## Contents

**Product Listing**

**LOK Line™ Structural Wood Screws**
- TimberLOK® Heavy Duty Wood Screw & Rafter/Truss to Top Plate Connection ........................................ 3
- HeadLOK® Heavy Duty Flathead Fastener ................................................................. 5
- LedgerLOK® and LedgerLOK® Flat Head Ledger Board Fastener ........................................... 7
- FlatLOK® Structural Wood Screw .......................................................... 9
- ThruLOK® Screw Bolt Fastening System ..................................................... 11

**Deck Attachment**
- Lateral Tension System® Code Compliant Lateral Deck Attachment .................................................. 13

**Wood Framing Systems**
- FrameFAST™ Wood Framing System ................................................................. 15

**Hidden Fastening Systems**
- Cortex® Deck Hidden Fastening System for Decking .................................................. 17
- Cortex® Fascia Hidden Fastening System for Fascia .................................................. 19
- Cortex® Trim Hidden Fastening System for PVC Trim .............................................. 21
- TigerClaw® Hidden Fastening Systems for Grooved Decking ........................................... 23
- TigerClaw® Hidden Clip Systems for Square Edge Decking .............................................. 25

**Deck & Trim Screws**
- TRIO® Ultimate Deck Screw for Softwoods .................................................. 27
- TrapEase® 3 Ultimate Deck Screw for PVC, Capstock and Composites ......................... 29
- TrimTop™ Stainless Steel Coated Trim Screw .................................................. 31
- GuardDog® Exterior Wood Deck Screw ................................................................. 33

**Hot Melt Adhesive System**
- HB220 Pro Adhesive Applicator ................................................................. 35
- FLEX™ Hot Melt Construction Adhesive ................................................................. 36

**AutoFeed Screw System**
- PAMFast™ AutoFeed Screw System ................................................................. 37

**Log Home Fasteners**
- OlyLog® Log Home Fastener ................................................................. 39
- LogHog® Heavy Duty Log Home Fastener .................................................. 40

**Replacement Gutter Screws**
- GutterScrew™ ................................................................. 41

**FastenMaster Technical Resources** ................................................................. 42
For technical support or to place an order: 800·518·3569 or www.FastenMaster.com

INSTALLATION PROCEDURE
TimberLOK should be installed using a high torque, 1/2” variable speed drill (18V if cordless). Choose the proper length so that threads fully engage the main member or bottom piece. Bring washer head flush to wood surface or countersink head flush.

For rafter or truss to top plate applications, the 6” TimberLOK is easily installed at a 15-30° angle. For detailed installation instructions, including fastening requirements, please refer to our Rafter or Truss to Top Plate technical bulletins.

These instructions are included in all box and bucket packaging as well as being available for download from our website. A design professional should be consulted for all other critical connections, to include the number and location of all fasteners to meet national and local code requirements.

GUARANTEED CORROSION RESISTANCE
TimberLOK is guaranteed not to rust or corrode for the life of the project. The coating on this fastener has been tested in wood treatment chemicals, such as ACQ, and found to provide equivalent protection to code-approved hot-dipped galvanized coatings. TimberLOK is not recommended for use in saltwater applications (within 1,000 ft).

FEATURES
- No predrilling
- Faster and easier than 3/8” lag screws
- Countersinking head style
- Guaranteed corrosion resistance. ACQ approved
- IBC/IRC code compliant. ICC-ES ESR-1078
- Free bit in every package

LENGTHS: 2 1/2”, 4”, 6”, 8”, 10”

PACKAGING QUANTITIES
12 pc clamshell, 50 pc box, 250 pc bucket
500 pc bucket (2 1/2” only)

DESCRIPTION
TimberLOK is a heavy duty wood screw available in a variety of lengths and packaging sizes for applications such as attaching rafter or trusses to the top plate, landscape timbers, fences, decks, headers, stair stringers and more.

MEET CODE. LOWER COST.
The 6” TimberLOK is used by professional contractors nationwide to meet code and lower costs for rafter and truss to top plate connections.

Meet Code: Tested and proven to meet the most recent IRC/IBC requirements for rafter and truss to top plate connections in most applications. Lower Cost: Requires no predrilling, saving time and labor.

ADDITIONAL RESOURCES

For technical support or to place an order: 800·518·3569 or www.FastenMaster.com

FastenMaster Technical Bulletins
Our Rafter to Top Plate and Truss to Top Plate technical bulletins, which include detailed installation instructions, fastening requirements and design loads, are available for download from our website. For additional technical data, refer to pages 45 and 46 of this catalog.

Ask the FastenMaster Installation Video
Our Ask the FastenMaster video series includes installation information for many of our products, including our TimberLOK Rafter Tail or Truss to Top Plate Connection videos. These can be viewed on our website.
HEADLOK
HEAVY DUTY FLATHEAD FASTENER

FEATURES
• No predrilling
• Faster, easier than 3/8” lag screws
• Non-countersinking head style
• Guaranteed corrosion resistance. ACQ approved
• IBC/IRC code compliant.
• ICC-ES ESR-1078
• Free SpiderDrive® bit in every package

DESCRIPTION
HeadLOK is a heavy duty wood screw that does it all with an internal drive and flat head. HeadLOK offers higher design shear than 3/8” lag screws and no predrilling is needed! HeadLOK zips right in and is ideal for many wood-to-wood applications including decks, fences, SIPs, kitchen cabinets and more. The patented SpiderDrive® eliminates cam-out and improves installation speed.


PACKAGING QUANTITIES
250 pc bucket, 500 pc bucket (1 5/8” only)

ADDITIONAL RESOURCES
Ask the FastenMaster Installation Video
Our Ask the FastenMaster video series includes installation information for many of our products, including our HeadLOK Flathead Structural Wood Screw video. These can be viewed on our website.

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
**LedgerLOK™**

**LEDGER BOARD FASTENERS**

**FEATURES**
- No predrilling
- Replaces traditional 1/2" lag screws
- #1 structural wood screw engineered for ledgers
- Hex washer head style on LedgerLOK
- TORX® tap® Drive System on LL Flat Head style
- Guaranteed corrosion resistance: ACQ approved
- IBC/IRC code compliant: ICC-ES ESR-1078
- Free bit in every package

**LENGTHS**: 3 5/8", 5"

**PACKAGING QUANTITIES**
- 12 pc clamshell
- 50 pc box
- 250 pc bucket

**DESCRIPTION**
LedgerLOKs are the first wood screws engineered to fasten a deck ledger board to the rim joist of a house with no predrilling. The hex head version allows for greater engagement, reducing cam-out. The Flat Head style, with TORX® tap® drive system, provides flush to ledger installation saving additional time and money.

**MEET CODE. LOWER COST.**
LedgerLOKs are used by professional contractors nationwide to meet code and lower costs for making deck ledger connections.

**GARANTIED CORROSION RESISTANCE**
LedgerLOKs are guaranteed not to rust or corrode for the life of the project. The fasteners have also been tested and approved for use in ACQ including contact treatment levels. LedgerLOKs are not recommended for saltwater applications.

**INSTALLATION PROCEDURE**
LedgerLOKs should be installed using a high torque 1/2" variable speed drill (18V if cordless) or impact driver. Choose the proper length so that threads fully engage the main member (i.e., rim joist). Bring washer flush to side member with hex head style—do not countersink. Bring head flush with ledger using the flat head style. **Not for use in masonry or concrete.**

For detailed installation instructions, including fastening requirements, please refer to our Deck Ledger to Rim Joist technical bulletin. These instructions are included in all box and bucket packaging as well as being available for download from our website. When using in non-ledger applications, a design professional should be consulted for all critical connections, which include the number and location of all fasteners to meet national and local code requirements.

**GUARANTEED CORROSION RESISTANCE**
LedgerLOKs are guaranteed not to rust or corrode for the life of the project. The fasteners have also been tested and approved for use in ACQ including contact treatment levels. LedgerLOKs are not recommended for saltwater applications.

**ADDITIONAL RESOURCES**

**ACCOUNTS**
FastenMaster Technical Bulletins
Our Deck Ledger to Rim Joist technical bulletin, which includes detailed installation instructions, fastening requirements and design loads, is available for download from our website.

For additional technical data, refer to page 48 of this catalog.

**ASK THE FastenMaster**
Ask the FastenMaster Installation Video
Our Ask the FastenMaster video series includes installation information for many of our products, including our LedgerLOK Deck Ledger to Rim Board Connection video. This can be viewed on our website.

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com

---

**FOR TECHNICAL SUPPORT OR TO PLACE AN ORDER:**
- LOK Line™ Structural Wood Screws
- 800·518·3569
- www.FastenMaster.com
FlatLOK™ STRUCTURAL WOOD SCREW

FEATURES
- No predrilling
- Strip-out resistant #40 TORX® tap® drive system
- Guaranteed corrosion resistance. ACQ approved
- Approved for single-sided installation
- Code compliant based on testing per ICC-ES AC233
- Free bit in every package

LENGTHS: 2 7/8", 3 1/2", 4", 4 1/2", 5", 6", 6 3/4"

PACKAGING QUANTITIES
50 pc box, 250 pc bucket
500 pc bucket (2 7/8" only)
200 pc bucket (6 3/4" only)

DESCRIPTION
FlatLOK is designed for various multi-ply dimensional and engineered wood connections. FlatLOK is approved for single-sided installation. Not intended for use on exterior deck ledgers; FastenMaster LedgerLOK is designed specifically for this application.

MEET CODE, LOWER COST.
Meet Code: Tested and proven to meet manufacturers’ requirements for single-sided installation of multi-ply LVL, LSL and PSL.
Lower Cost: Requires no predrilling, saving time and labor.

ADDITIONAL RESOURCES
FastenMaster Technical Bulletins
Our Multiple Member Engineered Wood Beams technical bulletin, which includes detailed installation instructions, fastening requirements and design loads, are available for download from our website.
For additional technical data, refer to pages 49-52 of this catalog.

INSTALLATION PROCEDURE
FlatLOK should be installed using an impact driver or high torque 1/2” variable speed drill (minimum 18V if cordless).
No predrilling is required when properly installed. Bring fastener flush with wood surface, do not overdrive.

