



Leading UK Manufacturer, supplier & installer  
of industrial racking



## CANTILEVER RACKING

Racking that offers you a smart and robust solution to tackle your storage challenges head-on.







Over 55 years ago stakapal began to develop its credentials as a major force within the uk market place at that time for steel construction and fabrication work. Very soon after, The business began the journey of developing cantilever racking technology having a flexible and responsive attitude To the needs of the customer.

Our aim is to always ensure that we maximise the benefits of our product design in terms of engineering, quality and cost effectiveness.

## **STAKAPAL CANTILEVER SYSTEMS ENGINEERED EXCELLENCE...**

### **AN ECONOMIC DESIGN WITH MAXIMUM SAFETY**

Stakapal's unique Cantilever Racking system was designed to ensure that the strongest and most robust box structure became available to our expanding list of clients who store long product loads across a wide and diverse set of market sectors. No matter how simplistic or sophisticated the requirements may be, we develop every time a specific made to measure system to suit your exacting needs. The high demand placed on storage of long commodities requires extensive experience. Stakapal has gained years of knowledge which is evident in its quality of engineering and design.

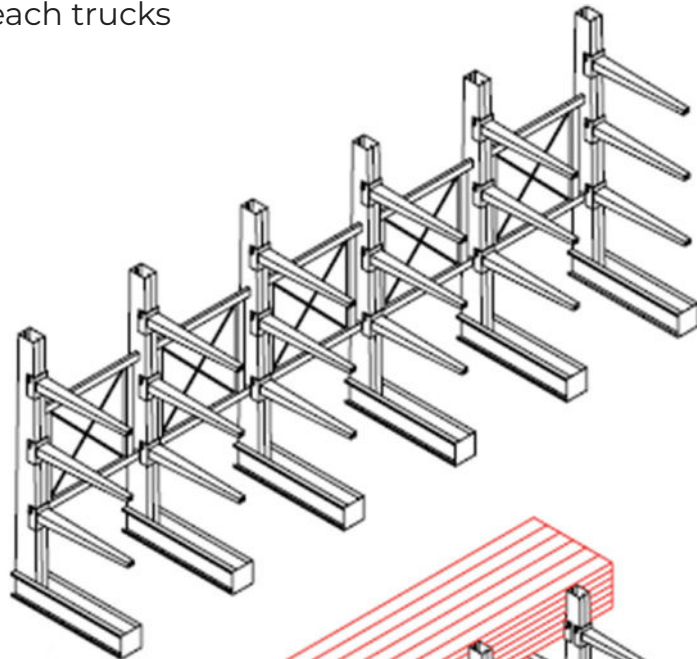


## CONVENTIONAL CANTILEVER RACKING

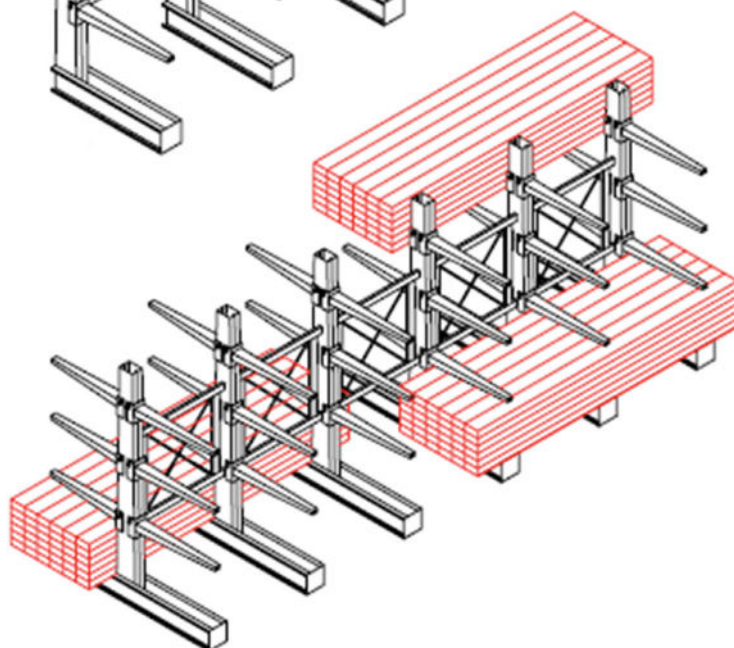
Conventional Cantilever Racking is the most commonly used system and designed for storage of a multitude of long products. The structure can be supplied as single or double sided runs supported by aisle feeding racks either side or stand alone runs to suit customer requirements.

