BoltSeal™

DITCH THE GOOP
Stuart Tinker
OUTSIDE SALES - EAST
• 9+ years working at Quickscrews
• Simple living, outdoorsy guy
• Hobbies: rafting, modifying cars and trucks

Dylan Matthews
DIGITAL MARKETING SPECIALIST
• 1+ years working at Quickscrews
• Loves basketball
• Loves talking about renewable energy
WHO IS QUICKBOLT?

the Original Top Mount Company
THE PIONEERS OF QUICKBOLT

Greg Wiener
CEO

Stuart Zins
SENIOR SALES & CUSTOMER SERVICE

Rick Gentry
VP SALES
TRADITIONAL FLASHING
What pains come with using traditional flashing?
INSTALLING SHEET METAL FLASHING

- Pry shingles
- Carefully place flashing
- Goop everywhere
- Hope they aren't damaged
TRADITIONALLY FLASHED L-FOOT

17713SS

17717SS
TRADITIONALLY FLASHED L-FOOT

17713SS

17717SS
WHAT IS MICROFLASHING?

- 3" or 4" washer
- Stainless Steel backed by EPDM
- Uses BoltSeal™ to form a compression-seal with the roof
- Over 2 million installed on roofs over 9 years - with zero reported leaks
Have you used Top Mounting solutions before?
What are some advantages to mounting over the shingle?
Drawbacks of mounting over the shingle?
FLASHING CODES

AHJ
(AUTHORITY HAVING JURISDICTION)

ICC
(INTERNATIONAL CODE COUNCIL)
FLASHING CODES

ICC
INTERNATIONAL CODE COUNCIL

IBC
INTERNATIONAL BUILDING CODE

IRC
INTERNATIONAL RESIDENTIAL CODE
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.
1507-2-7
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.
The Original Top Mount Line: Quickbolts

- Height Adjustable QB1
  - height adjustment
  - quick install
  - easy to carry

- Low Profile QB1
  - fewer parts
  - quicker install
  - centered L-Foot slot

- Dark Mode QB2
  - fewest parts
  - quickest install
  - no goop required
TOP MOUNT SOLUTIONS
FOR ASPHALT SHINGLE, EPDM, & TPO ROOFS
HEIGHT ADJUSTABLE QB1

SEALANT REQUIRED

BoltSeal™ mechanical compression-sealing technology

Patent #8448407
QB1 WITH MICROFLASHING®

Released 2012

Allows installers to install over the shingle, saving time and money

Offered in 7", 8", and 9" lengths for AHJ requirements, multiple roof layers, deeper rafters, etc. (Extra length is below the collar)

Height adjustable to allow for more airflow under the panels

Offset L-Foot for easy install

Microflash® completely code-compliant
QB1 WITH MICROFLASHING®

Released 2012

17672SS

3” Microflashing®

17724SS

4” Microflashing®
QB1 WITH MICROFLASHING®

Released 2012

17672SS
3” Microflash®

17724SS
4” Microflash®
LOW PROFILE QB1

SEALANT REQUIRED

Patent #8448407

COMPRESSION COLLAR

4 PARTS

BoltSeal™ mechanical compression-sealing technology
Homeowners want arrays to be closer to the roof for aesthetics, so we asked installers what else we could improve.

The Low Profile QuickBOLT1 also drives easier because it is a shorter bolt.

This also allows for more visual feedback to achieve the BoltSeal™ - when the L-Foot sits directly on the compression collar without wobbling, the bolt is fully driven to our test standards.
QB1 LOW PROFILE WITH MICROFLASHING®

Released 2016

17667SS
3” Microflashing®

17721SS
4” Microflashing®
QB1 LOW PROFILE WITH MICROFLASHING®

Released 2016

17667SS

3” Microflashing®

17721SS

4” Microflashing®
Low Profile QuickBOLT1 - BoltSealed™
QB2

SEALANT OPTIONAL

Patent #8448407

BoltSeal™ mechanical compression-sealing technology
We noticed installers trying out lag bolts with our Low Profile QB1, and after some retooling were able to come up with the Dual Drive Shoulder Screw design.

