



# LEGION POLYETHYLENE

ASL GRP's Legion Polyethylene panels are a lightweight armour designed to protect property and personnel from ballistic attack. They are used in a variety of applications including Cash in Transit (CIT) vehicles, armoured and military vehicles, marine vessels, firing ranges and other secure areas where lighter weight ballistic protection is needed.

Legion Polyethylene is particularly well suited to the marine industry, where weight and available room can be very restricted, such as fast patrol vessels, crew boats, superyachts and tenders.

ASL GRP's Legion Polyethylene armour is an excellent alternative to popular branded material such as *Dyneema* and *SpectraShield* providing much better value for equivalent or better ballistic and mechanical performance.

Produced to a unique specification, Legion Polyethylene has an exceptional surface finish and a unique coupling layer which provides a high strength coupling between environmental coatings and the polyethylene panel. This is a key difference between Legion and other high profile brands, and significantly reduces the occurrence of delamination / bubbling of Polyurethane environmental coats

whilst at the same time improving the appearance of gloss finishes.

In addition to the surface finish, the production process of ASL GRP's Legion Polyethylene makes it far easier to machine than other materials resulting in more accurate cuts, sharper profiles, less wastage (therefore reduced cost) and provides the possibility for parts to be modified using hand tools rather than specialist equipment.

Legion Polyethylene is available in two grades, 'Standard' which has similar

## FEATURES

- ▶ High level protection
- ▶ Thickness 1.5mm to 40mm
- ▶ Very light weight (density of 0.97kg/m<sup>2</sup>)
- ▶ Multi-hit protection
- ▶ Maximum panel size 1600mm x 1375mm
- ▶ Ballistic certification provided

## VEHICLE PROTECTION

## VESSEL PROTECTION

## PERSONNEL PROTECTION

ballistic capabilities to *Dyneema HB26* or *SpectraShield SR1226* and 'Ultra' which has similar performance to *Dyneema HB26* or *SpectraShield SR1324*. A Legion 'Extreme' grade suited to aircraft applications is available on request. ASL GRP can supply Legion Polyethylene armour in a range of sizes with a capability to produce parts as long as 3000mm without cutlines.

If specified, a glass facing can be applied at time of pressing or bonded on afterwards. These can be cut to the customer's required size.

ASL GRP's STANAG Level 2 Polyethylene panels testing and clear pass.

