825	895	640
		3-ply	UM26-3	U26-3	SUH26-3	16 ga	4-5/8	3-7/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		3-ply	UH26-3	HU26-3	HD26-3	14 ga	4-5/8	3-7/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,155	1,205	1,205	1,205	1,005
		3-ply (IF)	UH-IF26-3	HUC26-3	HD26-3IF	14 ga	4-5/8	3-7/8	2-1/4	6	16d	6	10d	865	995	1,080	1,170	750	860	935	1,015
2 x 8	2x8	1-ply	ULU28	LU28	JL28	20 ga	1-9/16	6-3/8	1-1/2	8	16d	6	10d x 1-1/2	1,105	1,275	1,385	1,115	950	1,095	1,190	955
		1-ply	UL28	LUS28, LUS28Z	JUS28, JUS28-TZ	20 ga	1-5/8	7-1/8	1-3/4	8	16d	6	16d	1,695	1,855	1,895	910	1,400	1,455	1,490	785
		1-ply	ULP28	MUS28	MUS28	18 ga	1-5/8	7-1/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		1-ply (IF)	ULP-IF28	-	JL28IF-TZ	18 ga	1-5/8	7-1/8	1-3/4	8	16d	6	10d	1,110	1,275	1,385	930	955	1,100	1,195	805
		Rough	ULP28R	LU28R-18	-	18 ga	2	6-7/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		1-ply	UM28	-	SUH28	16 ga	1-5/8	7-1/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		Rough	UM28R	U26R	SUH28R	16 ga	2	6-15/16	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		1-ply	UH28	HU28	HD28	14 ga	1-5/8	7-1/8	2-1/4	12	16d	6	16d	1,865	1,960	1,985	1,155	1,495	1,525	1,550	1,005
	(2) 2x8	2-ply	UL28-2	-	-	20 ga	3-1/8	6-3/8	1-3/4	8	16d	6	16d	1,695	1,855	1,895	910	1,400	1,455	1,490	785
		2-ply	ULP28-2	LUS28-2, LUS28-2Z	JUS28-2, JUS28-2TZ	18 ga	3-1/8	6-3/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		2-ply (IF)	ULP-IF28-2	-	-	18 ga	3-1/8	6-3/8	1-3/4	8	16d	6	10d	1,110	1,275	1,385	930	955	1,100	1,195	805
		2-ply	UM28-2	-	SUH28-2	16 ga	3-1/8	6-3/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		2-ply	UH28-2	HUS28-2	HUS28-2	14 ga	3-1/8	6-3/8	2-1/4	12	16d	6	16d	1,865	1,960	1,985	1,155	1,495	1,525	1,550	1,005
		2-ply (IF)	UH-IF28-2	HUSC28-2, HUC28-2, HUC28-2Z	HUS28-2IF, HUS28-2IFTZ, HD28-2IF, HD28-2IFTZ	14ga	3-1/8	6-3/8	2-1/4	12	16d	6	10d	1,635	1,775	1,830	1,170	1,345	1,470	1,555	1,015
	(3) 2x8	3-ply	UL28-3	-	-	20 ga	4-5/8	5-5/8	1-3/4	8	16d	6	16d	1,695	1,855	1,895	910	1,400	1,455	1,490	785
		3-ply	ULP28-3	LUS28-3, LUS28-3Z	JUS28-3, JUS28-3TZ	18 ga	4-5/8	5-5/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		3-ply (IF)	ULP-IF28-3	-	-	18 ga	4-5/8	5-5/8	1-3/4	8	16d	6	10d	1,110	1,275	1,385	930	955	1,100	1,195	805
		3-ply	UM28-3	-	-	16 ga	4-5/8	5-5/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		3-ply	UH28-3	-	HD28-3	14 ga	4-5/8	5-5/8	2-1/4	12	16d	6	16d	1,865	1,960	1,985	1,155	1,495	1,525	1,550	1,005
		3-ply (IF)	UH-IF28-3	-	HD28-3IF	14 ga	4-5/8	5-5/8	2-1/4	12	16d	6	10d	1,635	1,775	1,830	1,170	1,345	1,470	1,555	1,015

Continued on next page.

NOTES:

1. Nails designated as 16d shall be 16d common nails (0.162" x 3.5", F_{yb} = 90,000 psi), 10d shall be 10d common nails (0.148" x 3", F_{yb} = 90,000 psi) and 10d x 1-1/2 shall be 0.148" x 1.5", F_{yb} = 90,000 psi.
2. Allowable loads are provided for load duration factor (C_D) of 1.0, 1.15, 1.25 and 1.6.
3. Allowable loads labeled "Floor" and "Roof" represent gravity loads.
4. These Reference Numbers above are for the purpose of enabling our customers to identify the QuickTie™ alternative to specified product names, but the attributes of the products references (particularly load values) may differ from the QuickTie™ part. Please note that product comparison via Reference Numbers is for general application comparison only. Reference Numbers should not be used as an apples-to-apples substitution tool. Customers are solely responsible for comparing specific load values, fastener schedules, anchoring requirements, material specifications, and other factors when determining the suitability of use of any particular product. QuickTie™ makes no claim, stated or implied, of suitability for purpose or qualification for usage of our products that may be substituted for a specified product. Any specification, submittal, or change to a specified product should be approved in writing by the designer or Engineer of Record (EOR). MiTek® and Simpson Strong-Tie® are registered trademarks of their respective companies, with which QuickTie™ is unaffiliated, and neither of whom endorse or approve use of their product names in this catalog as "reference numbers".

ALLOWABLE LOADS FOR UL, ULP, ULP-IF, UM, UH & UH-IF SERIES HANGERS (LB)[1,2,3]

