

Bolt Cap Benefits

Effective

Provides quality assured protection for peace of mind; tested for up to 90 minutes in a BS 476 part 20 furnace.

Efficient

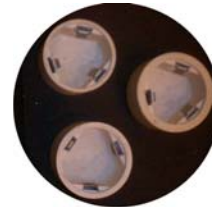
Easy to use and apply - eliminates on-site bolt cleaning, etching and intumescent coating.

Durable

Tested in extreme conditions without any adverse effects. Clips protected with Delta Pro-tekt 100 & GZ seal.



<u>Current Bolt Cap Product</u>	
<i>Type</i>	<i>Function</i>
BC 9004D	Decorative & Protective to 90 Minutes



www.boltcap.com

Typhoon Products Limited
Specialists In Fire Proof Advanced Composite Mouldings

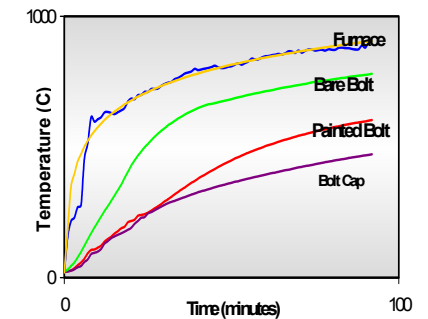
P.O.Box 41,
Poulton-le-Fylde,
FY6 8EW,
Lancashire, England.

Phone: +44 1744 20909
Fax: +44 1253 896414



Fire Proof Mouldings

BoltCap



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Tel: 01744 20909

BOLTCAPS: are designed to provide protection to bolted connections in structural steel frames in the event of fire. Manufactured from a polymeric dough moulding compound incorporating a **special formulated additive**.

Produced in the UK, consistent high quality and fine tolerances mean fit and finish are of the highest order. BoltCaps are simply clipped on to bolt heads and nuts. Their design allows for several threads to be exposed without problems in fixing. Available in all commonly used structural bolt sizes, they are produced in an ISO 9002 accredited factory.

FIRE PERFORMANCE:

Tests have been carried out in furnaces at the Building Research Establishment, and at one of the UK's leading manufacturers of intumescent coatings, which show that BoltCaps provide a higher level of protection to the bolted connections than when coated with an intumescent coating.

The tests showed that the temperature within the bolts was maintained at a temperature significantly below that of the intumescent coated bolts and the steel itself: particularly relevant when higher failure temperatures of individual elements are permitted as a result of fire engineering studies.

DURABILITY:

Polymeric compounds are renowned for durability. Independent external exposure tests in the Middle East, and accelerated weathering tests in a Prohesion cabinet, confirm there is no loss of performance when subject to severe weather conditions.

BRE Statement :

“A number of composite steel T sections were tested in the furnace at BRE Garston utilising the BS476:Part 20 heating curve for a duration of ninety minutes. The steel sections were treated with a thin film intumescent coating applied in accordance with the manufacturer’s instructions.

The T sections were constructed from hot rolled I sections fixed with structural steel bolts. A number of bolts were protected with insulating caps some with intumescent coating and some left without any form of protection.

The results derived from thermocouples within the bolts on the sections showed that the temperatures attained by the bolts protected with BoltCaps were significantly below the temperatures reached by those treated with intumescent coating.

The results of these tests showed that bolt caps provided a higher level of protection than afforded by the use of intumescent coating and therefore can be considered as an alternative means of protecting the structural bolts”



The **BoltCap** is manufactured from a polyester dough moulding compound with a proprietary additive which enhances its performance considerably. This “cirtam” additive was developed to allow polymers to perform outside their normal operating environment.

Polyester dough moulding compound was chosen because it is one of the most cost effective moulding media, and allows a precision engineered moulding with excellent durability to be manufactured.

Quality Protection

The BoltCap provides OUSTANDING PROTECTION to your bolted connections AT ALL TIMES.

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