GUARANTEED CORROSION RESISTANCE
FlatLOK is guaranteed not to rust or corrode for the life of the project. FlatLOK is not recommended for use in saltwater applications.
ThruLOK®
CARRIAGE & THROUGH-BOLT REPLACEMENT

FEATURES
• No predrilling
• Faster, easier than 1/2” carriage or through-bolts
• No drill bits or wrenches required
• Galvanized coating meets code requirements for treated wood. ACQ Approved.
• IBC/IRC code compliant
• ICC-ES ESR-1078
• Lifetime performance guarantee

LENGTHS
6 1/4”, 7”, 8”, 9 1/2”

PACKAGING QUANTITIES
6 pc box, 24 pc box, 100 pc bucket

DESCRIPTION
The ThruLOK System combines the strength of a through-bolted connection with the speed of a FastenMaster LOK fastener. The 6 1/4”, engineered to connect 4x4 posts to 2x joists. The 7”, engineered to connect two 2x beams to a notched 6x6 post. The 8”, engineered to connect 4x4 posts to a double rim joist or single rim joist and 2x blocking. The 9 1/2”, engineered to attach a 6x6 post to two 2x beams.

MEET CODE. LOWER COST.
Meet Code: ThruLOK has been tested and proven to meet the most recent IBC/IRC requirements for guardrail posts to rim joist connections. Lower Cost: Requires no predrilling, saving time and labor.

INSTALLATION PROCEDURE
No predrilling required when properly installed. Put the ThruLOK washer on the screw with the teeth of the washer facing away from the head of the fastener. Using a 1/2” high torque variable speed drill (18V if cordless), drive the ThruLOK until washer and hex-head are just above the wood surface (approx. 1/4”) and point of screw protrudes out other side of connection. Thread the nut onto point of fastener. Tighten nut until flush with wood. Tighten screw with drill. NOTE: Point of fastener must engage in nut to “MIN” line or beyond.

For detailed installation instructions, including fastening requirements, please refer to our ThruLOK Deck Post and Carrying Beam technical bulletins. These instructions are included in all packaging as well as being available for download from our website. A design professional should be consulted for all other critical connections, to include the number and location of all fasteners to meet national and local code requirements.

GUARANTEED CORROSION RESISTANCE
ThruLOK is guaranteed not to rust or corrode for the life of the project. ThruLOK is not recommended for use in saltwater applications.

ADDITIONAL RESOURCES

FastenMaster Technical Bulletins
Our ThruLOK Deck Post and ThruLOK Carrying Beam technical bulletins, which include detailed installation instructions, fastening requirements and design loads, are available for download from our website.

For additional technical data, refer to pages 53 and 54 of this catalog

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
CODE COMPLIANT LATERAL DECK ATTACHMENT

Lateral Tension System™

FEATURES
- Meets the 2015 and 2018 IRC
- ACQ Approved Coating
- No pre-drilling required
- No interior access needed to install
- Free bits in every package

PACKAGING QUANTITIES
Each kit contains:
- (4) Lateral Tension Brackets
- (4) Transfer Screws
- (32) Bracket Mounting Screws
- (2) Driver Bits

DESCRIPTION
Lateral Tension System™ (LTS) is a complete kit designed to meet the newest code for transferring lateral deck loads. The International Residential Code (IRC) requires that decks be designed to withstand both vertical and lateral loads. This 2015 code allows for tension ties to be attached to the deck joist then fastened directly to an interior sill plate, wall plate or stud – all from the outside.

INSTALLATION PROCEDURE
The LTS is approved for the five most common installation conditions:
- Condition A: Sill Plate or Wall Plate Behind Ledger
- Condition B: Sill Plate or Wall Plate Directly Below Ledger
- Condition C: Sill Plate or Wall Plate 2" – 5" below Ledger
- Condition D: Wall Stud in line with Deck Jost
- Condition E: Wall Stud between Deck Josts

The FastenMaster LTS, is one complete kit to make all five of these code conforming connections. Each LTS bracket attaches an individual deck joist to a structural framing member of the house. With the LTS, you can install the fastener first and then add the bracket. The long fastener allows you to achieve the 3” of threading within the sill plate without having to access the interior of the house. You can achieve the code compliant connection in seconds.

GUARANTEED CORROSION RESISTANCE
LTS is guaranteed not to rust or corrode for the life of the project. The coating on this fastener has been tested in wood treatment chemicals, such as ACQ, and found to provide equivalent protection to code-approved hot-dipped galvanized coatings. LTS is not recommended for use in saltwater applications (within 1,000 ft).

Lateral Tension System SKU Selection Guide

<table>
<thead>
<tr>
<th>TYPICAL APPLICATIONS</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 common installation types above</td>
<td>PMETS-4</td>
</tr>
</tbody>
</table>

ADDITIONAL RESOURCES

FastenMaster Technical Bulletins
Our Lateral Tension System technical bulletin, which includes detailed installation instructions, fastening requirements and design loads, are available for download from our website. For additional technical data, refer to pages 55 and 36 of this catalog

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
FrameFAST™
WOOD FRAMING SYSTEM

FEATURES
• No predrilling
• Eliminates ladders
• Eliminates nail guns and pneumatic hoses
• Code compliant across USA and Canada
• Guaranteed corrosion resistance
• Free bit in every package

LENGTH: 6”

PACKAGING QUANTITIES
200 pc box

DESCRIPTION
The FrameFAST system consists of both the structural wood screws and the FrameFAST tool. The 6” FrameFAST structural wood screw is a code compliant replacement to hurricane ties and it’s fully threaded design provides superior uplift and lateral resistance.

SAFETY AND SPEED
The FrameFAST tool is specifically designed to install the FrameFAST fastener in a consistent and safe manner by eliminating the need for ladders or scaffolding. Productivity and safety are significantly increased.

GUARANTEED CORROSION RESISTANCE
FrameFAST is guaranteed not to rust or corrode for the life of the project. FrameFAST is not recommended for use in salt water applications (within 1,000 ft.).

FrameFAST SKU Selection Guide

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>TYPICAL APPLICATIONS</th>
<th>PACKAGING QTY</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>6”</td>
<td>Rafter or Truss to Top Plate</td>
<td>200 pc. box</td>
<td>FMFF006-200</td>
</tr>
<tr>
<td>FrameFAST Tool</td>
<td></td>
<td></td>
<td>FMFFTOOL-T2TP</td>
</tr>
</tbody>
</table>

*Additional head attachments coming soon

FrameFAST Tool
The FrameFAST tool is specifically designed to install the FrameFAST fastener in a consistent and safe manner by eliminating the need for ladders or scaffolding. Productivity and safety are significantly increased.

ADDITIONAL RESOURCES
Technical Evaluation Report
FastenMaster has partnerships with accredited third party testing and evaluation agencies to establish code-compliant design values for use by design professionals. An engineer stamped evaluation report for this connection, published by DRJ Engineering, can be found by visiting us at FastenMaster.com/resources.

For additional technical data, refer to page 43 and 44 of this catalog.

Ask the FastenMaster Installation Video
Our Ask the FastenMaster video series includes installation information for many of our products, including our FrameFAST video. These can be viewed on our website.

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
Cortex
HIDDEN FASTENING SYSTEM FOR DECKING

FEATURES
- Now with Pre-aligned Grain Collated Plugs
- Cortex plugs made from the same material as market-leading deck boards.
- ACQ Approved
- Strip-out resistant #20 TORX® ttap® drive system

DESCRIPTION
The Cortex Hidden Fastening System is the fastest, easiest way to hide the heads of your deck screws across the entire deck, first and last board, perimeter, and stairs. Cortex plugs are made from the same material as market-leading deck boards.

COMPLETE HIDDEN FASTENING
Combine the versatility of Cortex for first board, last board, perimeter boards and stairs with the speed and ease of the Tiger Claw TC-G for the field of the deck to get a beautiful fastener-free surface.

LENGTH: 2 1/2”

INSTALLATION PROCEDURE
Installation with Spotter Lid Guide
Position the legs of the guide to straddle the joist or stringer and push guide flat to decking surface. Predrill through center holes using a standard 3/16” diameter drill bit. With the setting tool, drive screw at medium or high speed until it disengages at proper level below the deck surface. Drive at one continuous speed - do not slow down. Install 2 screws into decking at each joist. Maximum spacing between each row of 2 screws should be 16” on-center.

Installing Collated Cortex Plugs:
Tear off one strip of collated Cortex plugs from quad strip and position the leading plug into hole. With a clean hammer, gently tap plug into place. Pull collated strip away from installed plug, and tap plug once more to flush. For installation information, please view our Ask the FastenMaster Complete Hidden Deck Fastening with TC-G and Cortex video on our website.

PACKAGING QUANTITIES (Loose)
- 100 lin ft (224 screws, 300 plugs, 2 setting tools)
- 100 sq ft (350 screws, 400 plugs, 3 setting tools)
- 300 sq ft (1050 screws, 1200 plugs, 6 setting tools)

PACKAGING QUANTITIES (Collated)
- 100 lin ft (224 screws, 300 plugs, 2 setting tools)
- 100 sq ft (350 screws, 400 plugs, 3 setting tools)
- 300 sq ft (1050 screws, 1200 plugs, 6 setting tools)

#20 TORX® tip driver bits (2 PK)

Cortex is also available directly from the following board manufacturers: AZEK®, Clubhouse®, Fiberon®, Deckorators®, TimberTech®, and Wolf®. For information and stocking dealers, please visit their websites.

SELECTING SKU/BOARD COLOR
When ordering, please combine SKU column with board manufacturer color key.
Example: Cortex 100 sq ft for Trex Select Madeira = FMCTX-TXH50SLMD

**New board colors are always being added to the Cortex product line. If the board color you are looking for is not listed, consult our website for recent updates or call FastenMaster customer service.**

Now with Cortex Collated Plugs!

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
Cortex® FASCIA
HIDDEN FASTENING SYSTEM

FEATURES
- Engineered for fascia expansion/contraction
- Plugs made from Trex fascia board
- Strip-out resistant #20 TORX® tapt® drive system
- Perfect color match

PACKAGING QUANTITIES
50 lin ft (100 screws, 105 plugs, 1 counterbore tool and 1 setting tool)

LENGTH: 1 3/4”

DESCRIPTION
The Cortex for Fascia Hidden Fastening System is the fastest, easiest way to hide the heads of your deck screws when installing fasia or stair risers.