Joist Size			Part No.			Steel Thick.	QUICKTIE PART ATTRIBUTES													
							Hanger Dimensions (in.)			Fasteners				SP/DF-L (SG = 0.50)				HF/SPF (SG = 0.42)			
			QT	Reference No.[4]			Width, W	Height, H	Depth, D	Header		Joist		Floor	Roof	Roof	Uplift	Floor	Roof	Roof	Uplift
				Simpson® Hardware (SH)	MiTek® Hardware (MH)					Qty	Size	Qty	Size	1.0	1.15	1.25	1.6	1.0	1.15	1.25	1.6
2 x 10	2x10	1-ply	UL210	LU210, LUS210, U210	JL210, JUS210, SUH210, SUH210-TZ	20 ga	1-5/8	9-1/8	1-3/4	10	16d	8	16d	2,175	2,495	2,575	1,315	1,835	1,940	2,010	1,130
		1-ply	ULP210	-	-	18 ga	1-5/8	9-1/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200
		1-ply (IF)	ULP-IF210	LUC210Z	JL210IF-TZ	18 ga	1-5/8	9-1/8	1-3/4	10	16d	8	10d	1,385	1,590	1,730	1,115	1,195	1,375	1,490	965
		Rough	ULP210R	LU210R-18	-	18 ga	2	8-7/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200
		Rough	UM210R	U210R	SUH210R	16 ga	2	8-15/16	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925
		1-ply	UH210	HU210	HD210	14 ga	1-5/8	9-1/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,890	1,365
	(2) 2x10	2-ply	UL210-2	-	-	20 ga	3-1/8	8-3/8	1-3/4	10	16d	8	16d	2,175	2,495	2,575	1,315	1,835	1,940	2,010	1,130
		2-ply	ULP210-2	LUS210-2, LUS210-2Z	JUS210-2, JUS210-2TZ	18 ga	3-1/8	8-3/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200
		2-ply (IF)	ULP-IF210-2	-	-	18 ga	3-1/8	8-3/8	1-3/4	10	16d	8	10d	1,385	1,590	1,730	1,115	1,195	1,375	1,490	965
		2-ply	UM210-2	U210-2	SUH210-2	16 ga	3-1/8	8-3/8	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925
		2-ply	UH210-2	HUS210-2	HUS210-2	14 ga	3-1/8	8-3/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,890	1,365
		2-ply (IF)	UH-IF210-2	HUSC210-2Z, HUC210-2, HUC210-2Z	HUS210-2IFTZ, HD210-2,IF HD210-2IFTZ	14 ga	3-1/8	8-3/8	2-1/4	18	16d	8	10d	2,400	2,555	2,585	1,560	1,945	2,085	2,180	1,355
	(3) 2x10	3-ply	UL210-3	-	-	20 ga	4-5/8	7-5/8	1-3/4	10	16d	8	16d	2,175	2,495	2,575	1,315	1,835	1,940	2,010	1,130
		3-ply	ULP210-3	LUS210-3, LUS210-3Z	JUS210-3, JUS210-3TZ	18 ga	4-5/8	7-5/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200
		3-ply (IF)	ULP-IF210-3	-	-	18 ga	4-5/8	7-5/8	1-3/4	10	16d	8	10d	1,385	1,590	1,730	1,115	1,195	1,375	1,490	965
		3-ply	UM210-3	U210-3	SUH210-3	16 ga	4-5/8	7-5/8	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925
		3-ply	UH210-3	HU210-3, HU210-3Z	HD210-3	14 ga	4-5/8	7-5/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,890	1,365
		3-ply (IF)	UH-IF210-3	HUC210-3, HUC210-3Z	HD210-3IF, HD210-3IFTZ	14 ga	4-5/8	7-5/8	2-1/4	18	16d	8	10d	2,400	2,555	2,585	1,560	1,945	2,085	2,180	1,355
2 x 12	2x12	1-ply	UL212	-	-	20 ga	1-5/8	10-3/16	1-3/4	10	16d	10	16d	1,570	1,570	1,570	1,715	1,265	1,265	1,265	1,475
		1-ply	ULP212	-	-	18 ga	1-5/8	10-3/16	1-3/4	10	16d	10	16d	2,265	2,265	2,265	1,730	1,825	1,825	1,825	1,510
		1-ply	UH212	HU212	HD212	14 ga	1-5/8	10-3/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720
	(2) 2x12	2-ply	UL212-2	-	-	20 ga	3-1/8	9-7/16	1-3/4	10	16d	10	16d	1,570	1,570	1,570	1,715	1,265	1,265	1,265	1,475
		2-ply	ULP212-2	-	-	18 ga	3-1/8	9-7/16	1-3/4	10	16d	10	16d	2,265	2,265	2,265	1,730	1,825	1,825	1,825	1,510
		2-ply	UH212-2	HUS212-2	HUS212-2	14 ga	3-1/8	9-7/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720
		2-ply	UH-IF212-2	HUSC212-2, HUC212-2	HUS212-2IF, HD212-2IF	14 ga	3-1/8	9-7/16	2-1/4	22	16d	10	10d	3,170	3,335	3,335	1,950	2,540	2,695	2,800	1,690
	(3) 2x12	3-ply	UL212-3	-	-	20 ga	4-5/8	8-11/16	1-3/4	10	16d	10	16d	1,570	1,570	1,570	1,715	1,265	1,265	1,265	1,475
		3-ply	ULP212-3	-	-	18 ga	4-5/8	8-11/16	1-3/4	10	16d	10	16d	2,265	2,265	2,265	1,730	1,825	1,825	1,825	1,510
		3-ply	UH212-3	HU212-3	HD212-3	14 ga	4-5/8	8-11/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720
		3-ply	UH-IF212-3	HUC212-3	HD212-3IF	14 ga	4-5/8	8-11/16	2-1/4	22	16d	10	10d	3,170	3,335	3,335	1,950	2,540	2,695	2,800	1,690

Continued on next page.

NOTES:

1. Nails designated as 16d shall be 16d common nails (0.162" x 3.5", F_{yb} = 90,000 psi) and 10d shall be 10d common nails (0.148" x 3", F_{yb} = 90,000 psi).
2. Allowable loads are provided for load duration factor (C_D) of 1.0, 1.15, 1.25 and 1.6.
3. Allowable loads labeled "Floor" and "Roof" represent gravity loads.
4. These Reference Numbers above are for the purpose of enabling our customers to identify the QuickTie™ alternative to specified product names, but the attributes of the products references (particularly load values) may differ from the QuickTie™ part. Please note that product comparison via Reference Numbers is for general application comparison only. Reference Numbers should not be used as an apples-to-apples substitution tool. Customers are solely responsible for comparing specific load values, fastener schedules, anchoring requirements, material specifications, and other factors when determining the suitability of use of any particular product. QuickTie™ makes no claim, stated or implied, of suitability for purpose or qualification for usage of our products that may be substituted for a specified product. Any specification, submittal, or change to a specified product should be approved in writing by the designer or Engineer of Record (EOR). MiTek® and Simpson Strong-Tie® are registered trademarks of their respective companies, with which QuickTie™ is unaffiliated, and neither of whom endorse or approve use of their product names in this catalog as "reference numbers".

ALLOWABLE LOADS FOR UL, ULP, ULP-IF, UM, UH & UH-IF SERIES HANGERS (LB)[1,2,3]