Fewer parts - by adding the hex nut to the bolt itself, we made installation even quicker.

The Shoulder Screw’s increased surface area and hex head design improved the BoltSeal™ technology significantly, removing the need for chemical sealants entirely.
QB2
Released 2020

17663
4” Microflashing®

17862
3” Microflashing®
QB2
Released 2020

17662

17862
BoltSeal™ + QB1

BoltSeal™ + QB2
NEW SPLIT TOP QB2

Released 2021

17962
3” Microflash®

17963
4” Microflash®
NEW SPLIT TOP QB2

Released 2021

17962

17963
NEW SPLIT TOP LOW PROFILE QB1

Released 2021

17867

3” Microflash®

17821

4” Microflash®
NEW SPLIT TOP LOW PROFILE QB1

Released 2021

17867

17821
The #1 Solar Top Mount on the Market
Powered By BoltSeal™ technology
Only 3 components: Microflashing®, an L-Foot, and a Dual Drive Shoulder Screw.

Small, lightweight parts make it easy to carry a roof’s worth of mounts up the ladder in a single trip.

Fewer parts = Easier & faster to use
Top Mounted = Maintains Roof Integrity

No need to remove nails or lift shingles as with traditional flashing. Less time to install and roof integrity is not compromised.
The Dual Drive Shoulder Screw compresses the Microflashing® as you drill for error-proof compression. You can **see** and **feel** when your mount is sealed right.

**Fully BoltSealed™ every time**

The Dual Drive Shoulder Screw compresses the Microflashing® as you drill for error-proof compression. You can **see** and **feel** when your mount is sealed right.
QB2 + BoltSeal™ Closeup
Testing Certified - With and Without Sealant

QB2 BENEFITS

UL 2703 RECOGNIZED COMPONENT

ASTM E331, E2140, D7147
TAS 100(A)
FL #35022
QB2 utilizes BoltSeal™ technology so well that it passed Intertek Labs ASTM testing without goop.

If you do use QB2 with sealant then you can enjoy the peace of mind ensured by multiple layers of protection, achieved without adding unnecessary effort to your install.
Cut your costs

Less time on installation with fast, easy to use parts means less money spent and increased productivity.
How many tubes of sealant do you use per job?
GOOP GOT YOU DOWN?

Materials Cost ~ $15k - $2million **annually**

Time Spent on Application

Temperature Dependencies
WHY RELY ON SEALANT WHEN YOU DON’T HAVE TO?
The mechanical compression-seal - aka BoltSeal™ - is different because it doesn’t rely on goop. With or without sealant QB2 components together create a code-compliant solution that has never seen a leak.
LAYERS OF PROTECTION
BoltSeal™ + QB2

1 EPDM COMPATIBLE SEALANT
You don’t need to use goop thanks to our BoltSeal™ tech, but if you do, you’ll benefit from the extra layer of protection.
LAYERS OF PROTECTION
BoltSeal™ + QB2

2 QB2 SHOULDER SCREW
The custom shoulder is integral to achieving a BoltSeal™ as it both plugs the roof penetration and mechanically-compresses the other components with its shoulder.
LAYERS OF PROTECTION
BoltSeal™ + QB2

3 MICROFLASHING®
Our innovative Microflash® is placed on the roof, then compressed as the shoulder screw enters the penetration.

Imagine how a cork plugs a bottle of wine.
L-FOOT
The L-Foot is clamped down onto the Microflashing® by the shoulder screw. This increases the BoltSealed™ surface area improving the protection as a result.
What if the AHJ requires traditional flashing?
DUAL-FLASHED QUICKBOLTs WITH MICROFLASHING® & MINIFLASHING™

17667DF

Microflashing®

Miniflashing®

17662DF

Microflashing®

Miniflashing®
DUAL-FLASHED QUICKBOLTs WITH MICROFLASHING® & MINIFLASHING™

17667DF

17662DF
What about when you don’t need to mount to the rafter?
DIRECT-TO-DECK MOUNT