INSTALLATION PROCEDURE
Cortex for Fascia can be installed using a 18V or greater cordless drill for all parts of this installation. An impact driver is not recommended. For 1x8 fascia, install a vertical row of 2 fasteners every 18”. Use 3 fasteners for 1x12 fascia. Install the first and last row 1” from board ends, tack the fascia board into place using a few Cortex Fascia screws and leave the heads slightly raised. With fascia in place, drill the recommended fastening pattern using the Cortex Counterbore Tool. Install screws into each prepared hole using the Cortex Fascia Setting Tool. Drive in one continuous motion until fastener is seated, keeping the fastener perpendicular to fascia for best finished look. Install Cortex Fascia Plugs over each screw head. First, align the grain to match fascia and set into position by hand. Using a clean, smooth faced hammer, gently tap plug to flush Remove the tacking screws, counterbore the resulting hole, fasten and install plugs to finish the job. Our Ask the FastenMaster Complete Hidden Fastening for Fascia video on our website.

Cortex® Driller
HIDDEN FASTENING SYSTEM FOR TREX ELEVATIONS FRAMING

DESCRIPTION
The Cortex Driller Hidden Fastening System is the easiest way to hide screw heads on deck boards used on steel deck framing.

FEATURES
- Fastened in same way as traditional deck boards
- Featuring the TORX® tapt® Drive System
- Perfect color match
- No predrilling needed
- Guaranteed corrosion resistance. ACQ approved

PACKAGING QUANTITIES
100 lin ft (224 screws, 300 plugs, 2 setting tools)

LENGTH: 1 5/8” stainless steel

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
INSTALLATION PROCEDURE

Using a standard 18V cordless impact drill and setting tool, drive the fastener to the preset level below the trim surface. The fastener must be driven perpendicular to the surface.

Installing Collated Cortex Plugs: Tear off one strip of collated Cortex plugs from quad strip and position the leading plug into hole. Gently tap with a clean hammer plug into place. Pull collated strip away from installed plug and tap plug once more to flush. Be careful to ensure that head of hammer is flat with trim surface to eliminate potential marring caused by the hammer and the hole is free of debris. If desired, Cortex for PVC Trim can be painted. See PVC Trim manufacturer technical information for specific painting instructions. The Cortex Hidden Fastening System is designed for use with PVC Trim with actual thicknesses of 5/8” to 5/4”.

FEATURES
• Collated Cortex Plugs, the fastest, easiest way to install Cortex Plugs
• Strip-out resistant #20 TORX® tap® drive system
• Dual Lead Fastener Thread installs 50% faster than traditional trim fasteners

LENGTHS: 2”, 2 3/4”

PACKAGING QUANTITIES (Loose Plugs)
50 lin ft (75 screws, 100 plugs, 1 setting tool)
250 lin ft (375 screws, 400 plugs, 3 setting tools)
750 lin ft (1125 screws, 1200 plugs, 6 setting tools)

DESCRIPTION
The FastenMaster Cortex Hidden Fastening System is the fastest, easiest way to hide fastener heads when installing PVC Trim. The finished look of Cortex is virtually invisible.

PACKAGING QUANTITIES (Collated Plugs)
250 lin ft (375 screws, 400 plugs, 3 setting tools)
750 lin ft (1125 screws, 1200 plugs, 6 setting tools)

For technical support or to place an order: 800·518·3569 or www.FastenMaster.com
TigerClaw® and TC-120® HIDDEN FASTENING SYSTEMS FOR GROOVED DECKING

**FEATURES**
- Ultimate corrosion resistance. ACQ Approved
- Strong connection between decking and joists
- Requires no special tools
- TC-G fits most 5/4" grooved decking
- TC-120 fits 3/4" hardwood decking with no predrilling

**PACKAGING QUANTITIES**
- TC-G, 50 sq ft bag with hand driven screws, 500 sq ft bucket for use with pneumatic gun
- TC-120, 50 sq ft bag with hand driven screws

**DESCRIPTION**
Tiger Claw TC-G and TC-120 clips are the easiest way to install grooved decking. Use the Tiger Claw Pneumatic Installation Gun for the fastest possible installation. Create grooves in non-grooved boards with the TC-G or TC-120 slot cutter.

**COMPLETE HIDDEN FASTENING**
Combine the speed and ease of the Tiger Claw TC-G for the field of the deck with the versatility of Cortex for first board, last board, perimeter boards and stairs to get a beautiful fastener-free surface.

**INSTALLATION PROCEDURE**
Fully insert TC-G or TC-120 clip into grooved edge of deck board. Screw hole should line up with the center of support joist. While standing on deck board, install provided screw at 45° angle through clip and into joist. Install one fastener and screw at each support joist.

For more detailed information, please refer to our TC-G/TC-120 installation instructions included in all packaging as well as Ask the FastenMaster Installation Video for Complete Hidden Deck Fastening with TC-G and Cortex is available on our website.

**INSTALLATION TOOLS/ACCESSORIES**
- Pneumatic Installation Gun
  - The Tiger Claw Installation Gun is a semi-automatic installation tool that greatly increases the installation speed of TC-G clips.
  - This tool can also be used with TimberTech® CONCEALoc™, Cali Bamboo®, Clubhouse™ Connect Clips and Trex HideAway™ fasteners.
- Slot Cutters
  - For non-grooved boards, use the TC-G or TC-120 slot cutter to create the correct groove for each clip.

**TC-G and TC-120 Clips SKU Selection Guide**

<table>
<thead>
<tr>
<th>Clip</th>
<th>Board Compatibility</th>
<th>Packaging Qty</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-G</td>
<td><em>Composite</em></td>
<td>90 pc bag (50 sq ft)</td>
<td>F-4058-TCGS</td>
</tr>
<tr>
<td>TC-120</td>
<td><em>Wood</em></td>
<td>900 pc gun bucket (500 sq ft)</td>
<td>F-5913-GNFS</td>
</tr>
</tbody>
</table>

*Coverage based on 16” o.c. joist spacing 100 sq ft

**Ask about our First Time User Program**
TC-1, TC-2, TC-3, and TC-4
HIDDEN CLIP SYSTEMS FOR SQUARE EDGE DECKING

FEATURES
- Carbon steel clips provide guaranteed corrosion resistance. ACQ Approved
- Strong connection between decking and joists
- Side penetration of the clips eliminates board cupping after installation

PACKAGING QUANTITIES
TC-1, 90 pc box
TC-2, 90 pc box, 900 pc bucket
TC-3, 90 pc box, 900 pc bucket
TC-4, 90 pc box, 1,400 pc bucket

CLIP DESCRIPTION
TC-1, TC-2, TC-3, and TC-4 are hidden fastener clips for softwoods, hardwoods, composite, capstock and PVC decking boards.
TC-1 Carbon steel fastener for softwood decking such as pressure treated, cedar, or redwood
TC-2 Stainless steel fastener for softwood decking such as pressure treated, cedar, or redwood
TC-3 Stainless steel fastener for composite, PVC and mahogany
TC-4 Hardwood & Ipe stainless steel fastener for 3/4" hardwood decking up to 4" wide

INSTALLATION PROCEDURE
Insert prongs of fastener into installation block slots. To ensure even deck surface, make sure you are standing on deck board when installing with block. Place block over joist, strike with hammer, then screw into joist. Install screw at a 45° angle, through center hole of fastener and down into support joist. Check position of prongs – make sure prongs are at a 90° angle to joist. Install one Tiger Claw fastener and screw into edge of deck board at each support joist.

For more detailed information, please refer to our Tiger Claw Drive-In installation instructions included in all packaging as well as being available for download from our website.

Tiger Claw Drive-Ins SKU Selection Guide

<table>
<thead>
<tr>
<th>CLIP</th>
<th>BOARD COMPATIBILITY</th>
<th>PACKAGING QNTY</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1</td>
<td>Wood</td>
<td>90 pc (50 sq ft)</td>
<td>F-0001-TC1X</td>
</tr>
<tr>
<td></td>
<td>Pressure Treated Pine</td>
<td>Red Wood</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Western Red Cedar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TC-2</td>
<td>Wood</td>
<td>90 pc box (50 sq ft)</td>
<td>F-4387-2SB</td>
</tr>
<tr>
<td></td>
<td>Pressure Treated Pine</td>
<td>Red Wood</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Western Red Cedar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TC-3</td>
<td>Composite</td>
<td>90 pc box (50 sq ft)</td>
<td>F-4401-3SB</td>
</tr>
<tr>
<td></td>
<td>PVC</td>
<td>900 pc bucket (500 sq ft)</td>
<td>F-4408-3CB</td>
</tr>
<tr>
<td></td>
<td>Elements® MoistureShield® Ultra Deck Reversible®</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AZEK® Fiberon Outdoor Flooring® Vikat®</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TEKdek® Sensibuilt® WOLF Clubhouse®</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mahogany</td>
<td>900 pc bucket (500 sq ft)</td>
<td>F-4534-T490</td>
</tr>
<tr>
<td></td>
<td>Port Cedar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TC-4</td>
<td>Wood</td>
<td>90 pc box (35 sq ft)</td>
<td>F-4534-T490</td>
</tr>
<tr>
<td></td>
<td>Brazilian Redwood*</td>
<td>1,400 pc bucket (340 sq ft)</td>
<td>F1135-TC4B</td>
</tr>
<tr>
<td></td>
<td>Ipe*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mangaris*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ironwood*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 1 x 4 use only (not to be used on 1 x 6 dimensions)

If you are looking to install a board not listed on the chart above, please contact FastenMaster at 800·518·3569

ADDITIONAL RESOURCES
Ask the FastenMaster Installation Video
Our Ask the FastenMaster video series includes installation information for many of our products, including our Tiger Claw TC-1 Hidden Fastener for Softwood Decking video. These can be viewed on our website.