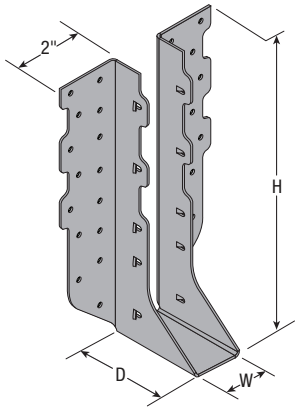
Joist Size			Part No.			QUICKTIE PART ATTRIBUTES															
							Hanger Dimensions (in.)			Fasteners				SP/DF-L (SG = 0.50)				HF/SPF (SG = 0.42)			
										Header		Joist									
			QT	Reference No.[4] Simpson® Hardware (SH)	Reference No.[4] MiTek® Hardware (MH)	Steel Thick.	Width, W	Height, H	Depth, D	Qty	Size	Qty	Size	Floor 1.0	Roof 1.15	Roof 1.25	Uplift 1.6	Floor 1.0	Roof 1.15	Roof 1.25	Uplift 1.6
3 x	3x6	1-ply	ULP36	LUS36, LUS36Z	JUS36, JUS36-TZ	18 ga	2-9/16	4-7/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		1-ply	UM36	U36	SUH36	16 ga	2-9/16	4-7/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		1-ply	UH36	HU36	HD36	14 ga	2-9/16	4-7/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,155	1,205	1,205	1,205	1,005
		1-ply (IF)	UH-IF36	HUC36	HD36IF	14 ga	2-9/16	4-7/8	2-1/4	6	16d	6	10d	865	995	1,080	1,170	750	860	935	1,015
	3x8	1-ply	ULP38	--	JUS38	18 ga	2-9/16	6-5/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		1-ply	UM38	-	-	16 ga	2-9/16	6-5/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		1-ply	UH38	HU38	HD38	14 ga	2-9/16	6-5/8	2-1/4	12	16d	6	16d	1,865	1,960	1,985	1,155	1,495	1,525	1,550	1,005
		1-ply (IF)	UH-IF38	HUC38	HD38IF	14 ga	2-9/16	6-5/8	2-1/4	12	16d	6	10d	1,635	1,775	1,830	1,170	1,345	1,470	1,555	1,015
	3x10	1-ply	ULP310	LUS310	JUS310	18 ga	2-9/16	8-5/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200
		1-ply	UM310	U310	SUH310	16 ga	2-9/16	8-5/8	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925
		1-ply	UH310	HU310	HD310	14 ga	2-9/16	8-5/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,990	1,365
		1-ply (IF)	UH-IF310	HUC310	HD310IF	14 ga	2-9/16	8-5/8	2-1/4	18	16d	8	10d	2,400	2,555	2,585	1,560	1,945	2,085	2,180	1,355
	3x12	1-ply	ULP312	-	-	18 ga	2-9/16	9-11/16	1-3/4	10	16d	10	16d	2,265	2,265	2,265	1,730	1,825	1,825	1,825	1,510
		1-ply	UH312	HU312	HD312	14 ga	2-9/16	9-11/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720
		1-ply (IF)	UH-IF312	HUC312	HD312IF	14 ga	2-9/16	9-11/16	2-1/4	22	16d	10	10d	3,170	3,335	3,335	1,950	2,540	2,695	2,800	1,690
4 x	4x6	1-ply	ULP46	LUS46, LUS46Z	JUS46, JUS46-TZ	18 ga	3-9/16	4-3/8	1-3/4	6	16d	4	16d	1,230	1,415	1,435	670	1,065	1,110	1,110	580
		1-ply	UM46	U46	SUH46	16 ga	3-9/16	4-3/8	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		Rough	UM46R	U46R	SUH46R	16 ga	4	4-3/16	2-1/4	6	16d	6	16d	1,445	1,540	1,540	600	1,245	1,245	1,245	525
		1-ply	UH46	HUS46	HUS46	14 ga	3-9/16	4-3/8	2-1/4	6	16d	6	16d	1,465	1,540	1,540	1,155	1,205	1,205	1,205	1,005
		1-ply (IF)	UH-IF46	HUSC46	HUS46IF	14 ga	3-9/16	4-3/8	2-1/4	6	16d	6	10d	865	995	1,080	1,170	750	860	935	1,015
	4x8	1-ply	ULP48	LUS48, LUS48Z	JUS48, JUS48-TZ	18 ga	3-9/16	6-1/8	1-3/4	8	16d	6	16d	1,710	1,955	2,005	1,025	1,450	1,525	1,560	890
		1-ply	UM48	-	-	16 ga	3-9/16	6-1/8	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		Rough	UM48R	-	-	16 ga	4	5-15/16	2-1/4	12	16d	6	16d	1,885	1,930	1,930	600	1,625	1,625	1,625	525
		1-ply	UH48	HUS48	HUS48	14 ga	3-9/16	6-1/8	2-1/4	12	16d	6	16d	1,865	1,960	1,985	1,155	1,495	1,525	1550	1,005
		1-ply (IF)	UH-IF48	HUSC48	HUS48IF	14 ga	3-9/16	6-1/8	2-1/4	12	16d	6	10d	1,635	1,775	1,830	1,170	1,345	1,470	1,555	1,015
	4x10	1-ply	ULP410	LUS410, LUS410Z	JUS410, JUS410-TZ	18 ga	3-9/16	8-1/8	1-3/4	10	16d	8	16d	2,190	2,495	2,575	1,375	1,835	1,940	2,010	1,200
		1-ply	UM410	U410	SUH410	16 ga	3-9/16	8-1/8	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925
		Rough	UM410R	U410R	SUH410R	16 ga	4	7-15/16	2-1/4	18	16d	8	16d	2,320	2,320	2,320	1,065	2,005	2,005	2,005	925
		1-ply	UH410	HUS410	HUS410	14 ga	3-9/16	8-1/8	2-1/4	18	16d	8	16d	2,265	2,375	2,425	1,565	1,780	1,850	1,890	1,365
		1-ply (IF)	UH-IF410	HUSC410	HUS410IF	14 ga	3-9/16	8-1/8	2-1/4	18	16d	8	10d	2,400	2,555	2,585	1,560	1,945	2,085	2,180	1,355
	4x12	1-ply	ULP412	-	-	18 ga	3-9/16	9-3/16	1-3/4	10	16d	10	16d	2,265	2,265	1,730	1,730	1,825	1,825	1,825	1,510
		Rough	ULP412R	-	-	18 ga	4	9	1-3/4	10	16d	10	16d	2,265	2,265	1,730	1,730	1,825	1,825	1,825	1,510
		1-ply	UH412	HUS412	HUS412	14 ga	3-9/16	9-3/16	2-1/4	22	16d	10	16d	3,060	3,210	3,310	1,975	2,355	2,490	2,575	1,720
		1-ply (IF)	UH-IF412	HUSC412	HUS412IF	14 ga	3-9/16	9-3/16	2-1/4	22	16d	10	10d	3,170	3,335	3,335	1,950	2,540	2,695	2,800	1,690

Continued on next page.

NOTES:

1. Nails designated as 16d shall be 16d common nails (0.162" x 3.5", F_{yb} = 90,000 psi) and 10d shall be 10d common nails (0.148" x 3", F_{yb} = 90,000 psi).
2. Allowable loads are provided for load duration factor (C_D) of 1.0, 1.15, 1.25 and 1.6.
3. Allowable loads labeled "Floor" and "Roof" represent gravity loads.
4. These Reference Numbers above are for the purpose of enabling our customers to identify the QuickTie™ alternative to specified product names, but the attributes of the products references (particularly load values) may differ from the QuickTie™ part. Please note that product comparison via Reference Numbers is for general application comparison only. Reference Numbers should not be used as an apples-to-apples substitution tool. Customers are solely responsible for comparing specific load values, fastener schedules, anchoring requirements, material specifications, and other factors when determining the suitability of use of any particular product. QuickTie™ makes no claim, stated or implied, of suitability for purpose or qualification for usage of our products that may be substituted for a specified product. Any specification, submittal, or change to a specified product should be approved in writing by the designer or Engineer of Record (EOR). MiTek® and Simpson Strong-Tie® are registered trademarks of their respective companies, with which QuickTie™ is unaffiliated, and neither of whom endorse or approve use of their product names in this catalog as "reference numbers".