16317

Silicone-backed

16318

Silicone-backed
DIRECT-TO-DECK MOUNT

16317

16318
CONDUIT MOUNT

16321

16255
TRADITIONAL FLASHING RECAP

17713SS

17717SS
TOP MOUNT LINE RECAP

- Height Adjustable QB1
- Low Profile QB1
- QB2
- Direct-to-Deck Mount
- Conduit Mount
- Conduit Clip
Questions?
METAL ROOF MOUNTS
METAL ROOF TOP MOUNT

16267

16267
ALL TILE ROOF MOUNTS
ADJUSTABLE ALL TILE HOOK

120mm arm length | 181mm-189mm height off roof | Includes 10 hooks + 20 screws
ADJUSTABLE ALL TILE HOOK

17702
17704

145.4mm arm length | 161mm-169mm height off roof | Includes 10 hooks + 20 screws
CURVED TILE ROOF MOUNTS
ADJUSTABLE CURVED TILE HOOK

42mm-50mm height range | 3 points of adjustability | Includes 10 hooks + 20 screws

17570
17572
ADJUSTABLE CURVED TILE HOOK

42mm-50mm height range | 5 points of adjustability | Includes 10 hooks + 20 screws
CURVED TILE HOOK FOR CLAY TILE

69mm-91mm height range | Includes 10 hooks + 20 screws
- perfect for installing OVER the barrel of the tile
FIXED HEIGHT CURVED TILE HOOK

180mm wide base | Includes 20 hooks + 40 screws
FIXED HEIGHT CURVED TILE HOOK

225mm wide base | Includes 20 hooks + 40 screws
FLAT TILE ROOF MOUNTS
FLAT TILE ROOF HOOK VS. [HD+] HEAVY DUTY FLAT TILE ROOF HOOK

17542
17608

5mm stainless steel

17636

7mm stainless steel

Include 20 hooks + 40 screws
**FLAT TILE ROOF HOOK VS. [HD+] HEAVY DUTY FLAT TILE ROOF HOOK**

<table>
<thead>
<tr>
<th></th>
<th>HOOK THICKNESS</th>
<th>SPAN LENGTH</th>
<th>AVERAGE MAXIMUM COMPRESSION LOAD (LBS.)</th>
<th>AVERAGE MAXIMUM TENSILE LOAD (LBS.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAT TILE ROOF HOOK</td>
<td>5mm</td>
<td>4ft.</td>
<td>141</td>
<td>203</td>
</tr>
<tr>
<td>[HD+] FLAT TILE ROOF HOOK</td>
<td>7mm</td>
<td>6ft.</td>
<td>691</td>
<td>2222</td>
</tr>
</tbody>
</table>
STONE COATED STEEL ROOF MOUNTS
BATTEN ADJUSTABLE STONE COATED STEEL HOOK

32mm-48mm range | 63.5mm batten bridge | Includes 20 hooks + 40 screws
BATTEN FIXED HEIGHT
STONE COATED STEEL HOOK

17622
17624

76.2mm batten bridge | Includes 20 hooks + 40 screws
NO BATTEN FIXED HEIGHT STONE COATED STEEL HOOK

17628
17630

Includes 20 hooks + 40 screws
GALVA FLASHING OPTIONS
GALVA FLASHING

15890 For All Tile & Curved Tile mounts

15991 For Flat Tile & Stone Coated Steel mounts
**INSTALL INSTRUCTIONS**

**GB2 (17662)**

**RECOMMENDED MATERIALS**
- Tools to locate and mark roller
- Drill with a 1/8”/1/4” drill bit
- MTFG approved sealant (optional)
- 1/2” Nut Sizer

**INSTALLATION INSTRUCTIONS**
1. Locate and mark the roller
2. Pre-drill the hole
3. Optional: Fill the predrilled hole with MTFG approved sealant
4. Optional: Place a ring of sealant around the bottom of the MicroFastening™ washer
5. Place the MicroFastening™
6. Insert the bolt into the L-foot
7. Drive the bolt until the MicroFastening™ is compressed
UL CERTIFICATE

CERTIFICATE OF COMPLIANCE

Certificate Number: 2091115-0493246
Report Number: 2091115-0493246
Issue Date: 2021-04-30