- 100% accessibility to individual packs
- Highly versatile adjustable arms means that the system can be designed to suit any pack size to maximise space utilisation
- Adaptable for use with conventional forklift trucks, side loading type trucks or multi-directional reach trucks
- Easily installed or repositioned

Single Sided Cantilever Racking



Double Sided Cantilever Racking







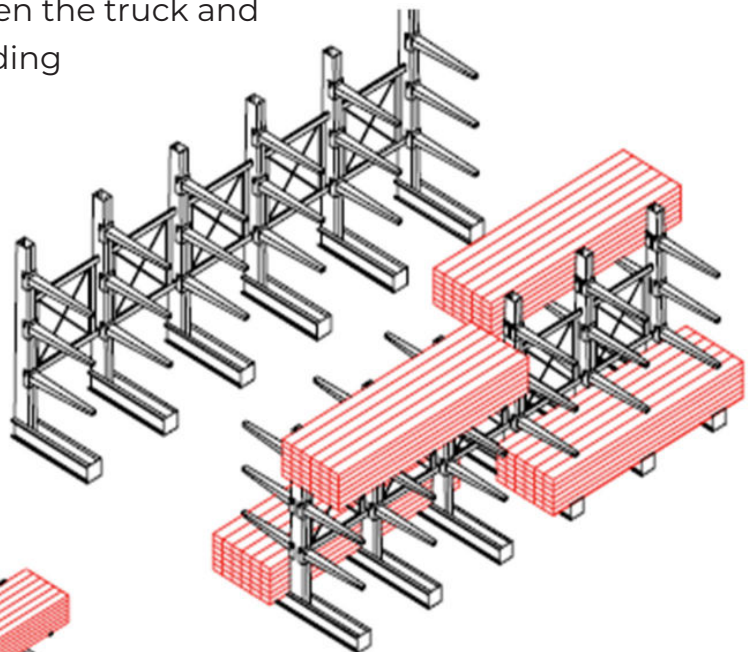


## FREE-PATH CANTILEVER RACKING

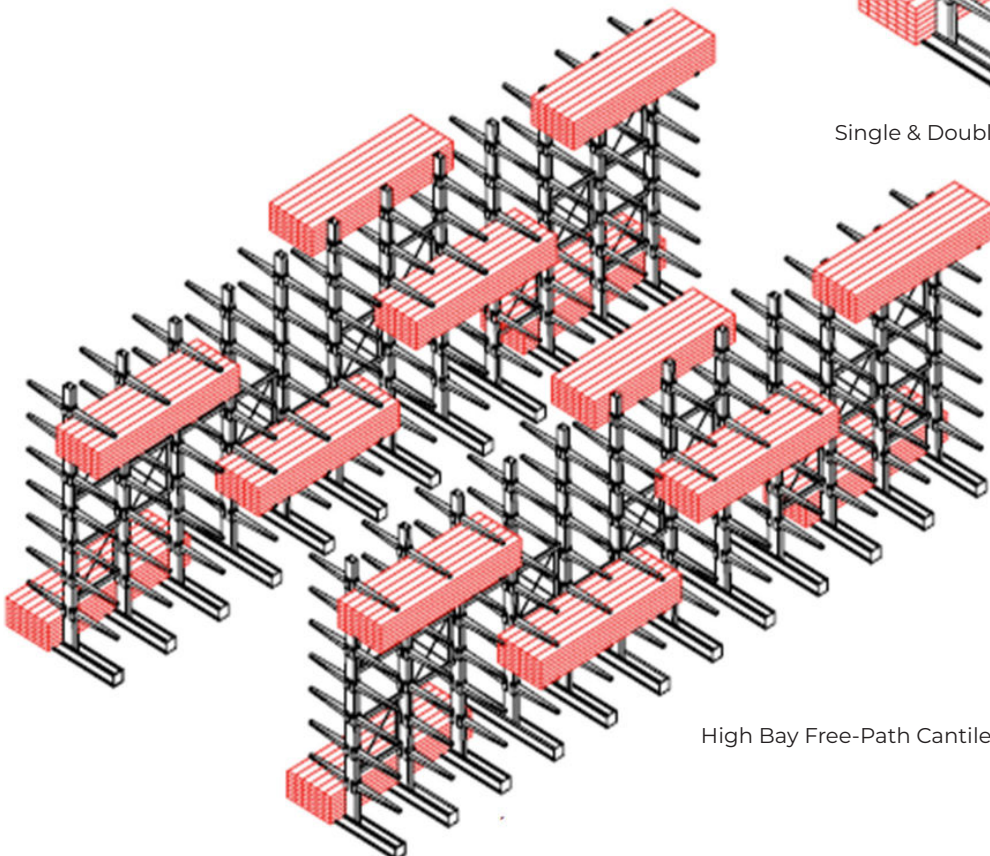
Free-Path Cantilever Racking in principal is similar to conventional Cantilever Racking. Free-Path systems consist of rows of racking adjacent to each other separated by an aisle that enables handling equipment to travel the length of the aisle without any guidance system.