Face Mount Joist/Truss Hangers



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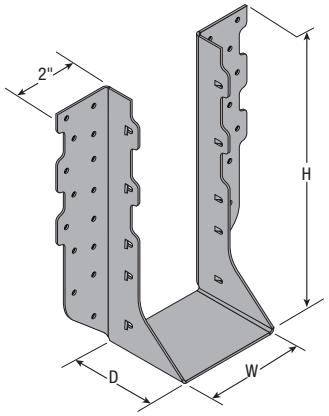

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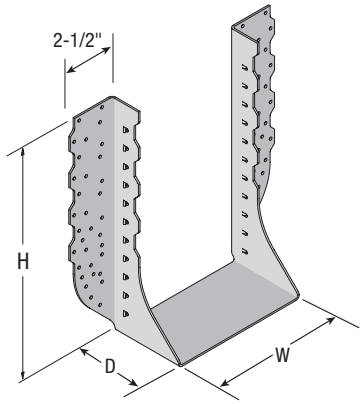

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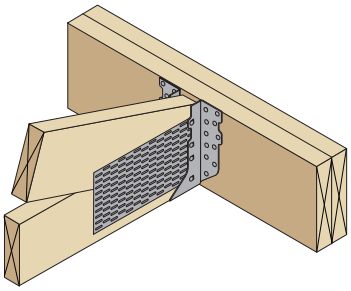

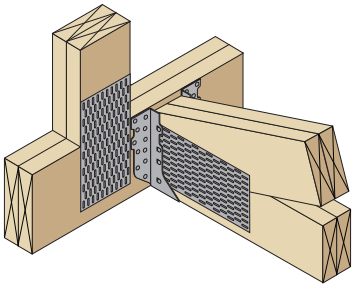

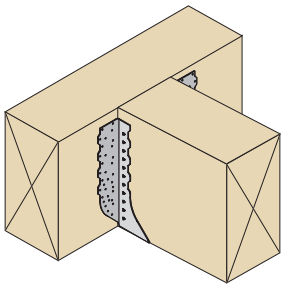

ALLOWABLE LOADS FOR UMH & UHH SERIES HANGERS (LB)[1,2,3]

Joist Size			Part No. *			QUICKTIE PART ATTRIBUTES																	
							Dimensions (in.)			Fasteners				SP/DF-L (SG = 0.50)					HF/SPF (SG = 0.42)				
				Reference No.[4]		Steel Thick.				Header		Joist											
			QT	Simpson® Hardware (SH)	MiTek® Hardware (MH)		Width, W	Height, H	Depth, D	Qty	Size	Qty	Size	Floor 1.0	Roof 1.15	Roof 1.25	Roof 1.6	Uplift 1.6	Floor 1.0	Roof 1.15	Roof 1.25	Roof 1.6	Uplift 1.6
UMH (16 ga)	2x6	1-ply	UMH26	HUS26, HUS26Z	HUS26, HUS26-TZ	16 ga	1-5/8	5-3/8	4	14	16d	6	16d	2,960	3,280	3,280	3,280	1,320	2,350	2,660	2,780	2,780	1,150
	2x8	1-ply	UMH28	HUS28, HUS28Z	HUS28, HUS28-TZ	16 ga	1-5/8	7-1/8	4	20	16d	8	16d	4,095	4,095	4,095	4,095	1,760	3,520	3,520	3,520	3,520	1,480
	2x10	1-ply	UMH210	HUS210, HUS210Z	HUS210, HUS210-TZ	16 ga	1-5/8	9-1/8	4	30	16d	10	16d	5,395	5,780	5,830	5,830	2,635	2,330	2,455	2,535	2,825	2,220
UHH (14 ga)	(2) 2x6	2-ply	UHH26-2	HHUS26-2, HHUS26-2Z	THD26-2	14 ga	3-1/8	4-5/8	4	14	16d	6	16d	2,830	3,190	3,415	4,250	1,320	2,435	2,745	2,935	3,655	1,135
	(2) 2x8	2-ply	UHH28-2	HHUS28-2, HHUS28-2Z	THD28-2, THD28-2TZ	14 ga	3-1/8	6-3/8	4	20	16d	8	16d	4,265	4,810	5,155	5,980	1,760	3,670	4,135	4,435	5,145	1,515
	(2) 2x10	2-ply	UHH210-2	HHUS210-2, HHUS210-2Z	THD210-2, THD210-2TZ	14 ga	3-1/8	8-3/8	4	30	16d	10	16d	5,705	6,435	6,485	6,485	3,550	4,905	5,340	5,060	5,190	3,335
	(3) 2x10	3-ply	UHH210-3	HHUS210-3	THD210-3	14 ga	4-5/8	7-5/8	4	30	16d	10	16d	5,630	6,375	6,485	6,485	3,405	4,840	5,485	5,575	5,575	2,930
	(4) 2x10	4-ply	UHH210-4	HHUS210-4	THD210-4	14 ga	6-1/8	8-7/8	4	30	16d	10	16d	5,630	6,375	6,485	6,485	3,405	4,840	5,485	5,575	5,575	2,930
	4x6	1-ply	UHH46	HHUS46, HHUS46Z	THD46, THD46-TZ	14 ga	3-5/8	4-3/8	4	14	16d	6	16d	2,830	3,190	3,415	4,250	1,320	2,435	2,745	2,935	3,655	1,135
	4x8	1-ply	UHH48	HHUS48, HHUS48Z	THD48, THD48-TZ	14 ga	3-5/8	6-1/8	4	22	16d	8	16d	4,265	4,810	5,155	5,980	1,760	3,670	4,135	4,435	5,145	1,515
	4x10	1-ply	UHH410	HHUS410, HHUS410Z	THD410, THD410-TZ	14 ga	3-5/8	8-1/8	4	30	16d	10	16d	5,705	6,435	6,485	6,485	3,550	4,905	5,535	5,575	5,575	3,265
	6x10	1-ply SCL	UHH610	HHUS5.50/10	THD610	14 ga	5-1/2	9	4	30	16d	10	16d	5,635	6,380	6,880	--	3,565	4,845	5,490	5,915	-	-
	7x10	1-ply SCL/Glulam	UHH7210	HHUS7.25/10	THD7210	14 ga	7-1/4	9	4	30	16d	10	16d	5,635	6,380	6,880	--	3,565	4,845	5,490	5,915	-	-

Continued on next page.

NOTES:

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*Allowable loads per NDS calculations, call QT for code approval information.

ALLOWABLE LOADS FOR UH SERIES HANGERS (LB)[1,2,3]

