

Greater clear spans for  
design flexibility

Open web design  
for easy services installation

Lightweight, strong and  
easy to install

Span flexibility with  
trimmable ends

Fixing surface provides a  
truly quiet floor

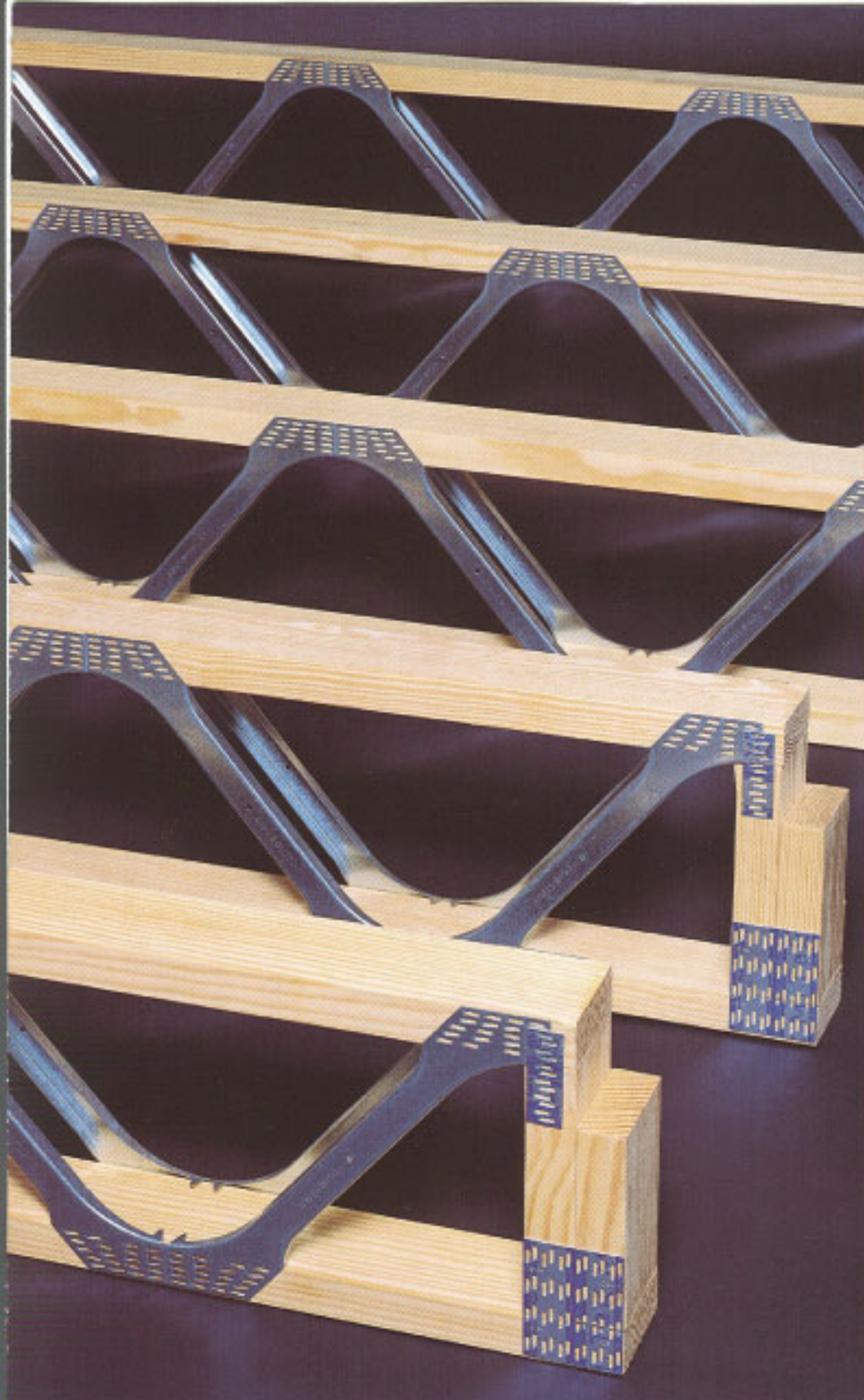
Engineered for consistent  
quality and reliability