For technical support or to place an order: 800·518·3569 or www.FastenMaster.com
TRIO®
ULTIMATE DECK SCREW FOR SOFTWOODS

FEATURES

• For softwoods such as cedar, redwood and pressure treated decking
• Strip-out resistant #25 TORX® tap® drive system
• ThruPOINT™ resists splitting
• Corrosion and fade resistant
• Spotter™ Installation Guide creates consistent board gapping and fastener placement (available only on 350 pc bucket)

DESCRIPTION

TORX® tap® drive system offers stick-fit and wobble-free installation, virtually eliminating cam-out. The ThruPOINT™ bores a pilot hole during installation, eliminating the wedging effect and splitting. Unique fastener engineered to deliver a clean finished look, fade resistance and UV stability. ACQ approved. Proprietary plating and coating deliver corrosion resistance 2X better than standard deck screws.

TRIO Spotter™ Installation Guide. Much more than a lid, it is a tool engineered to increase fastener installation speed and accuracy.

LENGTHS:
2 1/2”, 3”

PACKAGING QUANTITIES
75 pc box, 350 pc bucket, 1,050 pc bucket

INSTALLATION PROCEDURE

Use a 0-1800 RPM variable speed corded drill, 18V cordless drill, or impact drill.
Install fastener in a continuous drive until head is flush. Install two screws at every joist. The TRIO Ultimate Deck Screw has been designed for three softwood decking applications:

Deck Surface 90° to joist: Position legs of spotter guide to straddle joist. Push guide flat to deck board surface, and drive TRIO screws through holes marked 90°.
Deck Surface 45° to joist: Position notch on spotter guide legs to sides of joist. Push guide flat to deck board surface, and drive TRIO screws through holes marked 45°.

Railing balusters: Set first baluster in place at center point of rail, drive the TRIO screws into both top and bottom. Position spotter guide legs against edge of baluster, position next baluster in place, using guide legs on opposite edge of guide for code-compliant baluster spacing. Using edge of lid as guide, draw a pencil line to show center of baluster, and install the TRIO screws at top and bottom of baluster.

Note: Guide legs act as deck board spacer. Refer to decking manufacturer’s installation instructions before installing FastenMaster TRIO Ultimate Deck Screw.

LIFETIME WARRANTY

TRIO is guaranteed for the life of the project. If you are ever dissatisfied with fastener performance, contact us for full reimbursement.

TRIO SKU Selection Guide

<table>
<thead>
<tr>
<th>SCREW LENGTH</th>
<th>PACKAGING QTY</th>
<th>COVERAGE</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/2”</td>
<td>25 pc box</td>
<td>20 sq ft</td>
<td>FMTRD212-75</td>
</tr>
<tr>
<td></td>
<td>350 pc bucket</td>
<td>100 sq ft</td>
<td>FMTRD212-350</td>
</tr>
<tr>
<td></td>
<td>1,050 pc bucket</td>
<td>300 sq ft</td>
<td>FMTRD212-1050</td>
</tr>
<tr>
<td>3”</td>
<td>75 pc box</td>
<td>20 sq ft</td>
<td>FMTRD003-75</td>
</tr>
<tr>
<td></td>
<td>350 pc bucket</td>
<td>100 sq ft</td>
<td>FMTRD003-350</td>
</tr>
<tr>
<td></td>
<td>1,050 pc bucket</td>
<td>300 sq ft</td>
<td>FMTRD003-1050</td>
</tr>
</tbody>
</table>

TRIO #25 TORX® tap® Driver Bits (2 PK) FMTTAPT25BIT-2PK

*Coverage based on 16” o.c. joist spacing 100 sq ft

ADDITIONAL RESOURCES

Ask the FastenMaster Installation Video
Our Ask the FastenMaster video series includes installation information for many of our products, including our TRIO Ultimate Deck Screw for the Ultimate Finished Look video. These can be viewed on our website.

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
TrapEase® 3
ULTIMATE DECK SCREW FOR PVC, CAPSTOCK AND COMPOSITES

FEATURES
- For PVC, capstock and composite decking
- Strip-out resistant #20 TORX® ttap® drive system
- Head painted to match board
- Corrosion and fade resistant
- Spotter™ Installation Guide creates consistent board gapping and fastener placement
  (available only on 350 pc bucket)

DESCRIPTION
TrapEase® 3 is the only fastener guaranteed to deliver an ultimate finished look in PVC, Capstock, and Composite decking. The TORX® ttap® drive system offers stick-fit and wobble-free installation, virtually eliminating fastener striping during installation or removal. TrapEase® 3 features a UV resistant head paint that will not fade for the life of the project – guaranteed.

LENGTHS: 2 1/2", 3"

PACKAGING QUANTITIES
75 pc box, 350 pc bucket, 1,050 pc bucket

INSTALLATION PROCEDURE
Use an 18V Cordless, impact drill, or 0-1800 RPM corded drill. Install the fastener in a continuous drive until the head is flush. Install two screws at every joist. Must install two screws per joist. Important Installation Information: Predrilling with a 1/8" diameter drill bit is required when fastening within 1" of end of board. This will prevent board splitting.

Deck Surface 90° to joist: Position legs of guide to straddle joist.
- Push guide flat to decking surface and drive TrapEase® 3 screws through hole marked 90°.

Deck Surface 45° to joist: Position notch on guide legs to sides of joists.
- Push guide flat to decking surface, and drive TrapEase® 3 screws through hole marked 45°.
- Note: Spotter Guide legs act as a 3/16" deck board spacer.

LIFETIME WARRANTY
TrapEase® 3 is guaranteed for the life of the project not to fade or rust.

AVAILABLE COLORS:

**Selecting SKU/Board Color**
When ordering, please combine SKU column with board manufacturer color key right.

Example: Trex Transcend 2 1/2", 150 pc box for Fire Pit = FMTR3-212-350TSFP
New board colors are always being added to the TrapEase® 3 product line. If the board color you are looking for is not listed on this page, consult our website for recent updates or call FastenMaster customer service.

Color Matching
FastenMaster has a color match for all leading deck board brands. Visit FastenMaster.com for a complete color match guide.

ADDITIONAL RESOURCES
Ask the FastenMaster Installation Video
Our Ask the FastenMaster video series includes installation information for many of our products, including our TrapEase® 3 Ultimate Composite Deck Screw video. These can be viewed on our website.

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
TrimTop™
STAINLESS STEEL COATED TRIM SCREW

FEATURES
- Sharp type 17 piercing point
- #8 gauge
- Deep square drive
- 305 Stainless offers guaranteed corrosion resistance
- No predrilling needed with cellular PVC decking
- Approved in ACQ

DESCRIPTION
TrimTop is a stainless steel coated trim screw engineered for use in PVC trim, PVC decking, as well as hardwoods such as cedar, ipe and mahogany. TrimTop screws are head-painted to match the decking or trim and are guaranteed not to rust for the life of the project.

PACKAGING QUANTITIES
75 pc box, 350 pc box, 1,050 pc bucket

LENGTHS: 1 5/8", 2 1/2"

INSTALLATION PROCEDURE
Install TrimTop using the square driver bit included in the packaging. Predrilling is typically not required for cellular PVC decking and trim, composite decking, and softwoods (cedar, PT).

It is recommended to predrill when fastening within 1 1/2" of end of any board. Predrilling and countersinking are required when fastening into hardwoods like ipe and mahogany, or fastening into frozen deck or joist boards. Use a 1/8" drill bit for the pilot hole with countersink.

LIFETIME WARRANTY
TrimTop is guaranteed for the life of the project not to fade or rust. Receive complete warranty details and information by calling a fastener expert at 800-518-3569.

**Selecting SKU/Board Color**
When ordering, please combine SKU column with board manufacturer color key.
Example: TrimTop 2 1/2", 350 piece for ACACIA = FMTT212-350AI

New board colors are always being added to the TrimTop product line. If the color you are looking for is not listed on this page, consult our website for recent updates or call FastenMaster customer service.

Color Matching
FastenMaster has a color match for all leading deck board brands. Visit FastenMaster.com for a complete color match guide.

AVAILABLE COLORS

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
GuardDog® EXTERIOR WOOD SCREW

FEATURES
- Versatile head style can be used with the PoziSquare™ drive, #2 square drive and Phillips drive
- Guaranteed corrosion resistance
- Color matched to blend in with pressure treated decking
- Approved in pressure treated decking
- Sharp threads quickly penetrate lumber
- Free PoziSquare bit included

DESCRIPTION
GuardDog is a versatile exterior wood screw used for a variety of applications. The PoziSquare drive eliminates stripping. Fully tested, fully guaranteed in ACQ, Cedar, Redwood and Copper Azole.

PACKAGING QUANTITIES
- 75 pc box, 350 pc box, 1,750 pc bucket, 1,350 pc bucket (3 1/2" only)

INSTALLATION PROCEDURE
Use a 0-1800 RPM variable speed drill (at least 14.4V if cordless). Install fastener perpendicular to deck, increasing drill speed as the screw threads into the deck. Slightly countersink. Do not overdrive. If cam-out occurs, remove and replace screw. Predrilling is recommended at all seam joints, when fastening within 1 1/2” of end of board, and when using hardwoods.

GUARANTEED CORROSION RESISTANCE
The GuardDog coating has been tested and approved for use in ACQ, Copper Azole pressure treated wood, cedar, and redwood applications. This fastener is guaranteed to protect against rust for the life of the project. Corrosion guarantee does not apply when the fastener is used within 1,000 ft. of saltwater or when de-icing salts will be in contact with decking. Use FastenMaster TrimTop for these applications.

