Montageanvisning

Glasfiberstag – Kapning på arbetsplats

Cutting on side

The GFRP Rebars will be delivered in cut form, to minimize the amount of Rebars that will need cutting on job site. However it is possible and easy to cut FiReP Rebars on site. For cutting saws, flexes or similar devices are suitable. The use of bolt cutters and drop shears is not permissible.

Possible Risks

1. Skin Irritations

During cutting GFRP material a fine cutting dust develops, containing glass material and resin. Contact with the cutting dust should be avoided by use of appropriate protective clothing. It is possible that the residuals, including small glass fibres will cause skin irritations. These irritations are mechanical irritations and no allergic effects. It may cause in itchiness and sensitivity of the skin that can be eliminated by washing with water. GFRP is an inert and unsolvable material that does not interact with other materials or organism.

2. Dust formation

To avoid the dust to be inhaled a dusk mask should always be worn during cutting. It cannot be definitely excluded that respirable particles can form while cutting, but researches showed that this is very unlikely for glass fibres. The glass fibre originally has a diameter of 15-34µm. During cutting primarily resin bound grain-dust will develop.

Only particles that have a length-diameter-ratio of higher than 3:1, a length of <5µm and a diameter of <3µm are considered to be respirable. The maximal workplace concentration (MAK) is given to be 0.25 respirable fibres per ml Volume. Such a concentration will not occur when cutting GFRP Rebars. More likely no respirable fibres will develop at all as studies showed that lengthwise splitting of fibres will not happen when machining.

The possibility of fine dust explosion by cutting in enclosed spaces is ruled out.

Handling Recommendation for risk minimization

Based on the above presented points the risks of harms by glass dust is very low. Nevertheless it is recommended to use a low speed diamond blade with water cooling. The low speed cutting produces glass dust with higher diameter than by use of high speed cutting. Water will bind a big part of the dust. Open air cutting is preferred.

We highly recommend wearing protective equipment as gloves, dust mask and protective glasses during cutting activity.

After skin got in contact with GFRP cutting dust wash with water.

MRS / 21.10.2014

Ahlsell Sverige AB
Platsgjutet tel: +46 582 126 00
Prefab tel: +46 10 476 07 50

betongkomplement@ahlsell.se
www.ahlsell.se