Manufacturer:
QUICKLY \ A Division of QUICKLY IAGRO INTERCONTINENTAL CORP.
5340 E. First St.
Crestline, CA 93518

This is to certify that representative samples of COMPONENT - MOUNTING SYSTEMS, MOUNTING DEVICES, CLAMPING DEVICES AND GROUNDING LUGS FOR USE WITH PHOTOVOLTAIC MODULES AND PANELS
have been investigated by UL in conformance with the component requirements in the Standard as indicated on this Certificate. All Component parts are compatible or certain conditional features or restrictions in the Standard may apply. Reference the UL file number for complete equipment submitted for investigation to UL, LLC.

Standards for testing:
UL 2702 Standard for Mounting Systems, Mounting Devices, Clamping Device and Grounding Lug for Use with Photovoltaic Modules and Panels

Additional Information:
See the UL Online Certification Catalog or www.ul.com/Addabelle for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Management Component Mark. Only those products meeting the UL Management Component Mark shall be deemed to be UL Listed and conformed with UL’s Follow-up Services.

Look for the UL Recognized Component Mark on the product.
HOW TO ACCESS TESTING & VIDEOS

• Log in to QuickBOLT.com
• Go to product page
• Select Permit Packet tab for permit packet
• Select Video tab for install videos and other informational videos
• Check Resources Tab at top menu for more
WATER TESTING ON ASPHALT SHINGLE

QUICKBOLT – A DIVISION OF QUICKSCREWS INTERNATIONAL CORPORATION

TEST REPORT

SLOT OF WORK
WATER TESTING OF QBS WITH 3" AND 4" MICROFLASHING®

REPORT NUMBER
K2.05-03-351-44

TEST DATES
08/01/19 – 08/01/19

ISSUE DATE
08/01/19

RECORD RETENTION END DATE
08/01/21

FRAMES
30

DOCUMENT CONTROLS NUMBER
W1-0194-2044

© 2019 INTERTEK

TEST DETAILS

The temperature during testing was 28-30°C (82.4-86°F). The results are tabulated as follows:

3" Specimen With Standard (three bonded: one asphalt: shingle)

<table>
<thead>
<tr>
<th>SPECIMEN</th>
<th>ALLOWED</th>
<th>ROUTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QBM-12X31 (bonded) @ 15.0 lbf</td>
<td>No leak</td>
<td>No leakage</td>
</tr>
<tr>
<td>4&quot; Specimen With Standard (three bonded: asphalt: shingle)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<td>QBM-12X31 (bonded) @ 15.0 lbf</td>
<td>No leak</td>
<td>No leakage</td>
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</tbody>
</table>

4" Specimen With Standard (three bonded: one asphalt: shingle)

<table>
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<th>SPECIMEN</th>
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</tr>
</thead>
<tbody>
<tr>
<td>QBM-12X31 (bonded) @ 15.0 lbf</td>
<td>No leak</td>
<td>No leakage</td>
</tr>
</tbody>
</table>

5" Specimen With Standard (three bonded: asphalt: shingle)

<table>
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</tr>
</thead>
<tbody>
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<td>QBM-12X31 (bonded) @ 15.0 lbf</td>
<td>No leak</td>
<td>No leakage</td>
</tr>
</tbody>
</table>
QUICKBOLT SALES TERRITORY REGIONS

- RICK GENTRY - MIDWEST
- CALEB LUCAS - LONESTAR
- SCOTT LISCOMB - NORTHEAST
- STUART TINKER - SOUTHEAST
- ELLIOTT ROBBIN - ROCKIES
- JOHN JEFFERS - SOUTHWEST
WE WANT YOUR PHOTOS

SWEET HAT!

DOPE SHADES!!

COFFEE MUG

POP SOCKETS

COMFY BEANIE

Send us your install photos and we’ll send you our swag!!
THANK YOU

SPEC SHEETS, TESTING, & INSTALL INSTRUCTIONS AVAILABLE ONLINE

ORDER ONLINE

WWW.QUICKBOLT.COM

stinker@quickscrews.com  (925) 495-0748  
dmatthews@quickscrews.com  (925) 344-5841