



Water Control

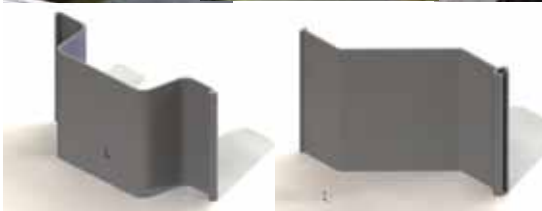
Flood control, Damming, Erosion control and Bank stabilisation

Plastic Sheet Piling is ideally suited to all water control applications. The combined water tightness and economy of the systems makes these products ideal for large scale water control.

So whether your application is erosion control of drainage channels or peat moorland, reinforcing flood defence levees, bank stabilisation and retention, silt baffles, or even the creation of water channels; **APE Plastic Piling** will have a product for you.

The days of one product for all applications is thankfully over and our range encompasses, traditional economic profiles, advanced hybrids and heavy duty sections. The majority of the range is made from recycled PVC, although HDPE and Polyurethane products are also available.

APE's range also enable us to tailor a product to your chosen means of installation, including light plastic sheet piles that can simply be dug in, hybrid systems working as king panels, plus new designs that can and have been driven at lengths of 6m plus.





Traditional Plastic sheet piling, cut-off walls, erosion control, bank stabilisation, silt baffles, dams.



Advanced pile designs, Pro-Lock MultiLock and Truline. Used on their own or in conjunction with steel tubes of timber posts. Dams with or with sluice mechanism, cut-off walls, erosion control, water channel design.



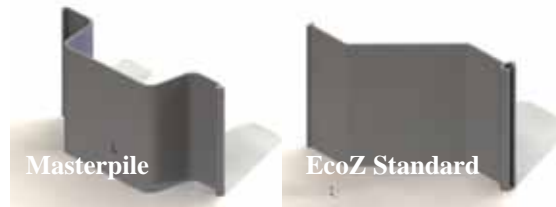
Product range overview by method of installation

Piles for trench and fill methods

These are the lightest product of our range, used for fascia works and light applications. The U and Z profiles are focused more on economy than strength or ability to drive, and represent what was available before APE got involved.

Over the past 15 years APE has devised methods to enable these products to be driven, and in many situations we can vibro drive 1-2m lengths. The high flexibility of these products means that they are best suited to trench and fill.

Products features here are the EcoZ, Trench pile and Masterpile.; representing a complete product comparability to the offerings of HL Plastics, and are most commonly used for erosion control shields, supported by timbers driven in front.



Trench Pile



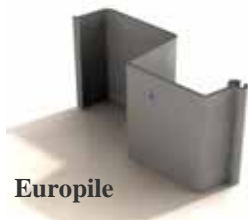
Plastic Piling suitable for Impact Installation

These are more medium duty sections that are typically a narrower designs, that enables full anvil coverage. These tend to be thicker piles, that have a higher resilience to impact driving—that is they are design not to crack. This category is important for applications where vibro driving is unsuited or where piles need to be driven in singles rather than panels.

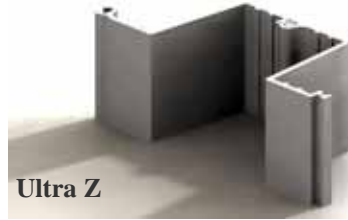
These products on average are capable of being impact driven up to 2m into the ground, with product lengths between 3-4m. All these sections can be driven using a vibrator, either directly with the Movax Lite (6m Europile driven in tests), or driven by a conventional EMV300 or EMV70 in panels of 2-4 sheets.



Truline 800



Europile



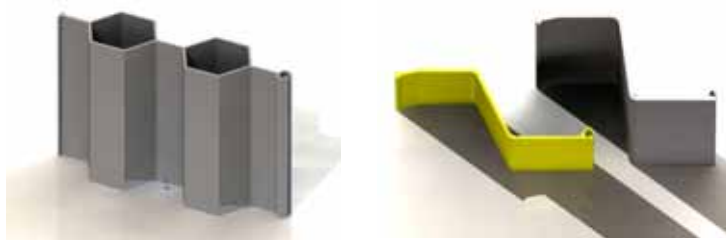
Ultra Z

Plastic Piling suitable for Direct Vibro Installation

As mentioned previously, there are several products in our range that can be driven in using a vibrator. That stated two products stand out from the crowd, the MultiLock and the Nexgen. These two profiles are the most rigid, essential for efficient vibro drive.

The MultiLock obtains its rigidity through its clever geometry that encompasses two hexagonal tubes within a symmetrical design.

Nexgen achieves the same but through advance material design as it is a fibre reinforced polyurethane composite.



Plastic Piling suitable for side mandrel assisted vibro driving.

For a pile to fall into this category it needs to have sufficient rigidity to be top driven, that stated toe resistance is minimised through the use of the mandrel.

The Nexgen and MultiLock can clearly be used in such a manner, and this method will enable installation into soils not normally suited to vibro driving.

The Europile and Ultra Z also can be driven in such a way, but their lower rigidity simply means shorter lengths.



Plastic Piling suitable for Back mandrel assisted vibro driving.

The back mandrel as the name suggest sits to the rear of the sheet and provides more support, through the increase contact between mandrel and pile. The downside is that there is a greater chance that the pile will be extracted when the mandrel is removed. The armadillo and Stabcat are examples of this type of mandrel.

Less rigid sections such as the Environ PE, Europile and Ultra Z would be the sections that benefit from this design of mandrel.



Plastic Piling that does not need to be driven - the hybrids

It is perhaps this range of products that sets APE Plastic Piling aside from its competition. The MultiLock, ProLock and Truline range are all more usually installed as part of a king panel design. Where integral strength is maximised through using other materials, such as timber, steel or concrete.

From an installation view point the pile only needs to enter the ground 0.5-1m, and the internal member is then driven conventionally to a deeper depth. For exceptionally hard driving conditions, where a height is required rather than a cut off depth, this is the ultimate solution.



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