	Joist Size		Part No.*			QUICKTIE PART ATTRIBUTES																
							Dimensions			Fasteners				SP/DF-L (SG = 0.50)					HF/SPF (SG = 0.42)				
			QT	Reference No.[4]		Steel Thick.	Width, W (in.)	Height, H (in.)	Depth, D (in.)	Header		Joist		Floor	Roof	Roof	Roof	Uplift	Floor	Roof	Roof	Roof	Uplift
				Simpson® Hardware (SH)	MiTek® Hardware (MH)					Qty	Size	Qty	Size	1.0	1.15	1.25	1.6	1.6	1.0	1.15	1.25	1.6	1.6
UHD (12 ga)	2x6	1-ply	UHD26	HGUS26	THDH26	12 ga	1-5/8	5-3/8	4	20	16d	8	16d	4,690	5,220	5,390	5,390	875	3,225	3,610	3,870	3,985	780
	(2) 2x6	2-ply	UHD26-2	HGUS26-2	THDH26-2	12 ga	3-1/8	4-5/8	4	20	16d	8	16d	4,340	4,850	5,170	5,575	2,155	3,730	4,170	4,445	4,795	1,855
	(3) 2x6	3-ply	UHD26-3	HGUS26-3	THDH26-3	12 ga	4-5/8	3-7/8	4	20	16d	8	16d	4,340	4,850	5,170	5,575	2,155	3,730	4,170	4,445	4,795	1,855
	(4) 2x6	4-ply	UHD26-4	HGUS26-4	THDH26-4	12 ga	6-9/16	5-7/16	4	20	16d	8	16d	4,340	4,850	5,170	5,575	2,155	3,730	4,170	4,445	4,795	1,855
	2x8	1-ply	UHD28	HGUS28	THDH28	12 ga	1-5/8	7-1/8	4	36	16d	12	16d	7,275	7,275	7,275	7,275	1,650	3,670	3,820	3,915	4,250	1,325
	(2) 2x8	2-ply	UHD28-2	HGUS28-2	THDH28-2	12 ga	3-1/8	6-3/8	4	36	16d	12	16d	7,460	7,460	7,460	7,460	3,235	6,415	6,415	6,415	6,415	2,780
	(3) 2x8	3-ply	UHD28-3	HGUS28-3	THDH28-3	12 ga	4-5/8	5-5/8	4	36	16d	12	16d	7,460	7,460	7,460	7,460	3,235	6,415	6,415	6,415	6,415	2,780
	(4) 2x8	4-ply	UHD28-4	HGUS28-4	THDH28-4	12 ga	6-9/16	7-3/16	4	36	16d	12	16d	7,460	7,460	7,460	7,460	3,235	6,415	6,415	6,415	6,415	2,780
	2x10	1-ply	UHD210	HGUS210	THDH210	12 ga	1-5/8	9-1/8	4	46	16d	16	16d	9,100	9,100	9,100	9,100	2,090	6,340	6,730	6,730	6,730	1,545
	(2) 2x10	2-ply	UHD210-2	HGUS210-2	THDH210-2	12 ga	3-1/8	8-3/8	4	46	16d	16	16d	9,100	9,100	9,100	9,100	4,095	7,460	7,825	7,825	7,825	3,520
	(3) 2x10	3-ply	UHD210-3	HGUS210-3	THDH210-3	12 ga	4-5/8	7-5/8	4	46	16d	16	16d	10,125	10,125	10,125	10,125	5,695	8,190	8,190	8,190	8,190	4,900
	(4) 2x10	4-ply	UHD210-4	HGUS210-4	-	12 ga	6-9/16	9-3/16	4	46	16d	16	16d	10,125	10,125	10,125	10,125	5,695	8,710	8,710	8,710	8,710	4,900
	(3) 2x12	3-ply	UHD212-3	HGUS212-3	THDH212-3	12 ga	4-15/16	8-1/2	4	64	16d	20	16d	9,045	9,045	9,045	9,045	5,695	7,780	7,780	7,780	7,780	4,900
	(4) 2x12	4-ply	UHD212-4	HGUS212-4	-	12 ga	6-9/16	10-5/8	4	56	16d	20	16d	9,045	9,045	9,045	9,045	5,695	7,780	7,780	7,780	7,780	4,900
	(3) 2x14	3-ply	UHD214-3	HGUS214-3	THDH214-3	12 ga	4-15/16	12-3/4	4	66	16d	22	16d	10,125	10,125	10,125	10,125	5,695	8,190	8,190	8,190	8,190	4,900
	(4) 2x14	4-ply	UHD214-4	HGUS214-4	-	12 ga	6-9/16	12-5/8	4	66	16d	22	16d	10,125	10,125	10,125	10,125	5,695	8,710	8,710	8,710	8,710	4,900
	3x10	1-ply Glulam	UHD3210	HGUS3.25/10	THDH3210	12 ga	3-1/4/4	8-1/4	4	46	16d	16	16d	9,100	9,100	9,100	-	4,095	7,825	7,825	7,825	-	-
	3x12	1-ply Glulam	UHD3212	HGUS3.25/12	THDH3212	12 ga	3-1/4	9-3/8	4	56	16d	20	16d	9,400	9,400	9,400	-	5,040	8,085	8,085	8,085	-	-
	4x6	1-ply	UHD46	HGUS46	THD46	12 ga	3-5/8	4-3/8	4	20	16d	8	16d	4,340	4,850	5,170	5,575	2,155	3,730	4,170	4,445	4,795	1,855
	4x8	1-ply	UHD48	HGUS48	THDH48	12 ga	3-5/8	6-1/8	4	36	16d	12	16d	7,460	7,460	7,460	7,460	3,235	6,415	6,415	6,415	6,415	2,780
	4x10	1-ply	UHD410	HGUS410	THDH410	12 ga	3-5/8	8-1/8	4	46	16d	16	16d	9,100	9,100	9,100	9,100	4,095	7,825	7,825	7,825	7,825	3,520
	(2) 4x10	2-ply	UHD7310	HGUS7.37/10	-	12 ga	7-3/8	8-9/16	4	46	16d	16	16d	9,095	9,095	9,095	9,095	3,430	7,820	7,820	7,820	7,820	2,950
	4x12	1-ply	UHD412	HGUS412	THDH412	12 ga	3-5/8	9-1/8	4	64	16d	20	16d	9,045	9,045	9,045	9,045	5,695	7,780	7,780	7,780	7,780	4,900
	(2) 4x12	2-ply	UHD7312	HGUS7.37/12	-	12 ga	7-3/8	10-5/8	4	56	16d	20	16d	9,295	9,295	9,295	9,295	3,835	7,995	7,995	7,995	7,995	3,300
	4x14	1-ply	UHD414	HGUS414	THDH414	12 ga	3-5/8	12-9/16	4	56	16d	22	16d	10,125	10,125	10,125	10,125	5,695	8,190	8,190	8,190	8,190	4,900
	(2) 4x14	2-ply	UHD7314	HGUS7.37/14	-	12 ga	7-3/8	12-9/16	4	56	16d	22	16d	10,500	10,500	10,500	10,500	5,080	9,030	9,030	9,030	9,030	4,370
	6x8	1-ply SCL	UHD558	HGUS5.50/8	-	12 ga	5-1/22	6-15/16	4	36	16d	12	16d	7,460	7,460	7,460	-	3,235	6,415	6,415	6,415	-	-
	6x10	1-ply SCL	UHD5510	HGUS5.50/10	-	12 ga	5-1/2	8-15/16	4	46	16d	16	16d	9,100	9,100	9,100	-	4,095	7,825	7,825	7,825	-	-
	6x10G	1-ply Glulam	UHD5210	HGUS5.25/10	-	12 ga	5-1/4	9-1/16	4	46	16d	16	16d	9,100	9,100	9,100	-	4,095	7,825	7,825	7,825	-	-
	6x12	1-ply SCL	UHD5512	HGUS5.50/12	-	12 ga	5-1/2	10-3/8	4	56	16d	20	16d	9,400	9,400	9,400	-	5,040	8,085	8,085	8,085	-	-
	6x12G	1-ply Glulam	UHD5212	HGUS5.25/12	THDH612	12 ga	5-1/4	10-1/2	4	56	16d	20	16d	9,400	9,400	9,400	-	5,040	8,085	8,085	8,085	-	-
	6x14	1-ply SCL	UHD5514	HGUS5.50/14	THDH614	12 ga	5-1/2	12-1/2	4	56	16d	22	16d	9,695	9,695	9,695	-	5,515	8,340	8,340	8,340	-	-
	7x10	1-ply Glulam	UHD6810	HGUS6.88/10	THDH6710	12 ga	6-7/8	8-13/16	4	46	16d	16	16d	9,100	9,100	9,100	-	4,095	7,825	7,825	7,825	-	-
	7x12	1-ply Glulam	UHD6812	HGUS6.88/12	THDH6712	12 ga	6-7/8	10-13/16	4	56	16d	20	16d	9,400	9,400	9,400	-	5,040	8,085	8,085	8,085	-	-
	7x14	1-ply Glulam	UHD6814	HGUS6.88/14	THDH6714	12 ga	6-7/8	12-13/16	4	66	16d	22	16d	9,695	9,695	9,695	-	5,515	8,340	8,340	8,340	-	-
	8x10	1-ply SCL/Glulam	UHD7210	HGUS7.25/10	THDH7210	12 ga	7-1/4	8-5/8	4	46	16d	16	16d	9,100	9,100	9,100	-	4,095	7,825	7,825	7,825	-	-
	8x12	1-ply SCL/Glulam	UHD7212	HGUS7.25/12	THDH7212	12 ga	7-1/4	10-5/8	4	56	16d	20	16d	9,400	9,400	9,400	-	5,040	8,085	8,085	8,085	-	-
	8x14	1-ply SCL/Glulam	UHD7214	HGUS7.25/14	THDH7214	12 ga	7-1/4	12-7/16	4	66	16d	22	16d	9,695	9,695	9,695	-	5,515	8,340	8,340	8,340	-	-