A key factor when operating a Free-Path system is to ensure that there is adequate clearance between the truck and the racks to allow safe and effective loading and unloading of the racks.

- 100% accessibility to individual packs
- Less distance for truck to travel
- Can be used with side loading type trucks, conventional forklift trucks or multi directional reach trucks
- Easily installed or repositioned



Single & Double Sided Free-Path Cantilever Racking



High Bay Free-Path Cantilever Racking





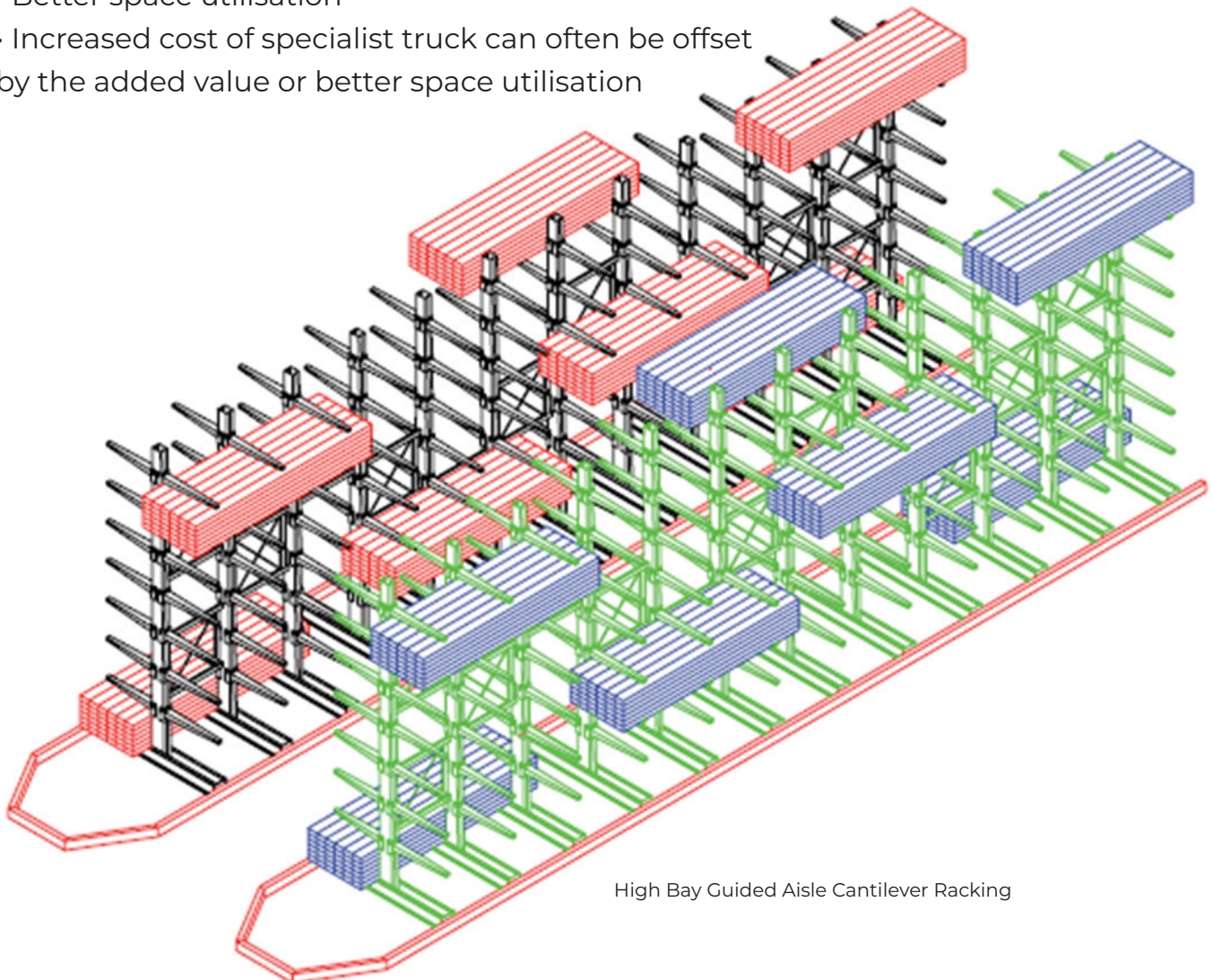


## GUIDED AISLE CANTILEVER RACKING

Guided Aisle Cantilever Racking consists of the same basic components as Conventional and Free-Path systems, but with runs positioned closer together to eliminate the waste of space of a wide aisle. Long load products can be stored to a far greater height to ensure cubic space is utilised to the full.

Long load products are accessed using specialist trucks which are guided by guide-rail systems to avoid damage to the rack structure.

- 100% accessibility to individual packs
- Configuration provides higher density than that of conventional Free-Path systems
- Specialist side loading trucks or multi-directional reach trucks are required to operate within reduced aisle widths
- Better space utilisation
- Increased cost of specialist truck can often be offset by the added value or better space utilisation



High Bay Guided Aisle Cantilever Racking







## KEY STRUCTURAL COMPONENTS

STAKAPAL'S CANTILEVER SYSTEM IS BASED UPON EXTENSIVE RESEARCH AND DEVELOPMENT OVER MANY YEARS, DESIGNED AND BUILT TO EXCEED SEMA (UK) AND EUROPEAN STANDARDS.

### COLUMNS

- Box type construction maximises resistance to torsional buckling from twist.
- Unique tapered column design with taper equivalent to the deflection of column under single sided loading.
- Base end plates fitted as standard presenting a clean flush finish to the loading aisle with no sharp edges. Can also be punched to accept mounted guide rail for guided aisle installations.
