

Longspan Shelving

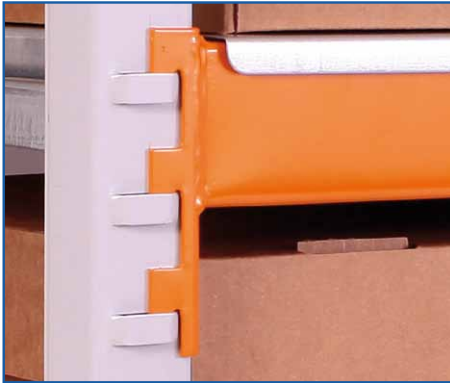
The Fundamentals...



- 50mm adjustability
- Multiple beam duties
- Assembled frames
- Can be manufactured to specific sizes at no additional cost
- Stepped beam profile
- Hanging garment rail
- Multi-tier capability



Longspan Shelving



Frames

- Up to 9300mm high
- From 400mm to 1650mm wide
- Riveted frame assembly or bolted construction
- 50mm wide post section

Beams

U section beams

38mm, 50mm, 60mm, 70mm,
85mm & 100mm deep
From 500mm to 3900mm long

Z section stepped beams

To suit 25mm thick chipboard
From 500mm to 3900mm long

Range of steel galvanised decks to suit

Finish

Epoxy powder coated



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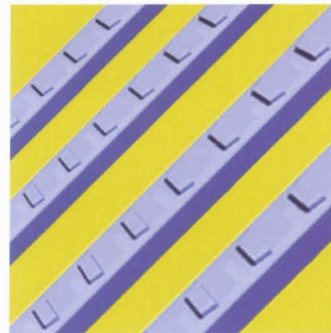
STORAGE DESIGN LIMITED

INNOVATIVE SOLUTIONS IN LONGSPAN SHELVING SYSTEMS

APEX + LINVAR
INNOVATIVE SOLUTIONS

THE COST EFFECTIVE LONGSPAN SHELVING SOLUTION FROM APEX LINVAR

frame type



channel frame bracing



Throughout the Milton Keynes factory we utilise the most up- to-date equipment and state-of-the-art production methods to ensure quality products. Our extensive facility includes specialist cold rolled steel rolling mills, steel forming presses, fully automated welding machines and one of the largest epoxy polyester powder coating paint lines in Europe.

The upright frames for the Longspan shelving are factory assembled for ease of handling and shipping, but if required can be supplied in component form.

All beam sections are manufactured to high tolerances and are supplied in a variety of standard lengths and sections to suit customer requirements.

Apex Longspan shelving is a versatile adjustable system that can be utilised across a broad spectrum of applications ranging from hand loaded systems through to sophisticated order picking installations.

Whatever the problem we have the solution to offer.

Our Type 6 frame consists of cold rolled steel uprights, formed into lipped channel sections together with bracing and footplates. Interlocking levelling plates under the base take up any minor irregularities in the flooring level. The use of this equipment is dependent upon loading requirements.

Type 6 Standard duty upright:-
50mm face width x 56mm
depth x 1.5mm material
thickness.

Vertical adjustment:-
50mm pitch

Designed for strength in application, durability and ease of assembly. The Longspan system frames are braced using the Warren Girder configuration which uses "C" Section channel section 25 x 27 x 1.8mm thickness either bolted or rivetted to the upright posts. This forms a strong sound connection giving strength and durability throughout its use.

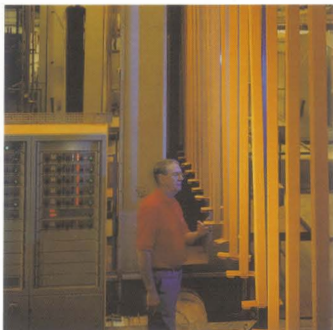


longspan shelving specifications

Apex adjustable Longspan shelving is manufactured in the following standard range and can be designed to suit your individual needs if required:

- Frame heights - range from 1200mm to 7200mm
- Frame depths - range from 600mm to 1350mm
- Frame bracing - channel "C" section bracing fitted to a standard "Warren Girder" configuration for strength in use
- Frame construction - 6mm diameter industrial rivet or nyloc nuts and bolts
- Frame post width - 60mm upright face
- Bay clear entry - 1200mm through to 3000mm
- Beam height - Choice of beam sections 38, 50, 60, 70, 85, 100mm
- Beam pitch - 50mm
- Standard finish - Uprights - grey RAL7035, Beams - orange epoxy powder coated

Special colours and galvanised finishes may be available on request at extra cost