Continued on next page.

NOTES:

1. Nails designated as 16d shall be 16d common nails (0.162" x 3.5", F_{yb} = 90,000 psi) and 10d shall be 10d common nails (0.148" x 3", F_{yb} = 90,000 psi).
2. Allowable loads are provided for load duration factor (C_D) of 1.0, 1.15, 1.25 and 1.6.
3. Allowable loads labeled "Floor" and "Roof" represent gravity loads.
4. These Reference Numbers above are for the purpose of enabling our customers to identify the QuickTie™ alternative to specified product names, but the attributes of the products references (particularly load values) may differ from the QuickTie™ part. Please note that product comparison via Reference Numbers is for general application comparison only. Reference Numbers should not be used as an apples-to-apples substitution tool. Customers are solely responsible for comparing specific load values, fastener schedules, anchoring requirements, material specifications, and other factors when determining the suitability of use of any particular product. QuickTie™ makes no claim, stated or implied, of suitability for purpose or qualification for usage of our products that may be substituted for a specified product. Any specification, submittal, or change to a specified product should be approved in writing by the designer or Engineer of Record (EOR). MiTek® and Simpson Strong-Tie® are registered trademarks of their respective companies, with which QuickTie™ is unaffiliated, and neither of whom endorse or approve use of their product names in this catalog as "reference numbers".

*Allowable loads per NDS calculations, call QT for code approval information.

STRUCTURAL WOOD SCREWS

PRODUCT FEATURES:

The QuickTie™ Structural Wood Screws are self-drilling screws used for interior and exterior wood framing applications. These are 1/4" diameter screws, available in four different head configurations [Hex Head (SWH), Flat Head (SWF), Fillister Head (SWL) and Truss/Stud (SWT)] and various lengths.

Woods screws are installed without lead holes, as prescribed in NDS.

MATERIALS:

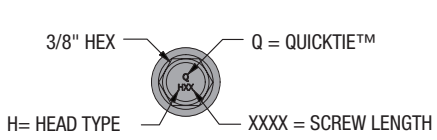
Carbon Steel, Heat Treated

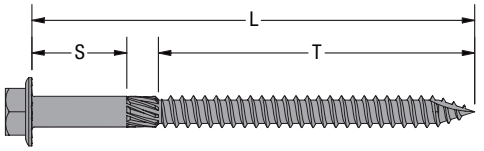
COATING:

Dorken Coating, Truss screw (SWT) has an additional teal top coat

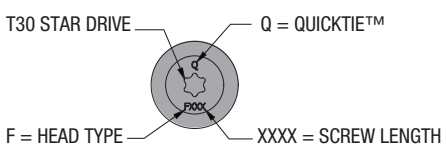
CODE COMPLIANCE:

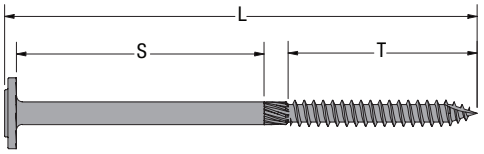
TER 0910-01, FL 3557



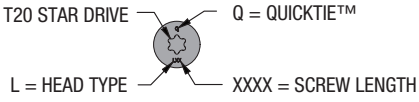


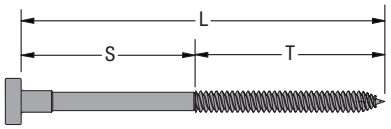
SWH



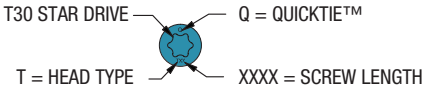


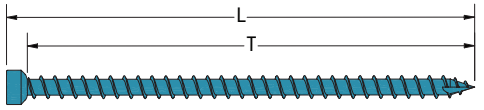
SWF





SWL





SWT

WOOD SCREWS SPECIFICATIONS[1,2]

FASTENER TYPE	PART NUMBER	PART DESCRIPTION	LENGTHS (in.)			DIAMETER (in.)				Nominal Bending Yield, F_{yb} (psi)	ALLOWABLE FASTENER	
			TOTAL	SHANK, S	THREAD, T	HEAD	MAJOR	SHANK	MINOR		Tension	Shear
SWH (HEX HEAD)	SWH15	1/4" x 1-1/2"	1-1/2"	1/4"	1-1/4"	0.540	0.254	0.241	0.185	168,000	1,435	985
	SWH2	1/4" x 2"	2"	1/4"	1-3/4"							
	SWH25	1/4" x 2-1/2"	2-1/2"	1/4"	2-1/4"							
	SWH3	1/4" x 3"	3"	3/4"	2-1/4"							
	SWH35	1/4" x 3-1/2"	3-1/2"	3/4"	2-3/4"							
	SWH45	1/4" x 4-1/2"	4-1/2"	1-1/4"	3-1/4"							
	SWH5	1/4" x 5"	5"	1-3/4"	3-1/4"							
	SWH6	1/4" x 6"	6"	1-3/4"	4-1/4"							
	SWH8	1/4" x 8"	8"	4-3/4"	3-1/4"							
SWF (FLAT HEAD)	SWF278	1/4" x 2-7/8"	2-7/8"	5/8"	2-1/4"	0.750	0.280	0.241	0.185	175,000	1,645	1,145
	SWF338	1/4" x 3-3/8"	3-3/8"	1-1/8"	2-1/4"							
	SWF358	1/4" x 3-5/8"	3-5/8"	1-3/8"	2-1/4"							
	SWF45	1/4" x 4-1/2"	4-1/2"	2-1/4"	2-1/4"							
	SWF5	1/4" x 5"	5"	2-3/4"	2-1/4"							
	SWF6	1/4" x 6"	6"	3-3/4"	2-1/4"							
	SWF638	1/4" x 6-3/8"	6-3/8"	4-1/8"	2-1/4"							
	SWF634	1/4" x 6-3/4"	6-3/4"	4-1/2"	2-1/4"							
	SWF8	1/4" x 8"	8"	5-3/4"	2-1/4"							
SWL (FILLISTER HEAD)	SWL15	9 x 1-3/8"	1-3/8"	1/4"	1-1/8"	0.365	0.170	-	0.109	160,000	465	385
	SWL3	9 x 2-7/8"	2-7/8"	1-3/8"	1-1/2"							
SWT (TRUSS/STUD)	SWT45	0.15" x 4-1/2"	4-1/2"	-	4-5/16"	0.330	0.235	-	0.160	190,000	1,160	820
	SWT6	0.15" x 6"	6"	-	5-13/16"							

NOTES:

1. SWF and SWT fastener length is measured from the top side of the head to the tip. SWH and SWL fastener length is measured from the underside of the head to the tip.
2. Thread length excludes the knurl on SWH and SWF. SWL and SWT do not contain a knurl.

