



The LUSIT Angle Support System



AN OVERVIEW



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The most functional retaining wall system available.

The GERMAN engineered
STRONG retaining support
system with strong DESIGN.



The Lusit Angle Support System's design allows for easy installation while functioning as a monolithic retaining wall once installation is complete.

The Lusit Angle Support System's configuration gives the retaining wall its structural integrity, eliminating the disadvantages of site-built retaining walls.

The Lusit Angle Support System

THE PROVEN RETAINING WALL SYSTEM providing nearly endless configurations and finishes for residential, commercial, industrial and roading applications. The Lusit Angle Support System was developed and proven in Germany and over the last 30 years it has become the most popular retaining wall system available.

Now available in New Zealand, the Lusit Angle Support System has been re-engineered to suit the New Zealand standards, the New Zealand environment and the New Zealand soil conditions.

Lusit Angle Supports are in fact practical Elements designed and engineered to fulfil definite functions such as retaining, enclosing or the construction of terracing (hence the name "LAS Elements").





The LAS Elements from Lusit: high quality construction elements made within a controlled factory environment, using specially designed steel forms, quality concrete and specifically engineered reinforcing baskets.

With the LAS Elements you have a retaining wall system that offers precision, versatility, durability, structural integrity and speed of installation that piled timber retaining walls, cast in place concrete or modular block retaining walls cannot match.

Manufactured in a factory controlled environment, LAS Elements achieve appearance and strength uniformity surpassing most construction specifications.

The standard LAS Elements are available in heights ranging from 50cm through to 4 metres and in wall thicknesses of 10, 15, 20 and 25cm.

This extensive standard program means that practically every retention and load situation is covered by the standard LAS Element program.

Through the LAS Element's creative design, diverse forms and engineered structural integrity, the Lusit Angle Support System enables every planner to be able to specify and build beautiful retaining walls even when confronted with difficult high load situations.

All LAS Elements can be singled out as a result of Lusit's uncompromising quality standards, so vital in the field of retaining, be it in the garden, or in the drive, beside a road, in an industrial estate or by the retention of railway tracks.

The LAS Elements, with their unobtrusive elegance, fit perfectly into the urban landscape and all thoughts about the heavy loadings to which they are constantly subjected, can be forgotten.





The Lusit Angle Support System



Although our standard LAS Elements cover most requirements, our manufacturing process enables us to offer a wide range of variations so that the LAS Elements are suitable for any site specific requirement.

For example:

- sloping head angle;
- smooth surface on both sides;
- handrail or fence support anchors;
- step supports;
- specific sizing;
- integrated lighting;
- textured surfaces.





These steel reinforced concrete Angle Supports became the **German retaining system of choice** based on their:

- **Consistent high quality**, and
- **Simple economics**.

The consistent high quality is achieved by means of:

- Factory controlled production;
- Specifically engineered reinforcing baskets;
- The use of quality, specially constructed German steel forms, guaranteeing consistent product measurements and millimetre exact placement of the steel reinforcing baskets;
- Thorough compaction of the concrete;
- Precise reinforcement concrete cover;
- Proper in-form concrete curing.

The simple economics are a result of:

- The speed with which LAS Elements enable retaining walls to be built;
- Savings in both material and labour costs;
- The ability to build perfectly vertical retaining walls that take very high loads right up to the top edge;
- The ability to be able to plan the exact quantities and cost of a retaining job;
- Full land utilisation being able to be achieved through using the LAS Elements;
- Pre-production of large quantities of LAS Elements before the retaining work commences;
- Superior strength and structural integrity of the LAS Elements;
- The slimness of the LAS Elements results in savings on concrete and transportation costs;
- Specialist manpower for the installation is no longer required;
- The ability to remove and reuse the LAS Elements if so desired;
- True value for money.



The Lusit Angle Support System

For All Loadings

The unique LAS Elements from Lusit are available to suit all types of embankment and terrain retention and for all types of loadings.

We offer a complete engineering support and calculation service so that if unusual or unexpected retention and load situations are encountered, the LAS Elements can be specifically engineered for the requirement.

The size and amount of steel reinforcing, the concrete strength and concrete cover, as well as the length of the LAS Element's foot, are calculated on the basis of retention and load situation in which the LAS Elements will be used.

For the usual and regularly occurring requirements in landscaping, construction, roading and civil engineering, we offer standard LAS Elements which are suitable for the following five standard retention and load types.

Load type 1	Load type 2	Load type 3 (SLW 30)	Load type 4 (SLW60)	Load type 5 (UIC 71)
General load to 5 kN/m ²	Slope retention to 30°	City streets with traffic loads to 16.7kN/m ²	Highway & streets with heavy traffic loads to 33.3kN/m ²	Rail lines with extreme loads to 52kN/m ²





Lusit - the Retaining Wall System of Choice ...

- Designed and engineered to provide a cost effective and versatile solution for a wide variety of ground retention uses;
- Various sizes and features means the right choice for both small and large projects;
- Designed and engineered for individual loading conditions;
- Efficient, practical and economical solutions for every application site, including convex or concave designs and corners of various degrees;
- Easy to handle;
- Simple and quick installation;
- Minimal labour required;
- Perfectly vertical walls that take high loads right up to the top edge;
- Enables full land utilisation;
- High quality materials;
- Produced in a controlled factory environment;
- Weather independent production;
- Product consistency;
- In-factory quality control prior to installation;
- Superior strength and structural integrity combined with low-weight construction to realise savings on concrete and transportation costs;
- Price competitive solution to your retaining needs;
- Perfectly smooth surfaces with chamfered edges as well as an unlimited choice of textured finishes, achieving architectural brilliance every time;
- Structural integrity delivered every time.

LAS Elements deliver structural integrity!

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