

## Recommended Joint Details

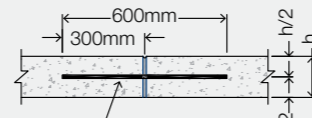
### Sawn induced joint (SIJ)

Sawn induced joint to be cut within 24 hours of concrete placement



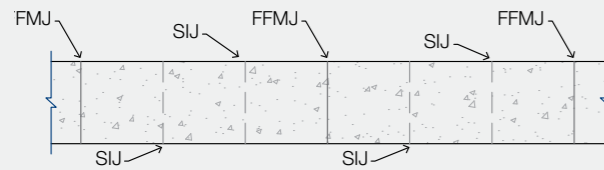
Saw cut to minimum of 1/3 slab depth or 50mm. Appropriate sealant should be used to fill and protect the joint.

### Formed free movement joint (FFMJ)



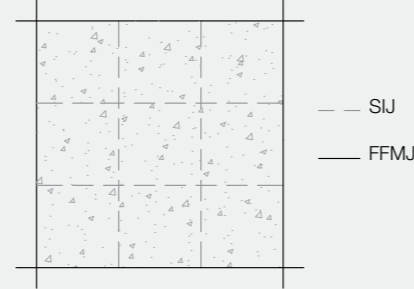
R16 @ 400mm c/c debonded dowel joint. Compressible material to one side of dowel bar.

### Long strip construction joint layout



Re-entrant corners and columns should be isolated from the slab.

### Flood pour joint layout



## Warranty

A comprehensive warranty is available on request which warrants the performance of CEMEX Advanced Flooring when placed in accordance with the recommendations and joint details in this brochure and is not subjected to loads in excess of the design assumptions.

## Health and Safety

Contact with concrete may cause irritation, dermatitis or severe alkali burns. There is a serious risk of damage to the eyes. Wear suitable waterproof protective clothing, gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. After contact with skin, wash immediately with plenty of clean water. Keep out of reach of children. Contains Chromium (VI), may cause allergic reaction. For a detailed datasheet please visit the health and safety section of our website: [www.cemex.co.uk](http://www.cemex.co.uk)

## Sustainability Commitment

As a company, CEMEX UK embraces the challenges of sustainable development, striving to be socially, economically and environmentally responsible in everything

we do to safeguard the needs of future generations. CEMEX Readymix use efficient automated batching systems reducing waste water discharge. Other similar systems are in place for stone washing and aggregate reclaim and finally during production operations water is extracted at many of the plants.

## CEMEX

CEMEX is the world's leading supplier of readymix concrete and has an international reputation for innovative concrete solutions. CEMEX Readymix produces a full range of mixes designed for specific applications in the commercial, industrial and civil sectors. These include fibre concretes and Evolution™ a range of self-compacting concretes with free-flowing and self-levelling characteristics.

## Propex

Propex is the worldwide leader in fibre reinforcement solutions. Propex set the standard for performance, value and reliability in concrete reinforcement fibres. They offer a complete line of fibre solutions including Fibermesh micro synthetic fibres, Novomesh blended fibres, Enduro macro synthetic fibres and Novocon steel fibres.

CEMEX UK Operations Ltd,  
CEMEX House, Evreux Way,  
Rugby, Warwickshire CV21 2DT  
Tel: 0800 667 827  
Email: [gb-enquiries@cemex.com](mailto:gb-enquiries@cemex.com)  
[www.cemex.co.uk](http://www.cemex.co.uk)



Propex Concrete Systems Ltd  
Propex House, 9 Royal Court Basil Close,  
Chesterfield, Derbyshire S41 7SJ  
01246 564200  
[www.propexglobal.com](http://www.propexglobal.com)



# INTERIOR FIBRE REINFORCED CONCRETE

In an increasingly competitive environment with ever tighter margins, speed and efficiency are key to delivering successful projects and satisfying the high demands of your clients.

CEMEX, in conjunction with Propex, have developed **CEMEX Advanced Flooring** – a fibre-reinforced concrete for internal ground supported slabs – which needs no steel mesh. This delivers a significant reduction in reinforcement costs as well as faster and easier placement.



CEMEX, the world leader in readymix concrete, have joined forces with Propex, specialists in fibre reinforced concrete. The result is **CEMEX Advanced Flooring** – a carefully selected combination of fibre reinforcement, combined with an expert mix design – which provides a unique mesh-free concrete, designed specifically to meet the demands of internal ground supported slabs.

CEMEX Advanced Flooring is manufactured in closely controlled, quality-assured readymix plants throughout the UK and is readily available from all of CEMEX's 240 plants. The product is delivered in traditional readymix concrete delivery vehicles and requires no special handling when it arrives on sites.

### Applications

CEMEX Advanced Flooring can be used in a wide variety of demanding applications:

- » General industrial flooring
- » Workshop flooring
- » Farm buildings
- » Domestic flooring

### Key features and benefits

- » Concrete and reinforcement is placed in one application
- » Concrete is supplied with the exact amount of reinforcement that is required (no wastage)
- » Reduces the need to store, cut, place and fix steel reinforcing mesh on site
- » Can show an overall cost saving compared to traditionally placed concrete

### Technical Data

CEMEX Advanced Flooring can be specified and installed based upon the following load and construction recommendations:

Solution	Slab Thickness (mm)	Maximum Point Load (t)	Maximum Fork Lift Capacity (t)	Maximum Wall Load (t/m)	Maximum Joint Spacing (m)
CEMEX Advanced Flooring 150	150	3	2	1	6
CEMEX Advanced Flooring 175	175	4	3	2	6
CEMEX Advanced Flooring 200	200	5	4	3	7

Design assumptions;

- » Point load applied on a base plate with minimum dimensions of 125mm x 125mm
- » Recommend joint layout and detailing as detailed overleaf.
- » Minimum sub base CBR 5%.
- » For loadings outside parameters shown above please contact us for further guidance.

### Installation

CEMEX Advanced Flooring can be placed using conventional placing techniques such as direct discharge, skip or pump and there are no special handling requirements.

In order to achieve the best performance from CEMEX Advanced Flooring it is essential to ensure that the concrete is fully compacted and properly cured immediately after the concrete is placed and finished. It is strongly recommended that a curing membrane is applied to the concrete to prevent any moisture loss from the concrete to ensure that the concrete reaches its full potential.

### Cost savings

Using CEMEX Advanced Flooring can lead to significant reductions in reinforcement costs in addition to the savings associated with faster and easier placement. The table below indicates typical savings compared to a range of traditional mesh solutions.

Solution	Mesh Type			
	A142	A193	A252	A393
CEMEX Advanced Flooring 150	5%	7%	12%	20%
CEMEX Advanced Flooring 175	3%	5%	9%	14%
CEMEX Advanced Flooring 200	1%	3%	6%	10%

Cost Comparison Table – typical savings on reinforcement compared to traditional mesh solutions



1. Industrial floors  
2. Warehouse floors  
3. Domestic floors