- Slots are punched as standard in double sided pattern allowing conversion from single sided to double sided to meet changing requirements.

### ARMS

- Tapered arm construction offers increased clearance height at the front end of the arm to improve ease of loading.
- The tapered arm structure also results in a very economical design concentrating the largest section in the most effective place at the heel of the arm.
- Wrap around connector design optimises transfer of load into column.
- Simple and effective wedge pin system maximises adjustability and makes arm relocation very quick and easy.
- A wide range of lengths available 600mm - 2100mm to suit individual needs of the customers storage requirements.



#### CHARCOAL

Standard finish for columns  
& braces

#### STAKAPAL RED

Standard finish  
for arms

#### GALVANISED

Hot dipped galvanised  
for outdoor applications



## ACCESSORIES

### ARM CROSS BEAM SUPPORTS



Provide uninterrupted storage for awkward products and maximise lateral utilisation of space when storing packs or pallets of varying sizes.

### ARM CROSS BEAM SUPPORTS



Give extra protection when loading delicate goods or products that are more susceptible to damage. Can also be used as a labelling plate to the front of the arm.

### ARM CROSS BEAM SUPPORTS



Maximise loading capacity of decking if positioned on top of supports or give continuous and uninterrupted storage for varying products at base level.

### ARM CROSS BEAM SUPPORTS



Available in various gauges according to the product being stored. Help prevent unbanded goods from potentially rolling off and contribute to operating safety.

## OTHER APPLICATIONS



High Bay Cantilever Racking



External Cantilever Racking with Canopy



Cantilever Racking Supporting structure for Timber Sheds



## CONCEPT

CONSULTANCY  
PLANNING  
FINANCING

## TECHNOLOGY

STATIC SYSTEMS  
DYNAMIC SYSTEMS  
STEEL CONSTRUCTION

## SERVICE

DESIGN  
MAINTENANCE  
INSPECTION SERVICES  
INSTALLATIONS  
TRAINING  
SPARE PARTS

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