

# Buildex®

## The brand that sets the standard

### Hexagon Head Drive

- Integral hexagon washer head.
- Special head shape to avoid damage during driving.
- Underside has a retaining feature to captivate the seal.

### Sealing Washer

- They are manufactured from a non conductive EPDM compound, made compatible for roofs exposed to corrosive environments.

### Dwell Section

- Unthreaded section prevents the profile riding up during fixing and allows the profile to retain its original shape.

### Thread

- Buildex fasteners are designed to give the best possible holding power with a low installation torque. As thinner high tensile sections are introduced, our engineers ensure that screws have optimum holding power and pullout strength.

### Colormatch

- Buildex colormatch is a durable coating aimed to give a perfect match with your roof color.

### HiGrip 「高绑」

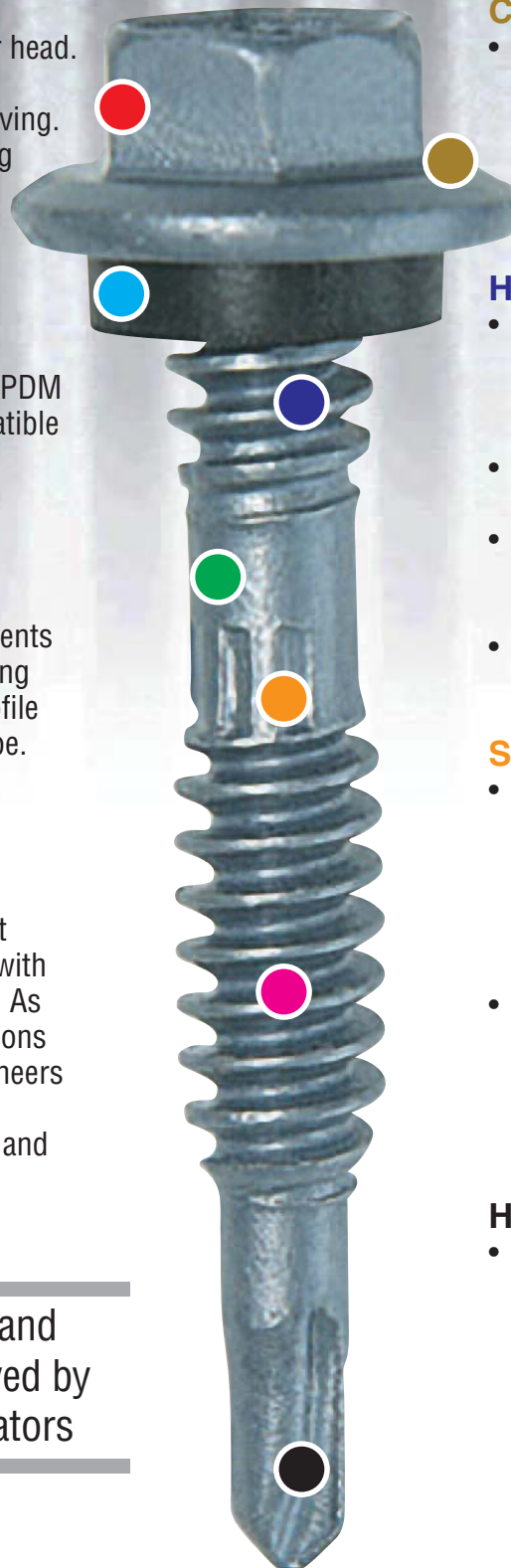
- Extrudes the roof material upwards around the fastener hole to prevent water from entering.
- Grips the roof to make a secure connection.
- Stops the roof sheet moving down the shank if the sheet is walked on.
- Ensures a water tight seal when fixing metal roofing.

### Shankguard 「螺杆保护段」

- When a corrosive micro climate exists beneath the roof, a damaged shank corrodes rapidly. This can occur at any time without warning, unnoticed.
- The unique shankguard feature enlarges the hole in the profile, avoiding damage to the protective coating on the shank beneath the roof.

### Hiteks Drill Point

- Buildex Hiteks point was introduced in 1982 and progressively upgraded to meet the requirements such as, lower and loads, faster drilling & changing materials. Hiteks led the revolution in drill screw technology for more than a decade and continues to do so.



Features invented and continuously improved by Buildex - the Innovators

## Buildex®

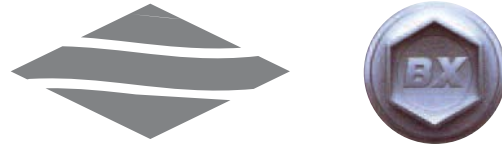
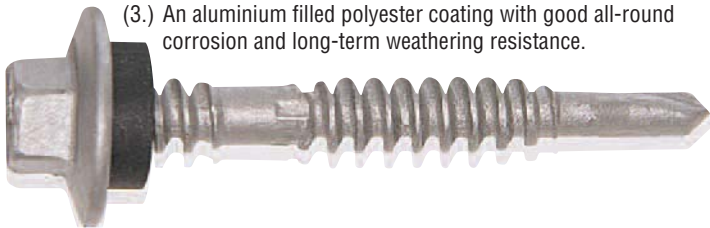
### CORROSION MANAGEMENT

## The Buildex® Solution

### PROTECTION WITH Climaseal® 3

**Climaseal®3 is an unique anti-corrosive coating system consisting of 3 distinct layers which combine to give exceptional corrosion protection:**

- (1.) A mechanically deposited zinc alloy coating giving excellent galvanic protection.
- (2.) A chromate conversion coating to passivate the zinc alloy, further inhibiting coating loss.
- (3.) An aluminium filled polyester coating with good all-round corrosion and long-term weathering resistance.