Clear profit with savings in  
labour, time and materials

**THE CLEAR  
ADVANTAGES OF  
POSI-JOIST™**

**MiTek**  
MiTek®



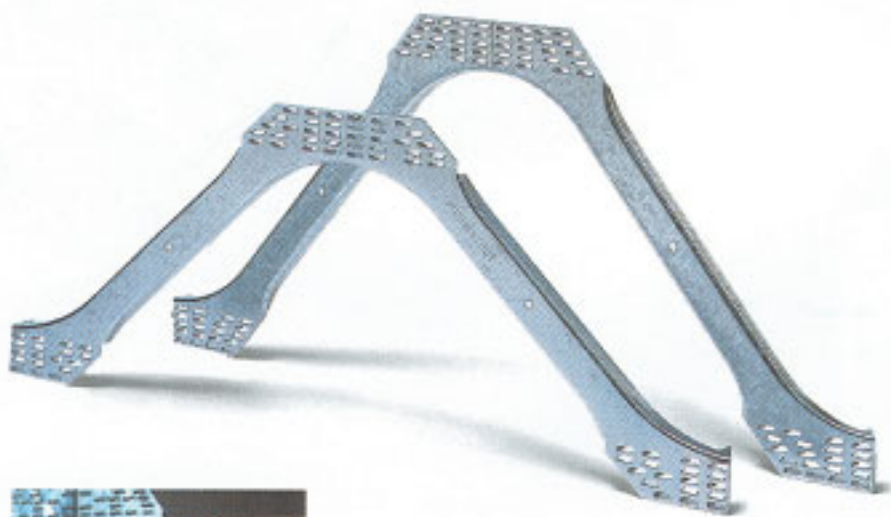


Posi-Joist™  
Positively engineered for a better floor

**MITEK**  
**POSI-JOIST™**  
**STEEL WEB SYSTEM**







You simply can't afford to ignore the advantages of the Posi-Joist™ system.

To start with, because Posi-Joist™ combines the lightness of timber with the strength of the Posi-Strut® steel web, you can span far greater distances than would be possible with alternative timber products.

This gives you unequalled design freedom across a wide range of applications for both floor and roof in domestic, industrial and commercial applications. The Posi-Joist™ allows a variety of internal room layouts within an external shell due to its clear spanning capabilities.

**THE ALTERNATIVE  
JOIST SYSTEM**



## ECONOMY

The Posi-Joist™ ability to span greater distances than its timber competitors and the fact that they are fully competitive with steel and concrete beams makes it immediately obvious that they offer considerable savings in raw materials. The open web design, gives the contractor another important advantage: it makes installation of service and utilities far simpler and quicker, reducing both labour costs and build-up time on site.

What's more, since they eliminate the need for load-bearing intermediate walls they dramatically cut overall building costs.

Quite simply, there's no more efficient or economical way to construct floors and roofs.

## FLEXIBILITY IN USE

Design flexibility is inherent in the concept of the Posi-Joist™. The depth, length and specification can be adjusted to produce an enormous number of different specifications, each with clearly defined performance criteria. In addition, end details of the beam can be altered to give a variety of support conditions.

You will never come up short with the POSI-JOIST™ 'Trimable End'. Each end can be engineered with a 150mm trimmable solid block, allowing bearing location discrepancies to be remedied with simple on-site trimming.

## EFFICIENCY



Exceptional floor performance from a minimum 72mm wide fixing surface makes flooring easy, controls shrinkage, and with precision engineering it all reduces those tiresome return visits and remedial work.

## FLOORS

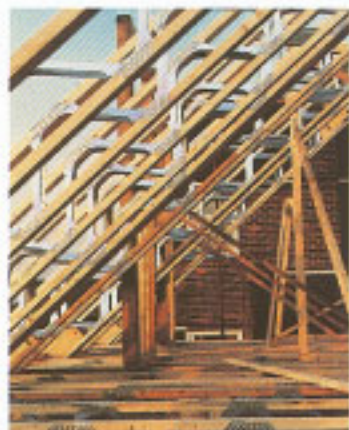
More....benefits such as the unique open web design provide an area in which Plumbers and

There when you need it... POSI-JOIST's 'Trimmable End' provides field cutting flexibility!



Electricians will find it easy and convenient to work. The job's done far more quickly and the contractor makes worthwhile savings.

Even on long spans, no herring bone strutting is necessary with the Posi-Joist™ system. If the span exceeds 4m, a strong-back is installed at mid-span.



The Posi-Joist™ does not just joist floors it can adequately span for flat and pitched roofs.

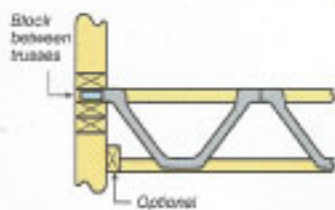
## ROOFING

Its span capability and timber flanges make it the more desirable alternative to all steel systems