GuardDog SKU Selection Guide

<table>
<thead>
<tr>
<th>SCREW LENGTH</th>
<th>PACKAGING QTY</th>
<th>COVERAGE</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 5/8&quot;</td>
<td>75 pc box</td>
<td>20 sq ft</td>
<td>FMGD158-75</td>
</tr>
<tr>
<td></td>
<td>350 pc box</td>
<td>100 sq ft</td>
<td>FMGD158-350</td>
</tr>
<tr>
<td></td>
<td>1,750 pc bucket</td>
<td>500 sq ft</td>
<td>FMGD158-1750</td>
</tr>
<tr>
<td>2&quot;</td>
<td>75 pc box</td>
<td>20 sq ft</td>
<td>FMGD002-75</td>
</tr>
<tr>
<td></td>
<td>350 pc box</td>
<td>100 sq ft</td>
<td>FMGD002-350</td>
</tr>
<tr>
<td></td>
<td>1,750 pc bucket</td>
<td>500 sq ft</td>
<td>FMGD002-1750</td>
</tr>
<tr>
<td>2 1/2&quot;</td>
<td>75 pc box</td>
<td>20 sq ft</td>
<td>FMGD212-75</td>
</tr>
<tr>
<td></td>
<td>350 pc box</td>
<td>100 sq ft</td>
<td>FMGD212-350</td>
</tr>
<tr>
<td></td>
<td>1,750 pc bucket</td>
<td>500 sq ft</td>
<td>FMGD212-1750</td>
</tr>
<tr>
<td>3&quot;</td>
<td>75 pc box</td>
<td>20 sq ft</td>
<td>FMGD003-75</td>
</tr>
<tr>
<td></td>
<td>350 pc box</td>
<td>100 sq ft</td>
<td>FMGD003-350</td>
</tr>
<tr>
<td></td>
<td>1,750 pc bucket</td>
<td>500 sq ft</td>
<td>FMGD003-1750</td>
</tr>
<tr>
<td>3 1/2&quot;</td>
<td>75 pc box</td>
<td>20 sq ft</td>
<td>FMGD312-75</td>
</tr>
<tr>
<td></td>
<td>350 pc box</td>
<td>100 sq ft</td>
<td>FMGD312-350</td>
</tr>
<tr>
<td></td>
<td>1,350 pc bucket</td>
<td>350 sq ft</td>
<td>FMGD312-1350</td>
</tr>
</tbody>
</table>

Driver bit for GuardDog w/ PoziSquare drive (2 included) FMPOZ12BIT-2PK

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
**HB220 PRO ADHESIVE APPLICATOR**

**FEATURES**
- Professional glue gun system
- Reaches maximum temperature in 5 minutes or less
- Adjustable High Temperature 285°F - 428°F (140°C – 220°C)
- Powerful 220 Watt heating element designed for fast, continuous use
- Proprietary Drip-Free Nozzle
- Adjustable trigger maximizes output and reduces fatigue
- Includes hard storage case

**DESCRIPTION**
The HB220 is not your typical glue gun – it is a professional grade adhesive system designed for all day use in a variety of flooring installation, remodeling, and repair applications including carpet tack strip installation, hardwood flooring start and finish rows, floor transition strips, interior wood trim, moldings, ceramic tile repair, and more. The HB220 Pro Applicator combines an adjustable high temperature range with a powerful 220 Watt heating element that keeps up with heavy all day usage.

**INSTALLATION PROCEDURE**
The HB220 tool temperature is preset. Turn it on, and allow 5 minutes for the tool to reach operating temperature, load adhesive into the chamber, pull the trigger to apply adhesive.

**FLEX™40 HOT MELT CONSTRUCTION ADHESIVE**

**FEATURES**
- For tack strips to concrete & more
- 40 seconds open (working) time
- Full strength bond in 5 minutes
- Quick tack firmly holds materials in place while bond solidifies

**DESCRIPTION**
FLEX delivers the speed and elasticity of hot melt adhesive with the strength of construction adhesive

**PACKAGING QUANTITIES**
90 lin ft, 18 sticks per box, 10 boxes per master carton

**FLEX™180 HOT MELT CONSTRUCTION ADHESIVE**

**FEATURES**
- For hardwood flooring and more
- 180 seconds open (working) time
- Full strength bond in 8 minutes
- Quick tack firmly holds materials in place while bond solidifies

**DESCRIPTION**
FLEX delivers the speed and elasticity of hot melt adhesive with the strength of construction adhesive

**PACKAGING QUANTITIES**
90 lin ft, 18 sticks per box, 10 boxes per master carton

**ADDITIONAL RESOURCES**
- Ask the FastenMaster Installation Video
- Our Ask the FastenMaster video series includes installation information for many of our products, including our FLEX Hot Melt Construction Adhesive video. These can be viewed on our website.

---

**FastenMaster. Pro Adhesive Applicator**

**FastenMaster. Hot Melt Construction Adhesive**
PAMFast™ AUTOFEED SCREW SYSTEM

FEATURES
- PAMFast drives productivity on the job site: faster installation and ergonomic, ease of use benefits
- Designed for subfloor, decking, drywall, and more
- No jams. No stripping out bits.
- Less reloading: 50 screws per collated strip
- PAMFast drives 3/4” - 3” screws

LENGTHS: 3/4”, 1”, 1 1/4”, 1 1/2”, 1 5/8”, 2”, 2 1/4”, 3”

PACKAGING QUANTITIES
50 screws per strip, 1,000 screws per box, 6 boxes per master carton

AUTOFEED TOOL
AutoFeed System Kit includes 1 PAMFast AutoFeed System, professional storage case, Allen Key Set, Phillips and PAMDrive bits

DESCRIPTION
The PAMFast AutoFeed Screw System is engineered to be smooth, fast, and easy for the Professional Contractor. Its simple but rugged design is built to last and delivers smooth, consistent screw driving every time.

INSTALLATION PROCEDURE
Set nose piece for length, runs 3/4” - 3” screws. Set countersink adjustment, precise 1/64” adjustment. Ball bearings locks in place throughout job. Insert Driver Bit. PAMDrive designed for superior engagement and extended life. Single piece bit drives thousands of screws before needing replacement.

One Tool. Multiple Uses!

PAMFast Fasteners and Tools Selection Guide

<table>
<thead>
<tr>
<th>TYPE</th>
<th>FASTENER</th>
<th>DIAMETER</th>
<th>THREAD</th>
<th>POINT</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECKING</td>
<td>#8</td>
<td>Coarse</td>
<td>X-point or Sharp Point</td>
<td>Copperhead Coating</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#10</td>
<td>Coarse</td>
<td>X-point</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#8, #10</td>
<td>Coarse</td>
<td>X-point or Type 17</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#10</td>
<td>Coarse</td>
<td>Dual Slant Point</td>
<td>Color Matched Head Paint</td>
<td></td>
</tr>
<tr>
<td>SUBFLOOR</td>
<td>#8</td>
<td>Single Coarse or Double Coarse “Fast”</td>
<td>Sharp</td>
<td>Yellow Zinc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#6, #7</td>
<td>Coarse</td>
<td>Sharp</td>
<td>Black Phosphate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#6</td>
<td>Fine</td>
<td>Sharp</td>
<td>Black Phosphate</td>
<td></td>
</tr>
<tr>
<td>CEMENT BOARD</td>
<td>#8</td>
<td>Coarse</td>
<td>Sharp</td>
<td>Copperhead Coating</td>
<td></td>
</tr>
<tr>
<td>ROOFING</td>
<td>#8</td>
<td>Coarse</td>
<td>Sharp</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#8</td>
<td>Coarse</td>
<td>Sharp</td>
<td>Dacro</td>
<td></td>
</tr>
</tbody>
</table>

SKU TOOL DESCRIPTION SKU TOOL DESCRIPTION
- SD-28-P13KU Long tool, runs 1”-3” screws, 2500 rpm Milwaukee screw gun
- SD-28-P13KU Long tool, runs 1”-3” screws, 2500 rpm Milwaukee screw gun
- SD-28-BD18K Short tool, runs 1”-2” screws, 2200 rpm, pneumatic
- SD-28-BD18K Short tool, runs 1”-3” screws, 2200 rpm, pneumatic
- SD-28-PCTC Cordless short tool, runs 1”-2” screws, 4000 rpm, Li Ion

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
OlyLog®
LOG HOME FASTENER

FEATURES
• Installs faster and easier than lags and spikes
• No predrilling
• Draws warped logs down
• Removable and reusable
• Eliminates jarring and damage caused by a sledgehammer

DESCRIPTION
OlyLog is the first threaded log home fastener which requires no predrilling and is ACQ approved.

INSTALLATION INSTRUCTIONS
Use a 1/2", high torque, low RPM drill. Install OlyLog perpendicular to the log. Countersink minimum of 1/4".

LENGTHS: 2 1/2", 4", 6", 8", 9", 10", 12", 14", 16"

PACKAGING QUANTITIES
250 pc box, 500 pc box (2 1/2" only)

LogHog®
HEAVY DUTY LOG HOME FASTENER

FEATURES
• Installs much faster and easier than lags and spikes
• Countersinks into log — allows log to settle naturally
• No predrilling
• Removable and reusable
• Eliminates jarring and damage caused by a sledgehammer
• Corrosion resistance guaranteed. ACQ Approved

DESCRIPTION
LogHog is an extra heavy-duty log home fastener, engineered for specific log home construction applications. The LogHog, with its oversized head, thicker diameter and additional thread, offers increased draw-down and holding power. This fastener is corrosion resistant guaranteed.

INSTALLATION INSTRUCTIONS
Use a ½", high torque, low RPM drill. Install LogHog perpendicular to the log. Countersink minimum of 1/4".

LENGTHS: 7", 9", 10", 11", 12", 13", 15"

PACKAGING QUANTITIES
150 pc box (15" only), 250 pc box

**OlyLog SKU Selection Guide**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>PACKAGING QTY</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/2&quot;</td>
<td>500 pc box</td>
<td>LOG212</td>
</tr>
<tr>
<td>4&quot;</td>
<td>250 pc box</td>
<td>LOG004</td>
</tr>
<tr>
<td>6&quot;</td>
<td>250 pc box</td>
<td>LOG006</td>
</tr>
<tr>
<td>8&quot;</td>
<td>250 pc box</td>
<td>LOG008</td>
</tr>
<tr>
<td>9&quot;</td>
<td>250 pc box</td>
<td>LOG009</td>
</tr>
<tr>
<td>10&quot;</td>
<td>250 pc box</td>
<td>LOG010</td>
</tr>
<tr>
<td>12&quot;</td>
<td>250 pc box</td>
<td>LOG012</td>
</tr>
<tr>
<td>14&quot;</td>
<td>250 pc box</td>
<td>LOG014</td>
</tr>
<tr>
<td>16&quot;</td>
<td>250 pc box</td>
<td>LOG016</td>
</tr>
</tbody>
</table>

**LogHog SKU Selection Guide**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>PACKAGING QTY</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>7&quot;</td>
<td>250 pc box</td>
<td>LHO07</td>
</tr>
<tr>
<td>9&quot;</td>
<td>250 pc box</td>
<td>LHO09</td>
</tr>
<tr>
<td>10&quot;</td>
<td>250 pc box</td>
<td>LHO10</td>
</tr>
<tr>
<td>11&quot;</td>
<td>250 pc box</td>
<td>LHO11</td>
</tr>
<tr>
<td>12&quot;</td>
<td>250 pc box</td>
<td>LHO12</td>
</tr>
<tr>
<td>13&quot;</td>
<td>250 pc box</td>
<td>LHO13</td>
</tr>
<tr>
<td>15&quot;</td>
<td>150 pc box</td>
<td>LHO15</td>
</tr>
</tbody>
</table>

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
GutterScrew
REPLACES OLD SPIKES

FEATURES
• Oversized thread diameter tightly fills the existing spike hole for better holding strength and a watertight fit
• #3 square drive virtually eliminates cam-out during hard-to-reach installations
• Durable UV resistant white and brown head paint matches most gutter systems
• Thick galvanized base coating guaranteed not to rust or react with aluminum
• Free driver bit included

DESCRIPTION
GutterScrew enables you to replace old popping gutter spikes. The super-sized threads are wider than spikes, creating a tight fit with unmatched holding power.