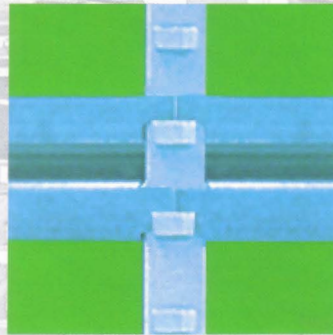


beam options



Seven standard open "U" Section beams make Apex Longspan an ideal choice for versatile storage applications that allows a wide range of loadings to be specified. All beams are used in pairs and have the same style of end connectors (welded on either end of the beams) which fit onto the upright frames. When in position in the upright, the connector fits tightly against the side of the upright, thus improving stability. The tighter the fit, the greater the stability.

profile step beam



Stepped beams are formed into a 70 x 37 x 2mm thick "Z" profiled beam which is specifically designed to support 25mm thick chipboard or timber materials used for the purpose of storage of goods and equipment. Clear entry lengths available as standard from 1350, 1500, 1800, 1950, 2100, 2400 and 2700mm.

cost effective solutions



Apex Longspan shelving is designed to perform better than many equivalent systems on the market. Available in beam lengths of up to 3000mm, it has a frame that can withstand a loadfactor of up to 6000kgs dependent upon the loading criteria, yet its modular construction makes it quick and easy to assemble. There is a wide choice of accessories that can be used and customers need look no further for a shelving system that combines versatility with rugged good looks.

quality & safety



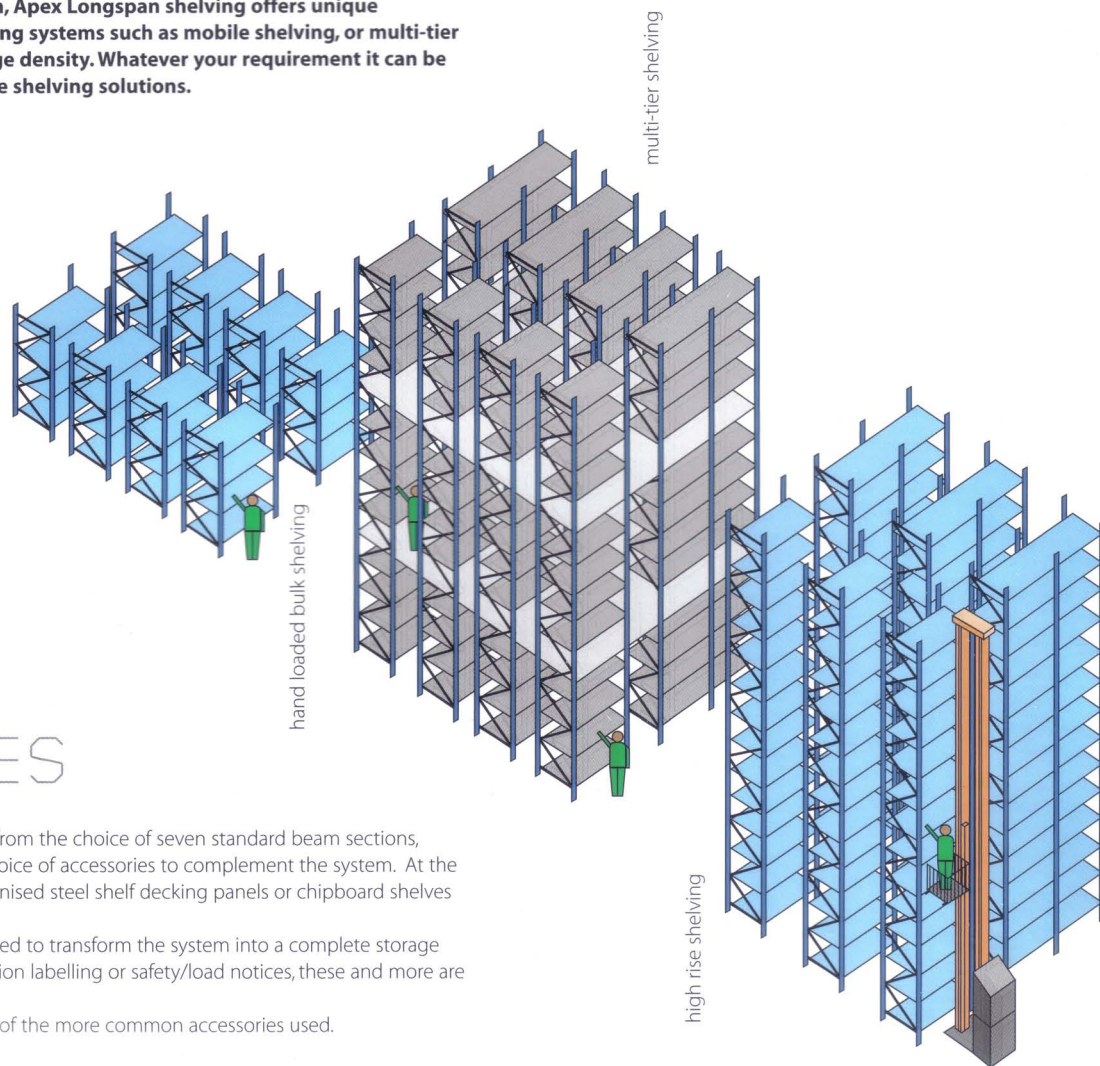
Meeting required legislative safety standards is critical for all our customers. Apex Pallet Longspan shelving and accessory equipment and accessories are designed and manufactured in accordance with all major European and British quality approval systems (ISO 9000) and meet (and in many cases exceed!) all standards set by SEMA (Storage Equipment Manufacturers' Association), FEM (European Federation of Handling Industries) and SHEDA (The Storage and Handling Equipment Distributor Association).