REFERENCE LATERAL DESIGN VALUES (Z) FOR CONNECTIONS IN SAWN LUMBER (LB)[1,2,3]

Fastener Type	Part Number	Screw Length, L (in.)	Thread Length, T (in.)	Minimum Side Member Thickness (in.)	Minimum Main Member Penetration[4] (in.)	Wood Species (Specific Gravity)	
						SP (0.55) / DF-L (0.50)	
						$Z_{\parallel}$	$Z_{\perp}$
SWH	SWH3	3	2-1/4	1.50	1.50	420	330
	SWH35	3-1/2	2-3/4				
	SWH45	4-1/2	3-1/4				
	SWH5	5	3-1/4	1.50	3.50	500	330
	SWH6	6	4-1/4				
	SWH8	8	3-1/4				
SWF	SWF278	2-7/8	2-1/4	1.50	1.20	425	330
	SWF338	3-3/8	2-1/4				
	SWF358	3-5/8	2-1/4				
	SWF45	4-1/2	2-1/4	1.50	1.50	420	330
	SWF5	5	2-1/4				
	SWF6	6	2-1/4				
	SWF638	6-3/8	2-1/4				
	SWF634	6-3/4	2-1/4				
	SWF8	8	2-1/4				
SWT	SWT45	4-1/2	4-5/16	1.50	3.00	295[5]	
	SWT6	6	5-13/16				
SWL	SWL3	2-7/8	1-1/2	1.50	1.38	240	85

NOTES:

1. Reference lateral design values apply to two-member single shear connections where both members are of the same specific gravity and the fastener is oriented perpendicular to grain, unless otherwise noted.
2. Tabulated lateral design values (Z) shall be adjusted by all applicable adjustment factors per NDS Table 11.3.1
3. $Z_{\perp}$= Lateral Design Values Perpendicular to Grain, $Z_{\parallel}$ = Lateral Design Values Parallel to Grain.
4. Fastener main member penetration is the length embedded in the main member, including the tip.
5. Value is applicable where the main member is loaded parallel to grain and the side member is loaded perpendicular to grain.

REFERENCE WITHDRAWAL DESIGN VALUES (LB/IN) AND MAXIMUM WITHDRAWAL DESIGN VALUES (LB)[1,2]

Fastener Type	Part Number	Screw Length, L (in.)	Thread Length, T (in.)	Wood Species (Specific Gravity)		
				SP (0.55) / DF-L (0.50)		
				Per Inch Thread Penetration (Includes Tip) (lb/in.)	Per Inch Thread Penetration (Excludes Tip) (lb/in.)	Max. Withdrawal Value[1,2] (lb)
SWH	SWH15	1-1/2	1-1/4	310	390	405
	SWH2	2	1-3/4			600
	SWH25	2-1/2	2-1/4			795
	SWH3	3	2-1/4			
	SWH35	3-1/2	2-3/4			990
	SWH45	4-1/2	3-1/4			1180
	SWH5	5	3-1/4			
	SWH6	6	4-1/4			1435
	SWH8	8	3-1/4			1180
SWF	SWF278	2-7/8	2-1/4	340	480	935
	SWF338	3-3/8	2-1/4			
	SWF358	3-5/8	2-1/4			
	SWF45	4-1/2	2-1/4			
	SWF5	5	2-1/4			
	SWF6	6	2-1/4			
	SWF638	6-3/8	2-1/4			
	SWF634	6-3/4	2-1/4			
	SWF8	8	2-1/4			
SWT	SWT45	4-1/2	4-5/16	335	-	940
	SWT6	6	5-13/16			940
SWL	SWL15	1-1/8	1-1/2	225	-	250
	SWL3	2-7/8	1-1/2			335

NOTES:

1. Tabulated withdrawal values (W) shall be adjusted by all applicable adjustment factors per NDS Table 11.3.1.
2. Minimum fastener penetration into main member of 1" is required. Fastener penetration is the threaded length embedded in the main member.

REFERENCE LATERAL DESIGN VALUES (Z) FOR CONNECTIONS WITH STEEL SIDE PLATE (LB)[1,2,3]

Fastener Name	Minimum Side Member Thickness[4] (in.)	Minimum Main Member Penetration[3]	Wood Species (Specific Gravity)	
			SP (0.55) / DF-L (0.50)	
			$Z_{\parallel}$	$Z_{\perp}$
SWH15	0.075 (14 ga)	1.425	180	145
	0.105 (12 ga)	1.395	195	160
	0.120 (11 ga)	1.380	205	165
	0.134 (10 ga)	1.366	215	175
	0.179 (7 ga)	1.321	240	195
	0.239 (3 ga)	1.261	240	195
SWH2	0.075 (14 ga)	1.925	225	180
	0.105 (12 ga)	1.895	240	195
	0.120 (11 ga)	1.880	250	200
	0.134 (10 ga)	1.866	260	210
	0.179 (7 ga)	1.821	285	230
	0.239 (3 ga)	1.761	285	230
SWH25	0.075 (14 ga)	2.425	230	185
	0.105 (12 ga)	2.395	255	205
	0.120 (11 ga)	2.380	265	215
	0.134 (10 ga)	2.366	280	220
	0.179 (7 ga)	2.321	315	250
	0.239 (3 ga)	2.261	315	250
SWH3 SWH35 SWH45	0.075 (14 ga)	2.925	710	595
	0.105 (12 ga)	2.895	730	615
	0.120 (11 ga)	2.880	740	625
	0.134 (10 ga)	2.866	750	630
	0.179 (7 ga)	2.821	780	660
	0.239 (3 ga)	2.761	780	660
SWH5 SWH6 SWH8	0.075 (14 ga)	4.925	825	820
	0.105 (12 ga)	4.895	790	815
	0.120 (11 ga)	4.880	775	810
	0.134 (10 ga)	4.866	760	810
	0.179 (7 ga)	4.821	710	800
	0.239 (3 ga)	4.761	710	800
SWL15 SWL3	0.048 (18 ga)	1.330	330	310

NOTES:

1. Tabulated lateral design values (Z) shall be adjusted by all applicable adjustment factors per NDS Table 11.3.1.
2. $Z_{\perp}$= Lateral Design Values Perpendicular to Grain, $Z_{\parallel}$ = Lateral Design Values Parallel to Grain.
3. Fastener main member penetration is the length embedded in the main member, including the tip.
4. Tabulated allowable shear values apply to assemblies having a wood main member with a specific gravity of at least 0.50 and a steel side plate with an ultimate tensile strength of at least 65 ksi.