INSTALLATION PROCEDURE
For existing gutters installed using spikes, first remove the existing spike and ferrule. With a standard drill install the GutterScrew and ferrule using the #3 square drive bit provided. For new gutter installations, pre-drill a 1/4” hole with spacing as recommended by the gutter manufacturer. Then install the new gutter screw and ferrule as instructed above.

GUARANTEED CORROSION RESISTANCE
FastenMaster’s proprietary coating offers guaranteed corrosion resistant performance. No red rust for the life of your project guaranteed!

COLORS
Brown, White

LENGTH: 7”

PACKAGING QUANTITIES
10 pc clamshell, 25 pc box

GutterScrew SKU Selection Guide

<table>
<thead>
<tr>
<th>COLOR</th>
<th>PACKAGING QTY</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown</td>
<td>10 pc clamshell</td>
<td>FMGUT007-10BR</td>
</tr>
<tr>
<td>Brown</td>
<td>25 pc box</td>
<td>FMGUT007-25BR</td>
</tr>
<tr>
<td>White</td>
<td>10 pc clamshell</td>
<td>FMGUT007-10W</td>
</tr>
<tr>
<td>White</td>
<td>25 pc box</td>
<td>FMGUT007-25W</td>
</tr>
</tbody>
</table>

FASTENMASTER
TECHNICAL RESOURCES

FrameFAST® Wood Framing System .................................................. 43
TimberLOK® Heavy Duty Wood Screw ............................................. 45
HeadLOK® Heavy Duty Flathead Fastener ....................................... 47
LedgerLOK® Ledger Board Fastener ............................................... 48
FlatLOK® Structural Wood Screw ................................................. 49
ThruLOK® Through Bolt Replacement ............................................ 53
Lateral Tension System® Code Compliant Lateral Deck Attachment ........................................... 55
Reference Charts ........................................................................ 57
FRAMEFAST™ PRODUCT SPECIFICATION

**Head Height**
0.260 MAJOR
0.172 MINOR
7.5 TPI

**Part Length**
200

**Thread Length**
0.260 MAJOR

**FrameFAST Selection Guide**

<table>
<thead>
<tr>
<th>Part Length</th>
<th>Thread Length</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>6”</td>
<td>5”</td>
<td>FMFF006</td>
</tr>
</tbody>
</table>

**FrameFAST Sample Applications**

**Truss/Rafter to Top Plate Connection**
The FrameFAST fastener can be used as a direct replacement for most hurricane ties to resist uplift and lateral loads on trusses or rafters attached to the top plates of the wall. To verify the adequacy for your specific connection, make sure that the allowable loads in Table 1 exceed the design loads on the plan or allowable loads for the connector being specified. For complete installation instructions and additional technical information, consult the Truss and Rafter to Top Plate Technical Evaluation Report, TER No. 1503-03, available at www.FastenMaster.com.

**Table 1 Allowable Loads**

<table>
<thead>
<tr>
<th>Species</th>
<th>Uplift</th>
<th>Shear Perpendicular to Wall</th>
<th>Shear Parallel to Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPF / H. Fir</td>
<td>595</td>
<td>655</td>
<td>690</td>
</tr>
<tr>
<td>D. Fir</td>
<td>535</td>
<td>600</td>
<td>645</td>
</tr>
<tr>
<td>S. Pine</td>
<td>535</td>
<td>600</td>
<td>645</td>
</tr>
</tbody>
</table>

**Table 2 Allowable Loads (Values)**

<table>
<thead>
<tr>
<th>Species</th>
<th>Uplift</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPF / H. Fir</td>
<td>535 lbs</td>
</tr>
<tr>
<td>D. Fir</td>
<td>590 lbs</td>
</tr>
<tr>
<td>S. Pine</td>
<td>621 lbs</td>
</tr>
</tbody>
</table>

**Fastener Depth:**
The FrameFAST fastener is designed to be installed with the head either sunk flush with the wall framing or left up to 1/4” proud to allow for easier inspection when needed. To ensure a consistent and accurate fastener depth, ensure that the head of the FrameFAST tool is held flush to the top plate during installation. To adjust the tool for leaving the fastener head proud, simply reposition the Spacer Tab from the tool handle to the bottom of the hexagonal shaft.

**Over Studs and Headers:**
The FrameFAST fastener is designed to be used when the truss or rafter falls directly over a stud / header or in the cavity between studs. The FrameFAST tool is designed to deliver the fastener at the correct angle in order to ensure the proper angle as well as keep the fastener out of the way of the drywall. There are no reductions needed when the screw is used in the cavity vs over a stud.

**Girder Truss Applications:**
The FrameFAST fastener and tool can be used in multi ply girder applications. To use the tool simply articulate one of the metal alignment wings out of the way to make the head of the tool align with the truss. A reduction factor of 0.8 should be taken for each screw when installing in this application.

**Floor Truss Application:**
When plans call for an uplift connector on floor trusses the FrameFAST fastener and tool can be used to make this connection as well. In order to use the tool both of the alignment wings need to be in the down position. Make sure to center the tool under the bottom cord of the member.

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
TimberLOK® PRODUCT SPECIFICATION

**TIMBERLOK SAMPLE APPLICATIONS**

**Truss/Rafter to Top Plate Connection**

The 6" TimberLOK® can be used in many cases as a replacement for hurricane ties used to resist uplift and lateral loads on trusses and rafters attached to the top plates of the wall. To verify the adequacy for your specific connection, make sure the allowable loads in Table A exceed the design loads on the plan or allowable loads for the connector being specified. For instructions and additional technical information, consult the Truss and Rafter to Top Plate Technical Evaluation Report, TER No. 1105-02, available at www.FastenMaster.com.

**Table A**: Allowable Loads (160)

<table>
<thead>
<tr>
<th>Part Length</th>
<th>Thread Length</th>
<th>Head Markings</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/2&quot;</td>
<td>F2.5</td>
<td>FMTLOK212</td>
<td></td>
</tr>
<tr>
<td>4&quot;</td>
<td>F4.0</td>
<td>FMTLOK04</td>
<td></td>
</tr>
<tr>
<td>6&quot;</td>
<td>F6.0</td>
<td>FMTLOK06</td>
<td></td>
</tr>
<tr>
<td>8&quot;</td>
<td>F8.0</td>
<td>FMTLOK08</td>
<td></td>
</tr>
<tr>
<td>10&quot;</td>
<td>F10.0</td>
<td>FMTLOK10</td>
<td></td>
</tr>
</tbody>
</table>

**Table A Footnotes**

- A standard total load duration factor of 1.6 has been applied per NDS Table 2.3.3. Adjustments to lower this factor may be made at the engineers discretion. No further increase allowed.
- Assumes a nominal 2x truss chord installed over 2x rim, single or double top plate.
- For applications with members of different species, use the lowest allowable load to design the connection.
- Tabulated loads based on ICC-ES Report ESR #1078. Additional third party testing used to confirm values and adequacy of edge and end distances.

**Table B**: Allowable Loads (160)

<table>
<thead>
<tr>
<th>Uplift</th>
<th>Shear Parallel to Wall</th>
<th>Shear Perpendicular to Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPF H. Fir</td>
<td>D. Fir</td>
<td>S. Pine</td>
</tr>
<tr>
<td>410</td>
<td>510</td>
<td>570</td>
</tr>
</tbody>
</table>

**Table B Footnotes**

- A standard total load duration factor of 1.6 has been applied per NDS Table 2.3.3. Adjustments to lower this factor may be made at the engineers discretion. No further increase allowed.
- Assumes a nominal 2x truss chord installed over double top plate or 3" of solid wood.
- Assumes full thread penetration into wood rim board with a minimum 2" nominal thickness.
- A standard wind load duration factor of 1.6 has been applied per NDS Table 2.3.3. Adjustments to lower this factor may be made at the engineers discretion. No further increase allowed.
- Assumes a nominal 2x truss chord installed over 2x rim, single or double top plate.
- For applications with members of different species, use the lowest allowable load to design the connection.
- Tabulated loads based on ICC-ES Report ESR #1078. Additional third party testing used to confirm values and adequacy of edge and end distances.

**Table C**: Allowable Loads (160)

<table>
<thead>
<tr>
<th>Uplift</th>
<th>Shear Parallel to Wall</th>
<th>Shear Perpendicular to Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPF H. Fir</td>
<td>D. Fir</td>
<td>S. Pine</td>
</tr>
<tr>
<td>340</td>
<td>380</td>
<td>570</td>
</tr>
</tbody>
</table>

**Table C Footnotes**

- A standard total load duration factor of 1.6 has been applied per NDS Table 2.3.3. Adjustments to lower this factor may be made at the engineers discretion. No further increase allowed.
- Assumes full thread penetration into double top plate or 3" of solid wood.
- For applications with members of different species, use the lowest allowable load to design the connection.
- Tabulated loads based on ICC-ES Report ESR #1078. Additional testing to ASTM D-1761 used to confirm adequate minimum edge and end distances.

