WHY THE SOLAR INDUSTRY WILL ONLY USE MICROFLASHING® IN THE FUTURE
Rick Gentry
EXECUTIVE VP

ABOUT ME
• 30 years working at Quickscrews
• First Employee Hired by Quickscrews
• Fastener salesman for 34 years
• Pioneer of QuickBOLT in 2009
• Sales Consultant
• Product Development
• Marketing Strategies
WHO IS QUICKBOLT?
WHO IS QUICKBOLT?

- Asphalt Shingle
- All Tile
- Curved Tile
- Flat Tile
- Stone Coated Steel
- Metal
WHY?
MOVING TOWARDS MICROFLASHING®:
THE EVOLUTION OF RESIDENTIAL ROOF FLASHING
Flash•ing

/flaSH•iNG/
noun

a piece of material used to stop water from penetrating the junction of a roof with another surface
FLASHING CODES

AHJ
(AUTHORITY HAVING JURISDICTION)
FLASHING CODES

AHJ
(AUTHORITY HAVING JURISDICTION)

ICC
INTERNATIONAL CODE COUNCIL)
FLASHING CODES

ICC
(INTERNATIONAL CODE COUNCIL)

IBC
(INTERNATIONAL BUILDING CODE)

IRC
(INTERNATIONAL RESIDENTIAL CODE)
1503-2 (IBC) & R903-2 (IRC)
Flashing shall be installed in such a manner so as to prevent moisture entering the wall and roof through joints in copings, through moisture-permeable materials and at intersections with parapet walls and other penetrations through the roof plane.
Asphalt shingles shall have the minimum number of fasteners required by the manufacturer.
Components used to weatherproof or seal roof system edges at perimeters, penetrations, walls, expansion joints, valleys, drains and other places where the roof covering is interrupted or terminated.
FLASHING BEST PRACTICES

ARMA
(ASPHALT ROOFING MANUFACTURERS ASSOCIATION)
FLASHING BEST PRACTICES

UL
(UNDERWRITER'S LABORATORY)
ALUMINUM FLASHING

WHAT IS ALUMINUM FLASHING?

• "Traditional" flashing system
• 12" x 12" sheet of aluminum
• Redirects water runoff on pitched roofs
ALUMINUM FLASHING

HOW IS IT INSTALLED?

- Pry shingles apart at seam
- Lift shingles
- Remove obstructions (nails, staples, etc.)
- Arc of sealant around penetration
- Install L-Foot
- Place flashing over penetration & under shingles
ALUMINUM FLASHING

PROS

• Been around for a long time
• Malleable and lightweight
• Can be cut to smaller sizes
• $
ALUMINUM FLASHING

**CONS**

- Risk voiding roofing warranty
- Risk breaking code
- Breaking shingles
- Bulky
- Hard to work with
- Time consuming installation
GALVANIZED FLASHING
GALVANIZED FLASHING

WHAT IS GALVANIZED FLASHING?
- 9" x 12" sheet of Galvanized Steel
- Redirects water runoff on pitched roofs
GALVANIZED FLASHING

HOW IS IT INSTALLED?

- Pry shingles apart at seam
- Lift shingles
- Remove obstructions (nails, staples, etc.)
- Arc of sealant around penetration
- Install L-Foot
- Place flashing over penetration & under shingles
GALVANIZED FLASHING

PROS

• Easier to install than Aluminum
• Less expensive than Aluminum
GALVANIZED FLASHING

CONS

• Risk voiding roofing warranty
• Risk breaking code
• Breaking shingles
• Bigger and Bulkier
• Can't be resized
• Time consuming installation
• Can rust
1900's  1980's  2008  2012  TODAY

RUBBER BUSHED FLASHING
WHAT IS RUBBER BUSHED FLASHING?

• 7" x 12" sheet
• Aluminum with Rubber EPDM
• Seals against the mount to keep water from entering the penetration
**HOW IS IT INSTALLED?**

- Pry shingles apart at seam
- Lift shingles
- Remove obstructions (nails, staples, etc.)
- Arc of sealant around penetration
- Install L-Foot
- Place flashing over penetration & under shingles

**RUBBER BUSHED FLASHING**
**PROS**

- Truly watertight seal
**CONS**

- Risk voiding roofing warranty
- Risk breaking code
- Breaking shingles
- Bulky
- Time consuming installation
WHAT IS ELEVATED FLASHING?

- 9" x 12" sheet of aluminum
- Raised section keeps water from running over the penetration
**HOW IS IT INSTALLED?**

- Pry shingles apart at seam
- Lift shingles
- Remove obstructions (nails, staples, etc.)
- Arc of sealant around penetration
- Install L-Foot
- Place flashing over penetration & under shingles

**ELEVATED FLASHING**
PROS

• More water resistant than traditional
**CONS**

- Risk voiding roofing warranty
- Risk breaking code
- Breaking shingles
- Bulky
- Time consuming installation
- $$$

**ELEVATED FLASHING**
WHAT IS MICROFLASHING®?

- 3" or 4" compression washer
- Stainless Steel backed EPDM
- Hanger bolt compresses the washer onto the roof
- 100% watertight seal
**HOW IS IT INSTALLED?**