Designed to conform to AS3566 Class 3, real life atmospheric testing has confirmed that the performance of Climaseal®3 far exceeds the standard! If you want a fastener with a high-performance, corrosion resistant coating that won't let you down, consider these benefits:

- Minimal risk of coating damage during installation thanks to new, tougher coating formula.
- Better driving performance because of a smoother, harder finish.
- Superior performance in extreme temperatures, developed and tested in Australia for Australasian conditions.
- Effective sealing of roofing sheets/cladding and reduced corrosion with an improved black non-conductive EPDM seal. The black seal remains elastic in temperature extremes, and will not breakdown and allow water entry.

Climaseal®3 should be used for general external use in mild and moderate industrial, and mild marine applications

### Climaseal® 4 THE ULTIMATE BARRIER

**The ultimate anti-corrosion coating for roof fasteners and cyclone plates.**

Real world testing has exposed many deficiencies with the acceptance of coated finishes as "deem to comply", simply because of thickness and density measurements.

The new **Climaseal®4** coating is a layered system, combining both a high density sacrificial coating substrate, over which a barrier top coat has been applied. The Climaseal®4 is then applied by a new, environmentally friendly, processing system.

**Climaseal®4 meets and exceeds** AS3566 Class 4 specifications. It should be used in coastal areas where salt, wind, UV and moisture are prevalent, in tropical zones and industrial areas. It is particularly recommended for use in moderate and severe marine environments.

### Roof-Lok® WIND SPEED MANAGEMENT

**Corrugated and Square Roofing Cyclone Assembly**

The Buildex® ROOF-LOK® Cyclonic Assembly has been specially designed to fasten both corrugated and square roofing profiles and provides ultimate performance in cyclonic conditions.

**Ultimate Roof Holding Capability**

The large contact area of ROOF-LOK® dramatically improves the ability to hold down the roof, giving the roof the best chance of survival in a cyclone. The majority of Australian Rollformers put their roofing profiles through cyclonic Low-High-Low testing at James Cook University above 8 kPa wind load pressure using Buildex® cyclonic plates. This represents the standard for performance of their roofing profiles in cyclonic conditions.

\* Please contact Ramset Technical Department for detailed product information and size selection.



**All Climaseal®4 coated screws are easily recognisable by their silver/blue appearance, the "BX4" marking on the screw head, and the blue stripe found on the label packaging of Buildex bulk boxes and trade packs.**



## Buildex®

### DEVELOPMENT & TESTING PROGRAM

The only reliable way to determine corrosion performance is through Real World Testing. Buildex pioneered the use of “real world outdoor exposure testing for coatings development in 1994 and has continually developed and improved the performance of its coatings, providing superior corrosion protection.



• Open rack - simulates conditions on a roof

• Sheltered rack - simulates under roof and non-rain washed situation

Buildex operates and supports a research, development and testing program aimed at ensuring the customer and the building owner get the best value for money from the fasteners they purchase.

#### Real World Test Sites

In order to test the actual corrosion performance of our products, Buildex has three test sites and use a further four sites (operated by ITW Buildex & CSIRO).

These test sites are positioned at known corrosively aggressive locations around Australia.

Unlike accelerated laboratory testing, these sites expose the products to the combinations of corrosive influences that exist in the real world e.g.

- Chlorides (Marine)
- Humidity (Condensation)
- Acid Rain (Industrial)
- Ultra Violet (UV)

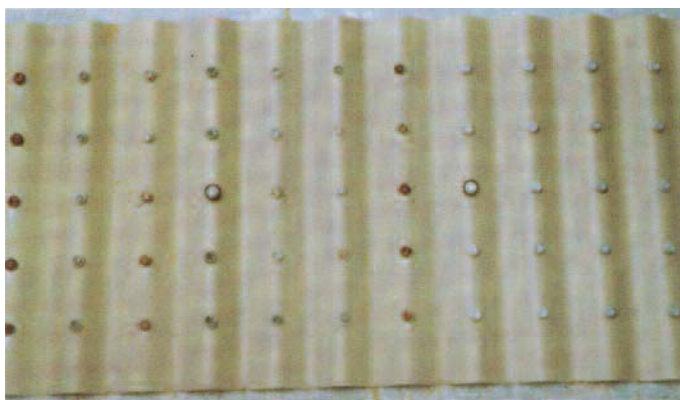
#### Scientific Monitoring

All the sites are scientifically monitored to determine the degree of corrosivity at each site. This is done independently by the CSIRO.

#### Results of Buildex Testing

Buildex has over 20 years experience with real world testing. Many of our products have been developed and improved as a direct result from what has been learned during the testing.

The severe conditions at these sites will give an indication of the product performance after approximately one year. The test also cover competitors' products.



Buildex Competitors

Buildex Climaseal 3

This panel compares Buildex product coated in Climaseal 3 with our competitors. The exposure time is after twenty-one months. **None of our competitors can compare with Buildex Climaseal 3.**



Buildex Competitors

Buildex Climaseal 3

This is the same panel after an exposure time of thirty-three months. To meet Class 3, the maximum observable rust presence after an exposure time of thirty months is 5%. Buildex products with Climaseal 3 clearly exceed the standard **only one product of the competitors' sample (circled) passes this test.**