For technical support or to place an order: 800·518·3569 or www.FastenMaster.com
**Product Specification**

**HeadLOK**

**HeadLOK Application**

**Table A: Rigid Foam Application**

<table>
<thead>
<tr>
<th>Exterior Layer</th>
<th>Foam Thickness Inches</th>
<th>Max. Allowable (Gapping Height) to be Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>1.5</td>
<td>15</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>25</td>
</tr>
</tbody>
</table>

**Footnotes**

- Values above taken from ICC Evaluation Report ESR-9107
- Loads have not been increased to accommodate for NDS load durations or other factors
- Withdrawal values assume full thread penetration into main member
- Head pull through values assume 1 1/2" or greater side member under head
- Shear values assume a min. side member thickness of 1 1/2" & main member thickness of 2 1/2"

**HeadLOK Selection Guide**

- Fasteners should be installed in a staggered pattern at least 1 3/4" from top or bottom edge and 3 1/4" from end of the ledger and rim board
- Fasteners are limited to 6" and 9" intervals at top of ledger and rim boards

**Table B: Spacing between Fasteners - Inches**

- Fasteners should be installed in a staggered pattern at least 1 3/4" from top or bottom edge and 3 1/4" from end of the ledger and rim board
- Fasteners are limited to 6" and 9" intervals at top of ledger and rim boards

**Table C: Ledger to Rim Application**

- Fasteners should be installed in a staggered pattern at least 1 3/4" from top or bottom edge and 3 1/4" from end of the ledger and rim board
- Fasteners are limited to 6" and 9" intervals at top of ledger and rim boards

**Table D: Ledger to Rim Application**

- Fasteners should be installed in a staggered pattern at least 1 3/4" from top or bottom edge and 3 1/4" from end of the ledger and rim board
- Fasteners are limited to 6" and 9" intervals at top of ledger and rim boards
**FlatLOK Sample Applications**

### Multiple-Ply Engineered Wood Beam Connection

When joining together multiple plies of engineered wood together to act as a single beam, nailing patterns are typically aggressive, only satisfy up to three plies and require access to both sides. Through-bolts can be used to reduce the number of fasteners but require considerably more labor and cost to install.

The FlatLOK has been designed specifically to be installed from one side and to carry both top and side loads. Refer to the details below for common application guidelines. For more detailed design information, refer to Technical Evaluation Report, TER No. 1501-08 available at www.FastenMaster.com.

### Dimensional Lumber Selection Chart

<table>
<thead>
<tr>
<th>Part Length</th>
<th>Thread Length</th>
<th>Head Markings</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 7/8&quot;</td>
<td>1 3/4&quot;</td>
<td>F2.9</td>
<td>FMFL278</td>
</tr>
<tr>
<td>3 1/2&quot;</td>
<td>2&quot;</td>
<td>F3.5</td>
<td>FMFL312</td>
</tr>
<tr>
<td>4&quot;</td>
<td>2&quot;</td>
<td>F4.0</td>
<td>FMFL004</td>
</tr>
<tr>
<td>4 1/2&quot;</td>
<td>2&quot;</td>
<td>F4.5</td>
<td>FMFL412</td>
</tr>
<tr>
<td>5&quot;</td>
<td>2&quot;</td>
<td>F5.0</td>
<td>FMFL005</td>
</tr>
<tr>
<td>6&quot;</td>
<td>2&quot;</td>
<td>F6.0</td>
<td>FMFL006</td>
</tr>
<tr>
<td>6 3/4&quot;</td>
<td>2&quot;</td>
<td>F6.7</td>
<td>FMFL008</td>
</tr>
</tbody>
</table>

### Multi-Ply Wood Truss Connection

Multiple roof trusses coupled together, commonly referred to as girder trusses, are used to address increased loads concentrated or uniformly applied to roof framing members. Nails are typically used to join these plies but can loosen during the truss installation process. Bolts are another option but require significantly more installation time and expense. The FlatLOK, installed from one side for up to four plies, makes this task easier and stronger than the other options. A design professional should be consulted to determine the proper fastener placement using the Allowable Load Table B. For more detailed information, consult the TER 1501-08 available at www.FastenMaster.com.

### Table A Uniform Side Load Capacity (plf) Engineered Beam

<table>
<thead>
<tr>
<th>Rows Spacing</th>
<th>Detail A</th>
<th>Detail B</th>
<th>Detail C</th>
<th>Detail D</th>
<th>Detail E</th>
<th>Detail F</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 24</td>
<td>660</td>
<td>490</td>
<td>490</td>
<td>440</td>
<td>460</td>
<td>440</td>
</tr>
<tr>
<td>2 16</td>
<td>740</td>
<td>660</td>
<td>990</td>
<td>990</td>
<td>990</td>
<td>990</td>
</tr>
<tr>
<td>2 12</td>
<td>1110</td>
<td>980</td>
<td>880</td>
<td>1220</td>
<td>880</td>
<td>1220</td>
</tr>
<tr>
<td>3 16</td>
<td>1110</td>
<td>980</td>
<td>1110</td>
<td>990</td>
<td>1480</td>
<td>990</td>
</tr>
<tr>
<td>3 12</td>
<td>1480</td>
<td>1480</td>
<td>1480</td>
<td>1320</td>
<td>1990</td>
<td>1320</td>
</tr>
<tr>
<td>4 12</td>
<td>1480</td>
<td>1970</td>
<td>1970</td>
<td>1760</td>
<td>2840</td>
<td>1760</td>
</tr>
</tbody>
</table>

### Table B Allowable Load Capacity (plf) Dimensional Beam

#### Spruce-Pine-Fir

<table>
<thead>
<tr>
<th>Rows Spacing</th>
<th>Detail A</th>
<th>Detail B</th>
<th>Detail C</th>
<th>Detail D</th>
<th>Detail E</th>
<th>Detail F</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 24</td>
<td>400</td>
<td>300</td>
<td>270</td>
<td>2 24</td>
<td>520</td>
<td>390</td>
</tr>
<tr>
<td>2 16</td>
<td>520</td>
<td>450</td>
<td>400</td>
<td>2 16</td>
<td>780</td>
<td>580</td>
</tr>
<tr>
<td>2 12</td>
<td>780</td>
<td>740</td>
<td>690</td>
<td>2 12</td>
<td>1040</td>
<td>990</td>
</tr>
<tr>
<td>3 16</td>
<td>970</td>
<td>870</td>
<td>790</td>
<td>3 16</td>
<td>1350</td>
<td>970</td>
</tr>
<tr>
<td>3 12</td>
<td>1200</td>
<td>1160</td>
<td>1040</td>
<td>3 12</td>
<td>1740</td>
<td>1160</td>
</tr>
<tr>
<td>4 12</td>
<td>1600</td>
<td>1560</td>
<td>1390</td>
<td>4 12</td>
<td>2080</td>
<td>1560</td>
</tr>
</tbody>
</table>

#### Douglas-Fir

<table>
<thead>
<tr>
<th>Rows Spacing</th>
<th>Detail A</th>
<th>Detail B</th>
<th>Detail C</th>
<th>Detail D</th>
<th>Detail E</th>
<th>Detail F</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 24</td>
<td>520</td>
<td>450</td>
<td>400</td>
<td>2 24</td>
<td>580</td>
<td>430</td>
</tr>
<tr>
<td>2 16</td>
<td>780</td>
<td>650</td>
<td>580</td>
<td>2 16</td>
<td>870</td>
<td>650</td>
</tr>
<tr>
<td>2 12</td>
<td>1040</td>
<td>870</td>
<td>790</td>
<td>2 12</td>
<td>1390</td>
<td>870</td>
</tr>
<tr>
<td>3 16</td>
<td>1350</td>
<td>1200</td>
<td>1160</td>
<td>3 16</td>
<td>1740</td>
<td>1160</td>
</tr>
<tr>
<td>3 12</td>
<td>1740</td>
<td>1560</td>
<td>1390</td>
<td>3 12</td>
<td>2120</td>
<td>1560</td>
</tr>
</tbody>
</table>

### Table B Footnotes

- Values above calculated using individual FlatLOK properties taken from testing to ICC-ES Acceptance Criteria AC233
- Loads have not been increased to accommodate for NDS load duration or other factors
FLATLOK SAMPLE APPLICATIONS

Ledger to Stud Configurations

Ledgers are used for interior construction to support corridor floor spans and stairwell landings. In most cases these are installed over layers of gypsum to achieve the appropriate fire rating and then into vertical studs. These unique conditions require a tested solution that considers both the cantilevered portion of the fastener and narrower edge of the framing used to make this connection. The FlatLOK has been evaluated and loads determined for this specific application when installed in accordance with the details below.


<table>
<thead>
<tr>
<th>2 x 6 Ledger</th>
<th>2 x 8 Ledger</th>
<th>2 x 10 Ledger</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Gypsum</td>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
<tr>
<td>1 Large Gypsum</td>
<td><img src="image3" alt="Diagram" /></td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
<tr>
<td>2 Large Gypsum</td>
<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
</tr>
</tbody>
</table>

Table C: Allowable Load per Stud Connection (lbs)

<table>
<thead>
<tr>
<th>Approved FlatLOK Length</th>
<th>Ledger Size</th>
<th>Wood Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>4” 4-1/2” 5”</td>
<td>Fasteners per Stud</td>
<td>SPF</td>
</tr>
<tr>
<td>2 x 6</td>
<td>2</td>
<td>360</td>
</tr>
<tr>
<td>2 x 8</td>
<td>2</td>
<td>500</td>
</tr>
<tr>
<td>2 x 10</td>
<td>3</td>
<td>805</td>
</tr>
</tbody>
</table>

Footnotes:
- Values taken from Technical Report TER #1611-01
- Loads apply where ledger is applied up to two layers of 5/8” gypsum
- Additional fasteners and closer patterns other than those listed not allowed as they may induce splitting
- Where ledger and stud materials differ in species, use the lower density wood values

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
PRODUCT SPECIFICATION

ThruLOK

• Shear and withdrawal values assume a minimum side member thickness of 1 1/2”
• Withdrawal & head pull through values assume fastener threaded into nut at least to “Min Line”
• Loads have not been increased to accommodate for NDS load durations or other factors
• Values above taken from ICC Evaluation Report ESR #1078