A LONGSPAN SYSTEM TO SUIT ANY APPLICATION

Apex Longspan Shelving Systems provide a wealth of versatile options to suit standard applications equally well as the specialist applications illustrated across these pages. The broad range of applications illustrated provide an excellent choice of storage solutions that utilise the standard range of basic components to their full potential.

In areas where space is at a premium, Apex Longspan shelving offers unique solutions for high density storage by using systems such as mobile shelving, or multi-tier installations to achieve maximum storage density. Whatever your requirement it can be achieved with Apex Longspan adjustable shelving solutions.

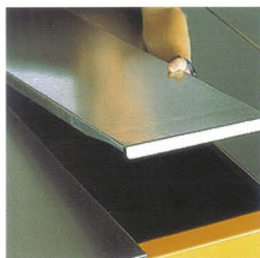


ACCESSORIES

Shelf/beam options make the system, apart from the choice of seven standard beam sections, available as standard. There is also a wide choice of accessories to complement the system. At the heart of the system there is a choice of galvanised steel shelf decking panels or chipboard shelves for the storage of bulky or awkward items.

All of the accessories available can be used to transform the system into a complete storage facility whether it's the addition of identification labelling or safety/load notices, these and more are all available to complement the system.

The following are an indication of some of the more common accessories used.



galvanised steel decking

A combination of panel widths are used to form the shelf surface to create large volume heavy duty storage, 1000kg load (udl) per shelf being average. These provide long uninterrupted spans for heavy duty storage requirements.



garment hanging rails

One of the many applications of Longspan shelving is within the clothing industry. Hanging garment rails can be easily fitted within the system to accommodate the variety of solutions required in those areas.



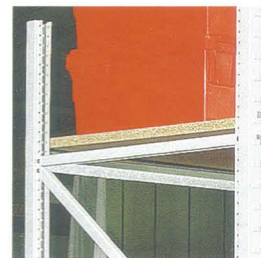
row spacers

To increase stability back to back frames can be joined together using row spacers (up to a maximum of 450mm), thus increasing the versatility and adaptability of the product. Used in conjunction with bolting the frame feet to the floor, all Longspan shelving should be installed in accordance with SEMA guide lines.



splice sets

Apex Longspan shelving is a modular storage system that incorporates flexibility as well as strength in its structure. Should a customer require to extend an existing installation it can be done easily by adding more shelf levels or by increasing frame heights. Splice sets can be bolted onto the uprights as and when required.



chipboard/timber decking

Used as an alternative to galvanised steel decking panels, timber panels form the shelf surface where loadings or the environment permit their use.



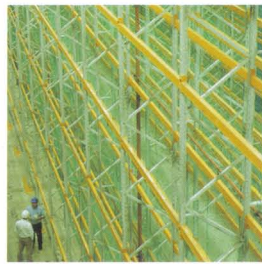
longspan steel decking

The most versatile adjustable system that can be incorporated for use in a broad spectrum of storage applications. Generally used for the storage of non-palletised goods that are held in bulk quantities or are otherwise awkward to store and where heavy loadings are required.



multi-tier shelving

Raised storage platforms are a cost effective method of fully utilising the available headroom within a building. Longspan shelving at floor level supports the level and flooring/walkways above which are also fitted with shelving. With adaptability at the very core of its design, Apex Longspan shelving can be used in two-tier and three-tier structures.



high rise shelving

Using the upright frames combined with the appropriate structural bracing, heights of up to 9 metres in a single section can be achieved. The shelving can then be used in conjunction with specialist order picking equipment.



