



Dioplex™

Dioplex™ is an aluminium-bodied linear-cutting charge used to cut steel plate or structural components and concrete which contains rebar. Available in 1m and 0.5m lengths and has a cutting range between 12mm and 80mm of steel depending on the selected charge. Used by the military and in the demolition industry around the world, Dioplex™ is a powerful explosive cutting tool.

Dioplex™ charges are assembled from pre-formed lengths of extruded aluminium, with a copper liner factory fitted and sealed in place. Charges are cut to the desired length or used as provided and then filled with plastic explosive by the user. The end-caps provided fit firmly onto the ends of the charge cases containing the explosive. A silicone rubber sealant may be used for underwater applications. In order to affix Dioplex™ to a target, Velcro strips are supplied with the kits. Alternatively, Breacher's Tape™ or strong magnets can be purchased.

Features include:

- > Individual lengths may be connected end-to-end with reliable initiation of all charges
- > Can be used on land and under water
- > Powerful and efficient explosive effect
- > Available in lengths of 0.5m and 1m

Performance

30mm Dioplex™ charges may be used for severing mild steel at least 30mm thick (1.2in) when using plastic explosive. More than twice this thickness may be severed using opposed pairs of charges. The relative efficiency greatly reduces the amount of explosive needed. It is advised to carry out a test firing on any target material whose properties are not precisely known.

Initiation

Each charge may be initiated at either end, or both ends, by insertion of a detonator or detonating cord booster (DCB) held in place by the Split Screw. It is also possible to initiate the 40mm charge at any point along the centre-line of the back by means of a Clip-on Initiator. This in turn is initiated by means of a detonator, DCB or detonating cord. The initiator is designed to be placed easily in zero visibility conditions. It provides a particularly convenient way to interconnect an array of charges after they have been attached to the target(s).

Applications

Dioplex™ can be used in both land and underwater demolition. When used on land, the aluminium body and lid are reduced to very small lightweight fragments upon detonation. These fragments do not travel far, so there is very little danger of fragmentation damage behind and to the side of the charges. After sealing the End-caps in position and sealing the longitudinal junction between the body and the liner it is possible to use Dioplex™ underwater at a depth of several metres (advice is available). In order to waterproof the charge it is advised to seal using a silicone rubber.

Configuration

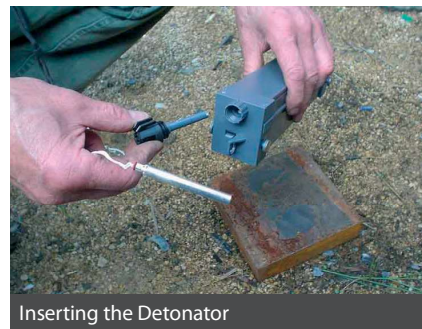
Dioplex™ is available in 1 metre and 500cm lengths. The ½ metre kits contain all necessary components to build two charges of ½ metre or less in length, while the 1 metre kits offer the flexibility of building up to three charges.

For further information

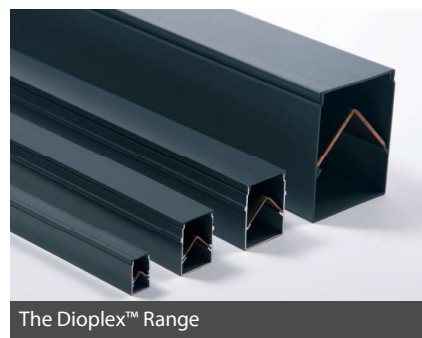
Contact sales@explosives.net, telephone +44(0)1249 65 1111 or speak to your authorised Alford representative.

Specifications

Product Series	NEQ	PERFORMANCE
DX300	0.3kg/m	12mm max cut.
DX450	0.4kg/m	20mm max cut
DX900	0.9kg/m	30mm max cut
DX1200	1.2kg/m	40mm max cut
DX2000	2.0kg/m	50mm max cut
DX3000	3.0kg/m	60mm max cut
DX5000	5.0kg/m	80mm max cut



Inserting the Detonator



The Dioplex™ Range



Cutting Steel: Applied to an electric pylon



Applied to track - Before & after

Other products to consider:

Rebar Cutter™ - for cutting reinforced steel cable

Universal Demolition Block (UDB) - a modular universal demolition charge



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