Footnotes

HEAD HEIGHT

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6 1/4”</td>
<td>4 1/2”</td>
<td>5 1/4”</td>
<td>FT6.2</td>
<td>FMTBH644</td>
</tr>
<tr>
<td>7”</td>
<td>5 1/4”</td>
<td>6”</td>
<td>FT7.0</td>
<td>FMTBH707</td>
</tr>
<tr>
<td>8”</td>
<td>6 1/4”</td>
<td>7”</td>
<td>FT8.0</td>
<td>FMTBH808</td>
</tr>
<tr>
<td>9 1/2”</td>
<td>7 3/4”</td>
<td>8 1/2”</td>
<td>FT9.5</td>
<td>FMTYR912</td>
</tr>
</tbody>
</table>

ThruLOK Application Guide

| Application Thickness | Part Length Minimum Maximum Head Markings Part Number |
|---|---|---|---|
| 1” | 20 to 64 | 90° | 3 ply EW |
| 2” | 20 to 64 | 90° | 3 ply EW |
| 4” | 20 to 64 | 90° | 3 ply EW |
| 6” | 20 to 64 | 90° | 3 ply EW |

ThruLOK Allowable Loads

<table>
<thead>
<tr>
<th>Withdrawal &amp; Head Pull Through</th>
<th>Perpendicular to Grain</th>
<th>Parallell to Grain</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPF/H.Fir</td>
<td>D Fir</td>
<td>5/16”</td>
</tr>
<tr>
<td>680</td>
<td>900</td>
<td>1060</td>
</tr>
</tbody>
</table>

Footnotes

• Values above calculated using individual ThruLOK values from ICC Evaluation Report ESR #1078
• Assumed loads of 10 plf for Bottom Chord (BC) Live and 5 plf BC Dead added to snow loads
• Maximum column spacing of 8’ on center with trusses beam columns resting atop column
• Table to be used as a guide only. Refer to TER 1308-11 for complete instructions & restrictions

ThruLOK SAMPLE APPLICATIONS

Pole Barn Header Connection

A typical detail in pole barn construction consists of 2x beams mounted to face or faces of 6x columns. Prefabricated trusses are then placed atop these beams. Bolting of the connections between column and beam(s) has become more common and in some states required by code. When properly installed, the ThruLOK Fastener can replace bolts. For instructions and additional technical information, consult the Pole Barn Header Connection Technical Evaluation Report, TER 1308-11, available at www.FastenMaster.com.

Deck Carrying Beam Connection

A common method of deck construction allows for carrying beams and notched 6x6 support posts to be bolted together using 1/2” or 5/8” through bolts. According to current code, “where posts and beam or girders construction is used to support floor framing, positive connections shall be provided to ensure against uplift and lateral displacement.” When installed correctly, the 7” ThruLOK restrains against both of these forces equal to traditionally bolted connections with a faster and easier method of installation. For proper installation instructions including engineered solutions for the most common post to carrying beam configurations, refer to the Deck Carrying Beam to Support Post technical bulletin, at www.FastenMaster.com.

Deck Rail Post Connection

Current building code requires that guardrails and handrails must be designed to withstand a single concentrated load of 200 pounds in any direction. A critical part of this connection is making a strong tension connection between the guardrail post and the rim board of the deck. In most cases, 1/2” through-bolts or carriage bolts are used to make this connection. When installed as shown in our instructions, the ThruLOK offers a faster and easier method to meet the 200 pound design load for this part of the connection. For proper installation instructions including engineered solutions for the most common post to rim configurations, refer to the Deck Hand Rail Post to Rim Joint technical bulletin, at www.FastenMaster.com.

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com
LATERAL TENSION SYSTEM SAMPLE APPLICATIONS

Select the appropriate ledger alignment condition. A through E, based on the orientation of the deck ledger to house framing member that applies to your specific deck. For instructions and additional technical information, consult the Lateral Tension System Technical Evaluation Report, available at www.FastenMaster.com.

LATERAL TENSION SYSTEM SAMPLE APPLICATIONS

The 2015 code introduced a much easier and less invasive alternative method. This newest version allows for tension ties to be attached to the deck joist then fastened directly to an interior sill plate, wall plate or stud – all from the outside. These lateral connections must be designed to resist 750 pounds in tension and installed in four locations along the length of the ledger: one within 2’ of each end of the ledger with two more evenly spaced between (see sample below). The FastenMaster (LTS) is a complete system designed to transfer the lateral forces on an exterior deck when attached to the wood frame of a structure. When installed per the enclosed instructions these connections meet the lateral load requirement in Section R507 of the International Residential Code.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Deck Ledger Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Wall Stud In Line with Deck Joist</td>
</tr>
<tr>
<td>B</td>
<td>Sill Plate or Wall Plate Directly Below Ledger</td>
</tr>
<tr>
<td>C</td>
<td>Sill Plate or Wall Plate 1½”- 6” Below Ledger</td>
</tr>
<tr>
<td>D</td>
<td>Wall Stud In Line with Deck Joist</td>
</tr>
<tr>
<td>E</td>
<td>Sill Plate or Wall Plate Behind Ledger</td>
</tr>
</tbody>
</table>

For technical support or to place an order: 800·518·3569 or www.FastenMaster.com
The following tables are taken from ICC-ES ESR-1078 Evaluation Report. These can be used for reference when designing connections other than those described in the preceding pages. Please refer to the full report for additional information including conditions of use and minimum edge and end distances. This can be found at www.FastenMaster.com or www.icc-es.org.

Table 1 Reference Withdrawal Design Values (W)1,2,3

<table>
<thead>
<tr>
<th>Fastener</th>
<th>Minimum Side Member Thickness (inches)</th>
<th>W (lb/ft./ha) for Specific Gravities of:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SI:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z7</td>
</tr>
<tr>
<td>OlyLog/TimberLOK</td>
<td>1.5</td>
<td>220</td>
</tr>
<tr>
<td>HeadLOK</td>
<td>1.5</td>
<td>650</td>
</tr>
<tr>
<td>LedgerLOK/LogHog</td>
<td>1.5</td>
<td>320</td>
</tr>
<tr>
<td>ThruLOK6</td>
<td>1.5</td>
<td>1140</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm, 1 lbf/ft. = 175 N/m².
Reference withdrawal design values must be multiplied by all applicable adjustment factors, in accordance with Section 4.1.

Table 2 Reference Head Pull-Through Design Values (P)1,2

<table>
<thead>
<tr>
<th>Fastener</th>
<th>Minimum Side Member Thickness (inches)</th>
<th>P (lb) for Specific Gravities of:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SI:</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.46</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.42</td>
</tr>
<tr>
<td>OlyLog/TimberLOK</td>
<td>1.5</td>
<td>220</td>
</tr>
<tr>
<td>HeadLOK</td>
<td>1.5</td>
<td>650</td>
</tr>
<tr>
<td>LedgerLOK/LogHog</td>
<td>1.5</td>
<td>320</td>
</tr>
<tr>
<td>ThruLOK6</td>
<td>1.5</td>
<td>1140</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm, 1 lbf/ft. = 4445 kN/m.
Reference head pull-through design values, P, must be multiplied by all applicable adjustment factors, in accordance with Section 4.1.

Table 3 Reference Lateral Design Values (Z)1,2,3 for Single Shear (Two Member) Wood-to-Wood Connections Loaded Parallel (ZII) or Perpendicular (ZI) to the Grain

<table>
<thead>
<tr>
<th>Fastener</th>
<th>Designation Length (inches)</th>
<th>Minimum Main Member Thickness, t, (inches)</th>
<th>Minimum Main Member Penetration, p (inches)</th>
<th>Z1 (lb) for Minimum Specific Gravities of:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>SI:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.50</td>
<td>0.46</td>
<td>0.42</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z1</td>
<td>Z2</td>
<td>Z3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z4</td>
<td>Z5</td>
<td>Z6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z7</td>
<td>Z8</td>
<td></td>
</tr>
<tr>
<td>OlyLog/TimberLOK</td>
<td>2 1/2</td>
<td>1 1/2</td>
<td>1</td>
<td>240</td>
</tr>
<tr>
<td></td>
<td>6 &amp; longer</td>
<td>2 1/2</td>
<td>2 1/2</td>
<td>280</td>
</tr>
<tr>
<td></td>
<td>8 &amp; longer</td>
<td>2 1/2</td>
<td>3 1/2</td>
<td>290</td>
</tr>
<tr>
<td>HeadLOK</td>
<td>2 7/8</td>
<td>1 1/2</td>
<td>1 3/8</td>
<td>210</td>
</tr>
<tr>
<td></td>
<td>4 1/2</td>
<td>1 1/2</td>
<td>3</td>
<td>260</td>
</tr>
<tr>
<td></td>
<td>6 &amp; longer</td>
<td>4 1/2</td>
<td>4 1/2</td>
<td>320</td>
</tr>
<tr>
<td></td>
<td>8 &amp; longer</td>
<td>3</td>
<td>5</td>
<td>260</td>
</tr>
<tr>
<td>LedgerLOK</td>
<td>3 5/8</td>
<td>1 1/2</td>
<td>2 1/2</td>
<td>210</td>
</tr>
<tr>
<td></td>
<td>3 5/8</td>
<td>1 1/2</td>
<td>3 1/2</td>
<td>270</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1 1/2</td>
<td>3 1/2</td>
<td>320</td>
</tr>
<tr>
<td></td>
<td>9 &amp; longer</td>
<td>3</td>
<td>5</td>
<td>260</td>
</tr>
<tr>
<td></td>
<td>3 7/8</td>
<td>1 1/2</td>
<td>3 1/2</td>
<td>270</td>
</tr>
<tr>
<td></td>
<td>5 1/2</td>
<td>1 1/2</td>
<td>3 1/2</td>
<td>320</td>
</tr>
<tr>
<td></td>
<td>8 1/4</td>
<td>1 1/2</td>
<td>5</td>
<td>310</td>
</tr>
<tr>
<td></td>
<td>8 1/4</td>
<td>3 1/4</td>
<td>4 1/4</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>8 1/4</td>
<td>3 1/4</td>
<td>4 1/2</td>
<td>350</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm, 1 lbf/in = 4445 N/m².
Tabled reference lateral design values, Z, apply to single shear (two-member) connections with wood main and side members having specific gravity as shown, in which the screw is oriented perpendicular to the grain and loaded laterally either parallel or perpendicular to the grain. For connections in which the main and side member have different specific gravities, use the lower of the two. Gaps are not permitted between the main and side members.

For technical support or to place an order: 800-518-3569 or www.FastenMaster.com