TECHNICAL GUIDELINES & INFORMATION

SICAME AUSTRALIA

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HIGH VISIBILITY IDENTIFICATION

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FOR SHEAR-HEAD BOLTS AND HOUSE NUMBERING ON FUSE

All Sicame products that utilise shear-head bolts can be ordered with high visibility shear off identification tags.
For fuse house identification please see page **17 (LV OVERHEAD Section).**

To order the products with these identification tags please add the suffix **E** to the end of the product number when ordering.

For example:

HSC435AE

MSCI/3595XE

TTD241XFAE

PFV100E IDP

CAW35E

TTD301XFAE

RECOMMENDATIONS AND GUIDELINES FOR THE USE OF BATTERY POWERED DRILL/DRIVERS ON SICAME PRODUCTS FITTED WITH SHEAR HEAD BOLTS

The desire to use rechargable battery powered drill/drivers on mechanical shear-head nuts is gaining momentum for a wide variety of reasons including OH&S considerations. The successful use of these devices depends largely on the type of shear-head nut used by the connector. Following extensive trials and investigation, Sicame Australia can now provide the following recommendations and guidelines to ensure proper installation of our products.

RECOMMENDATIONS & GUIDELINES

SHEAR HEAD BOLT TYPE	SHEAR TORQUE SETTING	TYPICAL SICAME PRODUCT	RECOMMENDATION
Plastic head, direct contact bolt type	Up to 14 Nm	HSC435 	***Battery powered drill/driver - or - Battery powered impact driver*** For battery powered drills/drivers, a low speed / high torque setting must be used to overcome initial bolt friction (stiction) and avoid premature operation of the shear bolt.
Plastic head, direct contact bolt type	Over 14 Nm	PHM3-16-185 	**Battery powered impact driver** The impact driver is required to avoid operator injury. The high turning moment developed on the handle of a non-impact machine may result in operator injury.
Plastic head, non-contact bolt type	Up to 14 Nm	TTD241XFA 	***Battery powered drill/driver - or - Battery powered impact driver***
Plastic head, non-contact bolt type	Over 14 Nm	TTD431XFA 	***Battery powered impact driver***
Metal head, direct contact type	All	UM300 	***Battery powered impact driver.*** Metal shear heads typically have relatively high shear torque settings (>20 Nm). The impact driver is required to avoid operator injury. The high turning moment developed on the handle of a non-impact machine may result in operator injury.

RECOMMENDATIONS AND GUIDELINES FOR THE USE OF BATTERY POWERED DRILL/DRIVERS ON SICAME PRODUCTS FITTED WITH SHEAR HEAD BOLTS

DEFINITIONS

BATTERY POWERED DRILL/DRIVER

A battery powered machine fitted with a chuck and designed for use with various types of drill bits, screw drivers or small sockets. These drill/drivers apply a continuous torque to the chuck. They often have a reversible variable speed function and a slip clutch with adjustable settings. These machines are available in a wide variety of styles and prices from dozens of different manufacturers and are suitable for relatively light duty drilling and fastening operations.

BATTERY POWERED IMPACT DRIVER

A battery powered machine designed to drive tech screws, bolts, nuts and roofing screws. These machines apply a momentary or on-off torque (repetitive percussive rotational force) to the driver or socket and are fitted with either a ½ inch square drive or adjustable chuck. These machines are also known as rattle guns or rattle drivers. These machines are capable of delivering relatively high resultant torques to the device being driven, without a high resultant turning moment on the handle of machine, thus avoiding potential injury to the operator.

BATTERY POWERED HAMMER DRILL

A battery powered continuous torque drilling machine that also delivers an axial (along the axis of the drill bit) percussive force. These machines are typically designed to aid in the drilling of holes in masonry, rock, concrete and the like. These machines are sometimes known as impact drivers, but must not be confused with the machine described above. **These machines MUST NOT be used to tighten shear head bolts of any type.**

IMPORTANT NOTES

+ Six point or six sided sockets of the correct size for the shear head MUST be used on all shear head bolts.
+ Most battery machines will require fully charged batteries in good condition to develop the necessary torque to operate the shear heads.
+ It is vitally important that IPC's with multiple bolts are alternately tightened to ensure a proper connection. Under no circumstances should the first bolt be sheared off prior to tightening the second. Several turns only should be applied to each bolt alternatively prior to shearing