REFERENCE HEAD PULL-THROUGH DESIGN VALUES (LB)[1,2]

Fastener Type	Head Diameter (in.)	Wood Species (Specific Gravity)
		SP (0.55) / DF-L (0.50)
SWH	0.540	790
SWF	0.750	1210
SWL	0.365	430

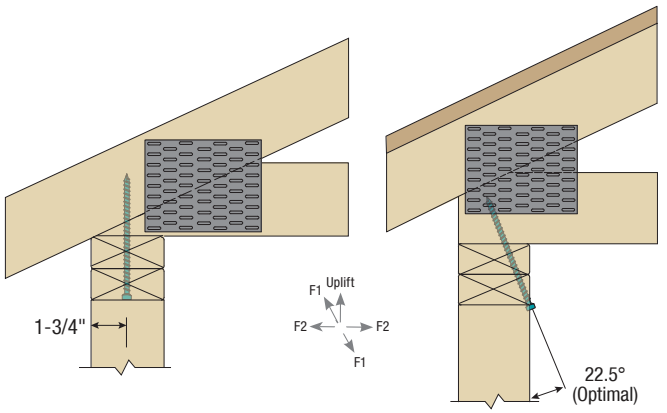
NOTES:

1. Tabulated pull-through values (P) shall be adjusted by all applicable adjustment factors per NDS Table 11.3.1.
2. Pull-through design values apply to connections having a minimum wood side member thickness of at least 1.5".

ALLOWABLE UPLIFT AND LATERAL LOADS FOR TRUSS SCREW IN TOP PLATE TO TRUSS/RAFTER/JOIST CONNECTIONS[1,2,3]

Fastener Designation	Min. Penetration into Truss/ Rafter/Joist (in.)	Top Plate	Fastener Angle to Vertical	Allowable Loads (lb)		
				Wood Species (SG) SP (0.55)		
				Uplift	F1	F2
SWT6	2-1/2	Double	0°	940	530	500
			22.5°	940	360	705

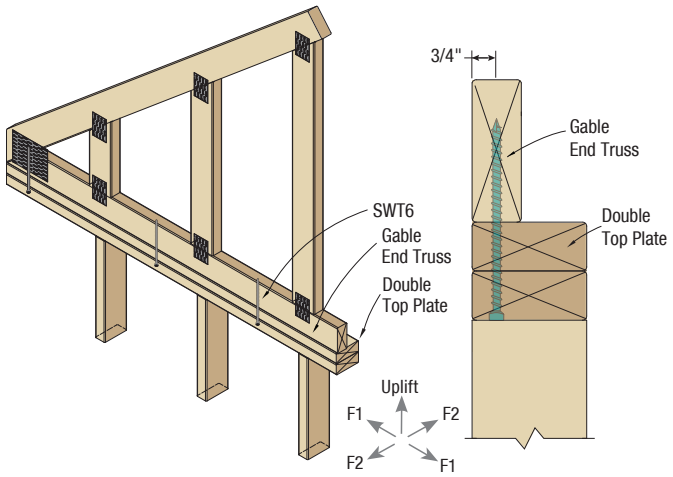
NOTES:
1. Wood truss, rafter, or floor joist members shall be a minimum of 2" nominal thickness.
2. Includes 1.6 duration of load increase for wind and seismic. No further duration of load increases permitted. Reduce design values for other load durations as applicable.
3. Install fastener at an upward angle from the vertical of 20° to 25° (22.5° is optimal) or 0°. For installation between 20° and 25°, design values for 22.5° may be used.



ALLOWABLE UPLIFT AND LATERAL LOADS FOR TRUSS SCREW IN TOP PLATE TO GABLE END TRUSS CONNECTIONS[1,2,3]

Fastener Designation	Min. Penetration into Gable End Truss (in.)	Top Plate	Fastener Angle to Vertical	Allowable Loads (lb)		
				Wood Species (SG) SP (0.55)		
				Uplift	F1	F2
SWT6	3	Double	0°	940	650	565

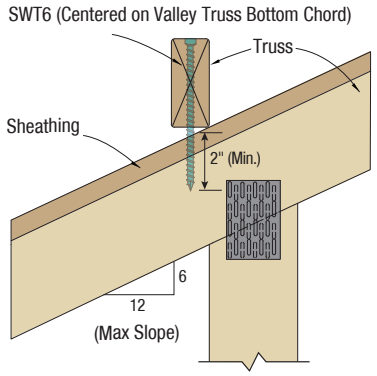
NOTES:
1. Gable end truss bottom chord shall be a minimum of 2" nominal thickness. Design of truss, rafter, or floor joist is by others.
2. Includes 1.6 duration of load increase for wind and seismic. No further duration of load increases permitted. Reduce design values for other load durations as applicable.
3. Install fastener at an upward angle from the vertical of 0 degrees. Fastener edge distance is ¾".



ALLOWABLE UPLIFT LOAD FOR TRUSS SCREW IN VALLEY TRUSS CONNECTION[1,2,3,4]

Fastener Designation	Min. Penetration into Main Member (in.)	Fastener Angle to Vertical	Allowable Uplift Load (lb)
			Wood Species (SG) SP (0.55)
SWT6	2	0°	675

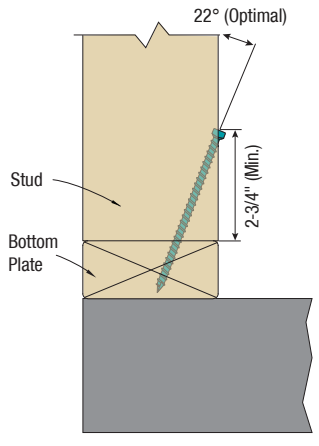
NOTES:
1. Install fastener at an angle from the vertical of 0°, with the fastener centered on the valley truss bottom chord members.
2. Truss members shall be a minimum of 2" nominal thickness. Sheathing may be installed between the truss members.
3. Lower truss member may have a maximum 6:12 pitch. A minimum 2" penetration into the main member is required.
4. Includes 1.6 duration of load increase for wind and seismic. No further duration of load increases permitted. Reduce design values for other load durations as applicable.



ALLOWABLE UPLIFT AND LATERAL LOADS FOR STUD TO PLATE CONNECTIONS, FASTENER INSTALLED IN NARROW FACE

Fastener Designation[1]	Nominal Plate Thickness[2]	Allowable Loads[3,4] (lb)	
		Wood Species (SG) SP (0.55)	
		Uplift	Lateral (F2)[5]
SWT45	2x	565	405

NOTES:
1. Fastener shall be installed at an angle between 20-30 degrees. 22 degrees is optimal.
2. Dimensional lumber members shall be a minimum of 2" nominal thickness.
3. Includes 1.6 duration of load increase for wind and seismic. No further duration of load increases permitted. Reduce design values for other load durations as applicable.
4. Limit one fastener installed in the narrow face of each stud.
5. The lateral load direction (F2) is perpendicular to the face of the wall.



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TER 1811-03
(QuickTie™ U-Hanger Series)

TER 1404-06
(QuickTie™ Systems-Masonry)

TER 1506-20
(QuickTie™ Systems-Portal Frame)

ESR-4467
(QE-1 Adhesive Anchoring System)

ESR-4865
(QE-2 Adhesive Anchoring System)

INSTALLATION VIDEOS

SPArtan™ Installation

Form Tie Installation

Wood Frame Installation

Masonry Installation

Column Installation

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At Mexico Beach, FL

Quick Tie Products, Inc.
quicktie.com

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