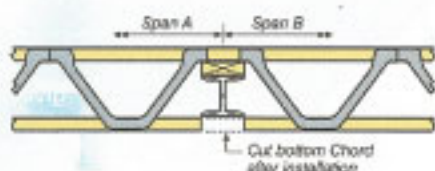


## FLOOR TRUSS DETAILS

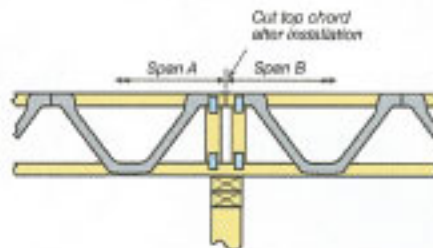
External Top Chord Bearing



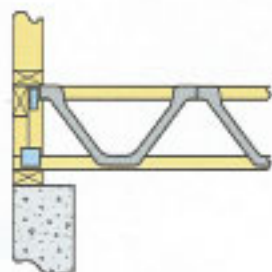
Intermediate Top Chord Bearing



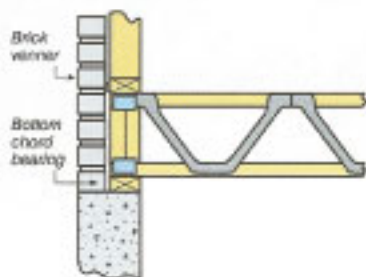
Intermediate Simple Span



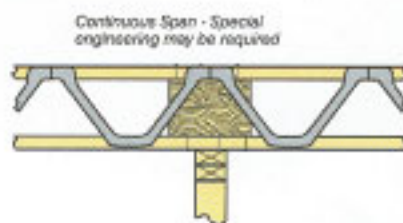
Bottom Chord Bearing - External Frame



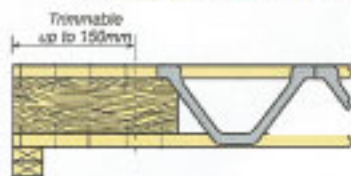
Bottom Chord Bearing - Masonry Wall



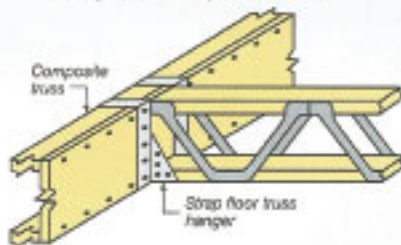
Intermediate Block Bearing



POSI-JOIST Trimmable End

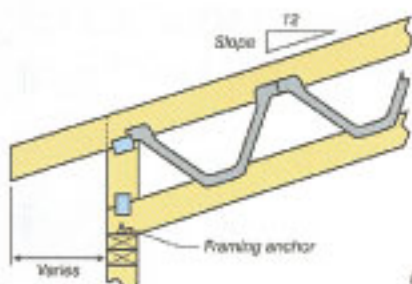


Hanger on Composite Girder

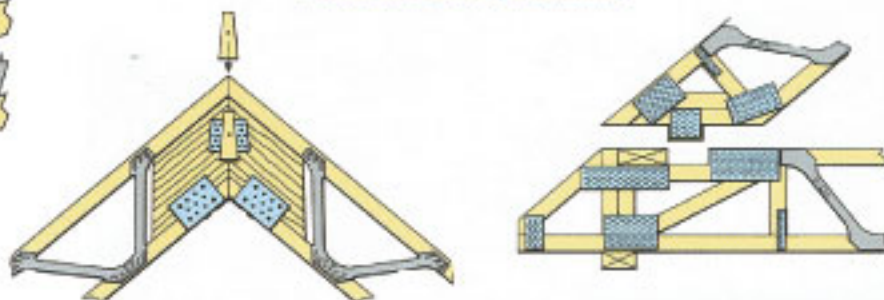


## ROOF TRUSS DETAILS

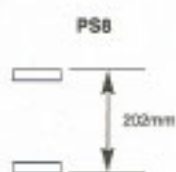
Bottom Chord Bearing - Overhang



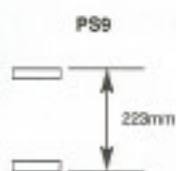
Type of assembly of truss foot:  
Posi-Joist with the principal rafter on roof beam and return of load moving horizontally



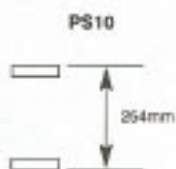
## TYPICAL FLOOR AND ROOF SPANS OVER BEARING



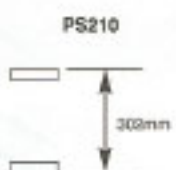
Spacings	Timber Flange TR26	Max Span
400	72 x 47 97 x 47	5.100 5.580
600	72 x 47 97 x 47	4.310 4.720



Spacings	Timber Flange TR26	Max Span
400	72 x 47 97 x 47	5.220 5.710
600	72 x 47 97 x 47	4.330 4.730



Spacings	Timber Flange TR26	Max Span
400	72 x 47 87 x 47	5.980 6.550
600	72 x 47 87 x 47	4.760 5.520



Spacings	Timber Flange TR26	Max Span
400	72 x 47 97 x 47	6.920 7.800
600	72 x 47 97 x 47	5.550 6.640

#### Applied Loadings

Imposed Load	1.5 kN/m <sup>2</sup>
Partition Load	0.25 kN/m <sup>2</sup>
Floor Deck	22mm Chipboard
Ceiling	12.5mm Plasterboard



All the above spans are achieved with a pre-cambered joist.

Joist are also available with both PS14 and PS16 Steel Webs and greater spans can be achieved using larger section timber.

This brochure and these spans are an overview of the Posi-Joist.

Full load and detail information is available from your local Posi-Joist manufacturer or MiTek Industries.

**AUTHORISED POSI-JOIST™ MANUFACTURER**

MiTek Industries Ltd  
MiTek House  
Grazebrook Industrial Park  
Peartree Lane  
Dudley, DY2 OXW  
Tel: 01384 451400  
Fax: 01384 451411

**MiTek**<sup>®</sup>