mobile longspan shelving

Systems such as multi-tier and high rise shelving allow the floor space available to be used to maximum effect. However, if headroom is restricted or specialist order picking equipment can not be used, Longspan shelving can be placed on powered mobile or hand cranked mobile bases.



carton live storage

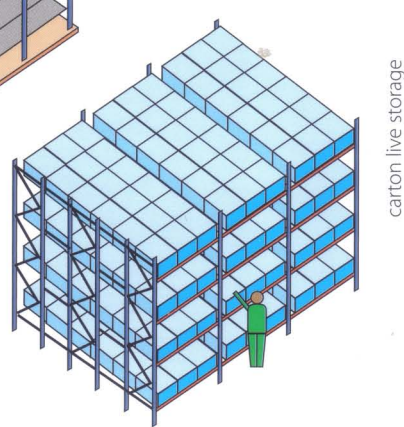
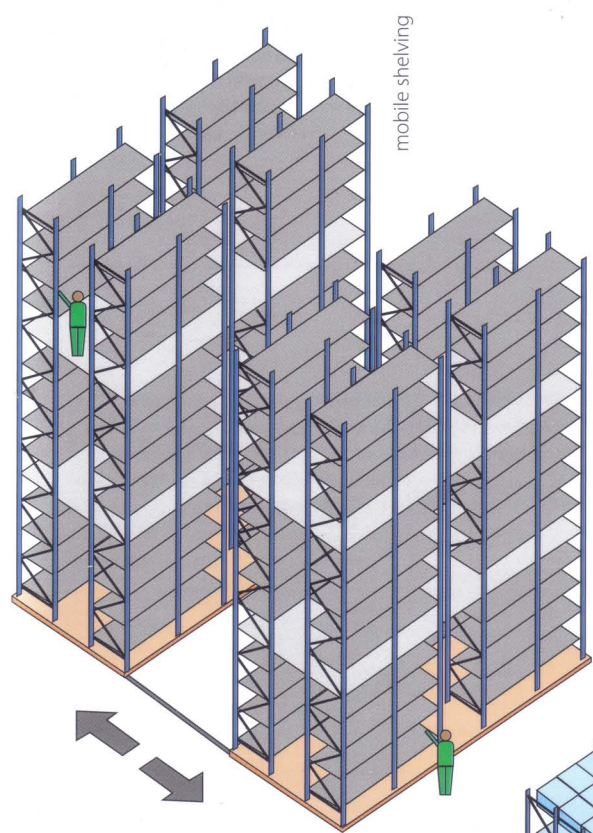
Apex Longspan shelving is an effective medium to support carton live storage beds (tracks fitted with plastic rollers, normally two to three tracks widths under cartons) which allow boxes or cartons to be densely stored. Stock rotation is automatic as the first carton loaded is the first to be picked therefore stock will not age within the system.

how to choose a system



The following easy-to-follow chart may be used as a guide to highlight the main features and some benefits of the range of shelving types shown within this brochure.

shelving system	utilisation of floor area	utilisation of cubic space	access to each shelf location	speed of access & throughput	stock rotation	specialised handling equipment	ease of relocation	speed of installation	adjustability of shelf positions
hand loaded bulk shelving			●	●	●		●	●	●
raised storage/rack supported platform	●		●		●		●	●	●
multi-tier shelving	●	●			●			●	●
high rise shelving	●	●	●	●	●	●			●
mobile shelving	●		●		●				●
carton live storage	●		●	●	●		●	●	●



SINGLE-TIER LONGSPAN SHELVING



Longspan shelving provides a versatile, cost effective modular storage solution for large and bulky goods and products. The system is tailored to suit the client's specific requirements and as there are only minimal components (factory-assembled frames, beams and decking panels) the system is quick and easy to install and does not require specialist fitters or installers.



Apex Longspan shelving is a versatile adjustable shelving system that can be used for a wide number of storage solutions ranging from the simplest hand loaded system to the more sophisticated application. As an alternative to the more popular galvanised decking panel some customers prefer to use chipboard panels for the shelving medium.

