

## BALLISTIC SHIELD

The main function of mine sweeping shield is to improve user's protection against fragments moving on high speed in various mine sweeping assignments. Shield's structure is based on high performance material that has good kinetic energy absorption properties combined in light weight. Shield can be used by two persons at the same time if necessary.

Shield's functioning is based on a ballistic panel that provides ballistic protection and gives shield its structural strength. Combining those characters above in same structure is usually problematic because improving mechanical properties reduces ballistic properties and similarly optimising ballistic properties decreases strength. High

Shield is provided with two aluminium telescopic legs which are easily replaceable and makes holding the shield up possible. Two spare legs is included and they are placed inside the bag. There are four hinges for fastening the legs. One in each corner that makes it possible to use shield in different positions. There is also two spare hinges in a pocket inside the bag. Legs are wear resistant and their length is adjustable. Grip on ground is improved by spikes whose length is optional. During transportation and storing legs can



performance aramid fibre has been used as reinforcement in the shield. Aramid weaved layers are laminated to each other by modified phenolic resin. This is optimal structure to combine structural strength and stiffness, ballistic performance and lightness.

Shield is provided with two hatches which can be blocked with two transparent shutters made of laminated anti-scratching material. Hatches with shutters makes it possible to work behind the shield still protected against fragments. Shutters are provided with mechanical fastening and using mechanism and they can be locked on two positions, open and closed. Soft Velcro

tape fastened fabric cover reduces scratching during transportation and storing.

be fastened with clips inside the shield.

Handle is rigid, made of polyurethane elastomer and reinforced with a steel insert. It is fastened with screws on the backside of shield.

The shield is supplied with its storing and transportation bag, made of wear resistant material.



### TECHNICAL DATA

Height : 1300 mm  
 Width 730 mm  
 Colour : dark green AN11 or customer defined  
 Protective area 0,97 m<sup>2</sup>  
 Hatches : 140 x 140 mm  
 Weight :  
 Ballistic panel : 9,4 kg/m<sup>2</sup> approx.  
 Fully equipped shield : 15 kg approx.  
 V50-value : over 600 m/s, including shutters (tested according to Stanag 2920)  
 Tested against .44 Magnum and 9 mm FMJ bullets (according to NIJ IIIA).  
 Panel does fulfil the norm, shutters not.