

# RETAINING WALLS & BULK STORAGE UNITS

Retaining Wall and Bulk Storage units supplied by SWP Concrete Solutions Ltd are designed and produced to meet all the requirements of specifications and standards relating to their end use under carefully controlled manufacturing conditions ensuring a high quality product with inherent durability resulting in minimum maintenance.

SWP Retaining Walls provide an economic solution for the retention of earth and other materials and can be quickly installed with minimal plant and labour requirements; they can take loading on either or both faces simultaneously.

SWP Concrete Solutions Ltd currently concentrate their retaining wall production on 3.0m high by 1.0m wide units including corner units and other adaptations to give maximum flexibility with regards to layout design.

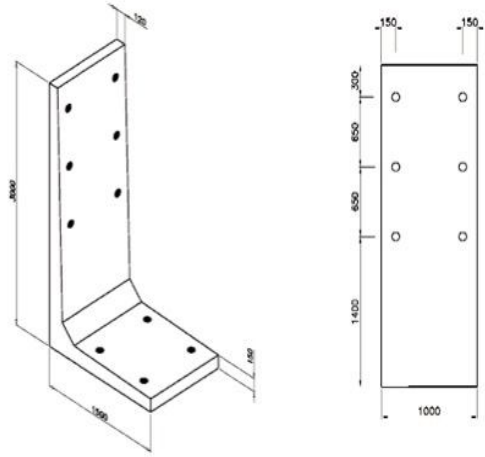
The company can also supply retaining wall units in other heights subject to quantity required and are interested in discussing such requirements with potential clients/contractors.

The use of SWP Bulk Storage Units produce a free standing wall bulk material retention system ideal for all types of stockyards to meet the needs of factory, infrastructure, or agricultural applications.

Available in heights up to 2.4m the units are supplied in 1.0m widths and by the use of junction units maximum efficiency can be achieved with regards to layout and storage requirements.

SWP Bulk Storage units require minimal labour and plant to position and can be easily repositioned if the stockyard areas change.

SWP Concrete Solutions Ltd offer a nationwide delivery service for their Retaining Walls and Bulk Storage Units, for further information, sales advice, or a quotation please contact the company as below:



SWP Concrete Solutions Ltd  
Hillside Farm  
Stogursey,  
Bridgewater  
Somerset  
TA5 1RH

Please email enquiries to:

[info @swpconcrete.co.uk](mailto:info@swpconcrete.co.uk)

## TECHNICAL

SWP Retaining Wall and Bulk Storage Units are designed in accordance with British Standards and/or European Codes for the design of structural concrete and earth retaining structures. The concrete grade used is C50/60 in compliance to BSEN 206-1/BS 8500.

SWP Concrete Solutions Ltd manufactures its retaining walls and bulk storage units under carefully controlled factory conditions by experienced personnel. Adherence to the Company's Quality Assurance procedures is ensured by continuous inspection during the manufacture process.

Whilst not yet able to offer third party certification of the quality system, which the company is working towards, SWP Concrete Solutions Ltd welcomes client inspections prior and during the manufacturing processes. Such inspections have already been carried out by clients including major contractors to their complete satisfaction.

SWP Retaining Units are designed to retain materials with a density up to  $18\text{kN/m}^3$  and an angle of repose greater than  $35^\circ$ . With the retained material level with or below the top of the wall units, a superimposed load of up to  $10\text{kN/m}^2$  can also be applied to the fill. Alternatively, material can be stored (or an embankment sloped) up to an angle of  $30^\circ$  from the horizontal. This applies regardless of which face of the retaining wall is to be loaded.

SWP Concrete Solutions recommend that their retaining wall units are anchored to a concrete foundation by the use of holding down bolts or dowels to provide an adequate factor of safety against overturning and sliding. Whilst the company can offer advice with respect to such anchor requirements the design of the foundation and any anchoring requirements should be carried out by the clients/contractors suitably qualified engineer.

If the retaining wall is to be faced with brickwork or other decorative post applied finishes, it is recommended that the units are tied horizontally together to prevent any differential lateral movement.

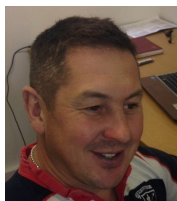
SWP Bulk Storage Units are designed to retain materials with a density up to  $18\text{kN/m}^3$  and an angle of repose not exceeding  $35^\circ$ . Material can be stored up to an angle of  $30^\circ$  from the horizontal on either or both sides of the unit.

## DELIVERY AND OFFLOADING

SWP Concrete Solutions Ltd will agree with their client/contractor the delivery sequence, place and approximate time of delivery enabling safe load deliveries.

It is the responsibility of the client/contractor to provide suitable hard standing and access for the delivery vehicles from a Local Authority road to where the units will be offloaded.

## **Why SWP Retaining Walls and Bulk Storage Units? – Experience counts.....**



**Steve Stone**, Director and co-owner of SWP Precast Solutions has over 20 years experience and responsibility in general contracting including retaining wall and stockyard construction as well as concrete mouldage and shuttering. Whether it is retaining wall or bulk storage requirement Steve's knowledge and experience can help to ensure a successful project.