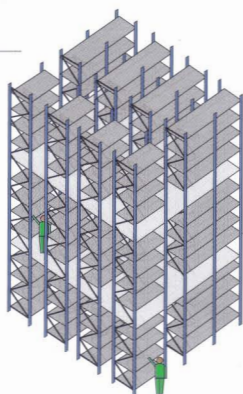
MULTI-TIER LONGSPAN SHELVING



A Multi-tier structure is a cost-effective method of utilising both the height within a building and the available floor space to its utmost. These structures can comprise of a raised storage platform, two tier or three tier constructions, with walkways and shelving on every level. The shelving at the floor level supports both the walkways and the shelving above. The Apex Longspan system combines a rigid frame-to-beam connection with the tolerances required for the more demanding situations, whilst providing a safe, strong solution for even for the simplest to the most demanding of applications.

features checklist

utilisation of floor area	● ● ●
utilisation of cubic space	● ● ●
access to each shelf level	● ● ● ● ●
speed of access	● ● ● ● ●
stock rotation	● ● ● ● ●
stock control	● ● ● ● ●
specialised handling equipment	● ● ● ● ● required
ease of relocation	● ● ● ● ●
speed of installation	● ● ● ● ●
adjustability of shelf positions	● ● ● ● ●



A typical two-tier shelving installation for the storage of electrical appliances.

CARTON LIVE & MOBILE LONGSPAN SHELVING



By combining the standard structure of longspan and adding steel beds containing lengths of plastic roller tracks, containers or boxes of goods can be densely stored in shelving termed Carton Live. The system brings the goods to the operator on a first-in, first-out basis ensuring stock rotation of products and a constant supply of components to the operator. Carton live storage can be used in warehousing and production areas for applications where dense storage or a fast turnaround of parts and materials are essential.



The requirement for dense storage solutions can be varied and depend upon space and height availability. In circumstances where headroom and floor space are restricted then Apex Longspan shelving can be easily adapted to fit mobile bases to provide a simple yet effective solution for storage of large and bulky products or materials.

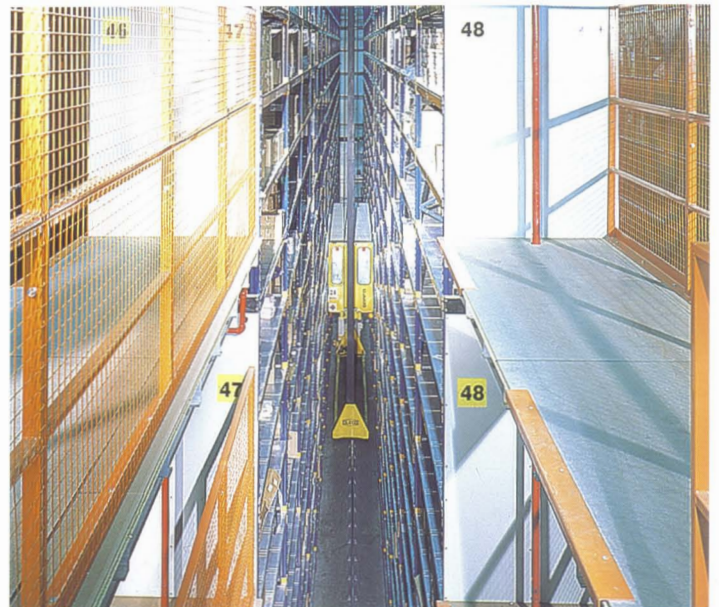
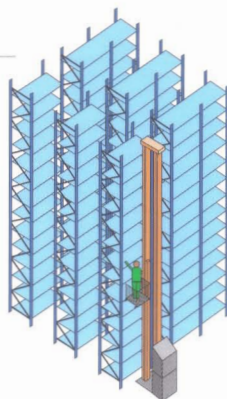
HIGH RISE LONGSPAN SHELVING



Apex Longspan shelving frames can be manufactured in heights of up to 9metres in length, and as with multi-tier shelving the system can be designed for use with sophisticated order picking equipment. The individual access to shelf levels is excellent and as the storage locations can only be reached by order picking equipment then security of stock is enhanced. This application also has benefits in the use of floor space and building height.

features checklist

utilisation of floor area	● ● ●
utilisation of cubic space	● ● ● ● ●
access to each shelf level	● ● ● ● ● ● ● ●
speed of access	● ● ● ● ● ● ● ●
stock rotation	● ● ● ● ● ● ● ●
stock control	● ● ● ● ● ● ● ●
specialised handling equipment	not required
ease of relocation	● ● ● ● ● ● ● ●
speed of installation	● ● ● ● ● ● ● ●
adjustability of shelf positions	● ● ● ● ● ● ● ●



A typical example of an order picking truck operating in a high rise shelving installation



STORAGE DESIGN LIMITED



STORAGE DESIGN LIMITED
Primrose Hill
Cowbridge
South Wales
CF71 7DU

Tel: 01446 772614

Fax: 01446 774770

email: info@storage-design.co.uk

web 1: www.storage-design.co.uk

web 2: www.storage-design.ltd.uk

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