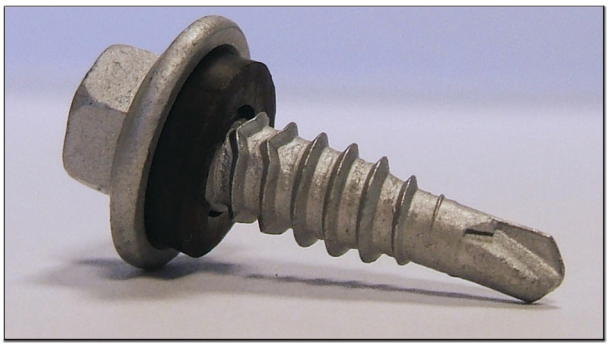


BACK-OUT RESISTANT SCREWS

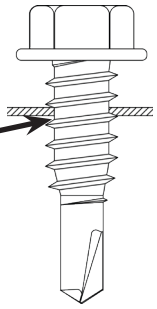
VRT Technology

U.S. Pat. No. 8,360,701
Taiwan Pat No. I50140
Europe Pat No. 2286067

Our Vibration Resistant Thread (VRT®) is designed to significantly increase back-out torque and reduce the potential for leaks. VRT® keeps the fastener tighter in applications where expansion, contraction and vibration are a concern. Independent tests verify that VRT® produces 3-1/2 times more back-out resistance than a standard thread.

PROBLEM

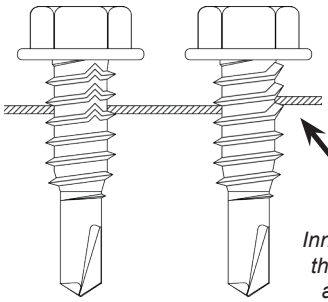
Screws with standard threads can back-out easily with little force. This can cause joint failure resulting in leaks.



Notice how standard screw threads offer little resistance to back-out.

SOLUTION

Our Vibration Resistant Thread (VRT) is designed to significantly increase back-out torque and reduce the potential for leaks.



Innovative patented VRT® thread increases friction as the screw loosens.

Why VRT™?

You can see how the shape of VRT® is designed to increase the resistance to back-out compared to a standard thread. VRT® keeps the fastener tighter in applications where expansion, contraction and vibration are a concern.

VRT Thread

Standard Thread

Test Results

Independent tests verify that VRT produces over 3-1/2 times more back-out resistance than standard threads due to it's innovative thread design that increases friction.