

## Certified Lifting Arrangements

Many Blakley products are used in temporary installations and are moved from project to project during their working lives. Due to the weight and size of many assemblies, a variety of mechanical lifting devices can be used on site, including fork lift trucks, tower cranes and vehicle mounted cranes (Hi-Abs). To enable assemblies to be lifted safely, we incorporate various lifting attachments, which include certified lifting eyes (fixed and swivel type), as well as in house produced crash frames and lifting bracketry.

Standard arrangements have been independently type tested and Safe Working Loads have been established via destructive testing. Non-standard designs are derived from the results of testing standard arrangements and non-destructive tests have been carried out on special arrangements, to establish Working Load Limits. The tests not only verify the lifting arrangement itself but also how they attach to the enclosure or frame.

Our lifting arrangements are generally bolt-on, allowing them to be checked and maintained whilst in service. If there is doubt about the integrity of a lifting arrangement after a prolonged period on site, lifting bracketry can be replaced, which isn't practical with welded-on brackets. The lifting arrangements incorporated within these assemblies should help employers comply with the LOLER and PUWER regulations.

Many of our assemblies are top heavy and there is a risk of toppling-over, particularly in transit. Standard Mains Distribution Assemblies (MDAs) rated from 630A to 1600A are supplied on purpose built pallets, which greatly reduce the risk of damage in transit. To increase stability, our largest standard MDAs have removable stand extensions, which are not fitted until an assembly is positioned on site.

### Standard Arrangements

#### Fixed Eye Bolts

Typically used on MDAs weighing up to 750kg. Destructive tests have been carried out on arrangements for MDAs rated at 800A / 1600A and a Safe Working Load of 750kg has been assigned. Arrangements for MDAs rated at 400A / 630A are to a similar design and a Safe Working Load of 250kg has been assigned.

#### Swivel Eye Bolts

Typically used on MDAs weighing over 750kg. The overall arrangement has been type tested and a Working Load limit of 2000kg has been assigned.

#### Crash Frames and Crash Frame Brackets

Various destructive tests have been carried out on crash frames and their lifting arrangements, with a Safe Working Load of up to 1500kg. Other arrangements have been assessed for Working Load limits of up to 3600kg (non-destructive tests). Due to the non-standard nature of these assemblies, please consult us at time of enquiry.

#### Lifting Chains

The above weight limits are based on lifting chains at an angle of up to 45° from the vertical. Please note: if chains are at a greater angle, the rating of the eye bolt reduces significantly, which can compromise the arrangement.

Copies of Test Certificates for our standard MDA lifting arrangements are available from the Downloads section of our website.



Lifting Arrangement as fitted to B6 / B7 series MDAs, with a Safe Working Load of 750kg per pair. Eye bolts are the fixed type and certified to BS4278



Lifting Arrangement as fitted to a B8 series Mains Distribution Assembly, with a Working Load limit of 2000kg per set of 4. Eye bolts are swivel type and certified to BS 4278.



Flush mounting lifting brackets with a Safe Working Load of 1500kg incorporated within a crash frame

## THE POWER PROFESSIONALS

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