- Place on top of shingle
- Drive bolt into joist
**PROS**

- Fastest installation time
- Smallest & easiest to work with
- No risk of voiding warranty
- No risk of breaking code
- 100% leakproof
- 25-year warranty
- Most cost-effective
- UL Certified
**CONS**

- "Traditionalists"
- Possible room for error
LAYERS OF PROTECTION
Low Profile QuickBOLT with Microflashing®
LAYERS OF PROTECTION
Low Profile QuickBOLT with Microflashing®

EPDM COMPATABLE SEALANT

We recommend that sealant is inserted into the predrilled hole to fill the penetration and ensure that the Microflashing® adheres completely to the roof.
LAYERS OF PROTECTION
Low Profile QuickBOLT with Microflashing®

MICROFLAShING®
Our innovative Microflashing® is placed over the predrilled hole with sealant to flash the penetration
LAYERS OF PROTECTION
Low Profile QuickBOLT with Microflashing®

QUICKBOLT COLLAR
The collar of the QuickBOLT compresses the Microflashing® to create a leak-proof seal
LAYERS OF PROTECTION
Low Profile QuickBOLT with Microflashing®
L-FOOT

The L-Foot is placed over Collar and tightened down with a Nut to sit flush, further ensuring that no water will even come close to the penetration.
LAYERS OF PROTECTION
Low Profile QuickBOLT with Microflashing®

OVER 600,000 QUICKBOLTS INSTALLED
0 LEAKS
The 6mm External Hex Drive is designed to ease the ability to drive a large diameter product by reducing wobble and creating a more stable driving environment.

Use our 6mm Hex Driver - 15437
MACHINE THREAD

The Machine Thread provides an adjustable height for attaching the L-Foot and Flange Nuts.
When driven, the Collar compresses the Microflashing® and seals the penetration on the roof.
SMOOTH SHANK

If the bolt misses the joist, the smooth shank will spin, notifying the installer.
The wider thread pattern allows the bolt to be driven faster while maintaining excellent holding power.
The Type 17 Point allows debris to ride up the shank and out of the hole, which prevents the joist from splitting.
SIDE MOUNT
ADJUSTABLE
MICROFLASHING® SIZES AVAILABLE

17724SS
17672SS

ASPHALT SHINGLE
ASPHALT SHINGLE

SIDE MOUNT

LOW PROFILE

MICROFLASHING® SIZES AVAILABLE

17721SS

17667SS
ASPHALT SHINGLE ROOF MOUNTS
ALL TILE ROOF MOUNTS
CURVED TILE
FLAT TILE
SIDE MOUNT
BOTTOM MOUNT
ADJUSTABLE
5/16" 1/4"
SCREW KITS AVAILABLE

17585
17578
17700
CURVED TILE ROOF MOUNTS
CURVED TILE
SIDE MOUNT
5/16"
SCREW KITS AVAILABLE

ADJUSTABLE

BOTTOM MOUNT
1/4"

ADJUSTABLE SCREW KITS AVAILABLE

17516
17568
17574
CLAY TILE
ADJUSTABLE
SIDE MOUNT
BOTTOM MOUNT
SCREW KITS AVAILABLE

ADJ

17520

17524
CURVED TILE

SIDE MOUNT

BOTTOM MOUNT

SCREW KITS AVAILABLE

17508

17510

17706
FLAT TILE

SIDE MOUNT

BOTTOM MOUNT

SCREW KITS AVAILABLE

17540

17544
FLAT TILE  HEAVY DUTY
SIDE MOUNT  BOTTOM MOUNT

SCREW KITS AVAILABLE

HEAVY DUTY

17632

17638
## FLAT TILE ROOF HOOK vs. [HD+] HEAVY DUTY FLAT TILE ROOF HOOK

<table>
<thead>
<tr>
<th>Hook Type</th>
<th>Hook Thickness</th>
<th>Span Length</th>
<th>Average Maximum Compression Load (LBS.)</th>
<th>Average Maximum Tensile Load (LBS.)</th>
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<tbody>
<tr>
<td>Flat Tile Roof Hook</td>
<td>5mm</td>
<td>4ft.</td>
<td>141</td>
<td>203</td>
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<tr>
<td>[HD+] Flat Tile Roof Hook</td>
<td>7mm</td>
<td>6ft.</td>
<td>691</td>
<td>2222</td>
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STONE COATED STEEL ROOF MOUNTS
SIDE MOUNT  
BOTTOM MOUNT

STONE COATED  
STEEL

SCREW KITS AVAILABLE

17536

17620

17626
GALVA FLASHING OPTIONS

15890

ALL TILE MOUNTS
CURVED TILE MOUNTS

15991

FLAT TILE MOUNTS
STONE COATED STEEL MOUNTS
OVERVIEW

QUICKBOLT: WHO ARE WE?

MOVING TOWARDS MICROFLASHING®

LAYERS OF PROTECTION: LOW PROFILE QUICKBOLT WITH MICROFLASHING®

QUICKBOLT BREAKDOWN

MOUNTING SOLUTIONS: FOR ASPHALT SHINGLE, TILE, AND STONE COATED STEEL ROOFS