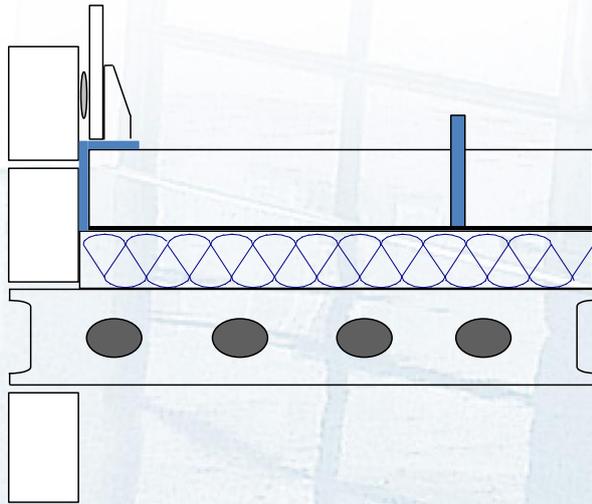


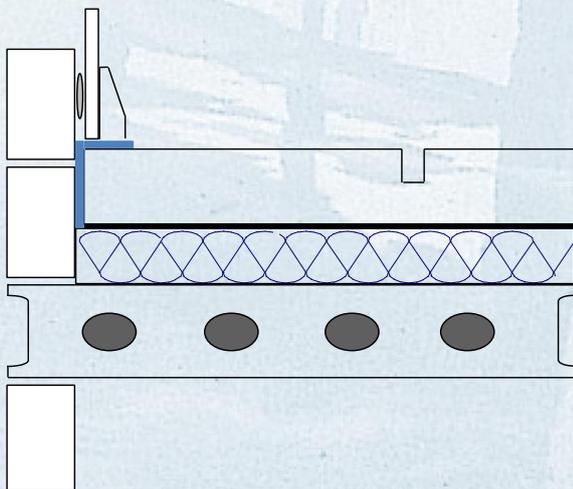


Joins



Expansion joints can be made using pre formed 8 or 10mm closed cell Polyethylene foam with a self adhesive t-bar base known as a vertical control joint. Joints may be needed due to large areas, door thresholds or in between under floor heating circuits, this detail is particularly well suited to under floor heating as it eliminates cutting the screed.

- Insulation, DPM and Edge detail installed as Normal.
- Joint strip attached to DPM where expansion joints are required using self adhesive base, they should also be secured using additional screed tape to improve bond.
- Where the strip meets either walls or door frames these joints should be sealed using tape.
- Install Screed as per Gyvlon Installation Guide and Gyvlon NBS M13 Specification
- Once the screed has cured the joint Strip can be trimmed to screed level using a suitable knife.



Contraction joints can be cut into the screed following its installation.

- Insulation, DPM and Edge detail installed as Normal.
- Install Screed as per Gyvlon Installation Guide and Gyvlon NBS M13 Specification
- Saw cuts should be formed as early as possible following the screed being installed (2-3 Days)
- Saw cuts should be made to half the screeds depth using a floor saw with suitable blade.
- Saw Cuts should be a minimum of 5mm wide
- Joints can be filled using a flexible sealant.

Note: Saw cut joints should be avoided when using under floor heating, for under floor heating joint please see preformed joints.

Note: For maximum bay sizes and dimensions please see Gyvlon Installation guide, or contact our team of Technical Specification Managers



Bay Sizes, Expansion Joints & Edge Detail

Gyvlon screeds are suitable for application to all structural substrates. Gyvlon has excellent dimensional stability (Maximum shrinkage/expansion while drying of 0.02%) but will still require expansion joints based on the criteria below.

MAXIMUM BAY LENGTH

Floating on Insulation	40m
Unbonded/Bonded	40m
Underfloor Heating	20m

MAXIMUM BAY SIZES

Floating on Insulation	1000m²
Unbonded/Bonded	1000m²
Underfloor Heating	300m²

ASPECT RATIO

Unheated	Max 8 : 1
Heated	Max 6 : 1

Edge Detail

The perimeter strip recommended for use with Gyvlon screeds is minimum 8mm (10mm with under floor heating) closed cell polyethylene with an attached polythene skirt, this thickness relates directly to the maximum allowable positive movement within the screed.

Eg. 40m bay length x 0.02 Maximum expansion = 8mm expansion zone

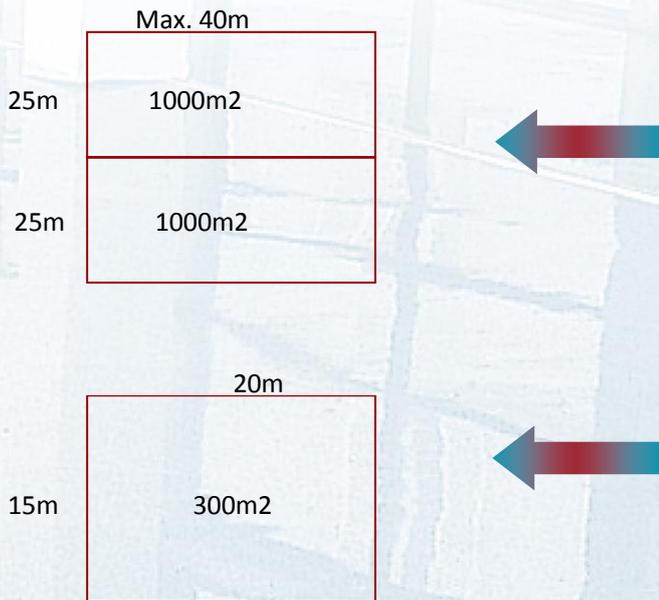
As with all types of screed a joint must be formed above all structural movement joints



Bay Sizes, Expansion Joints & Edge Detail

EXPANSION JOINTS

On larger pours the following guidelines should be used when considering the layout of expansion joints.



NORMAL SCREEDING CONDITIONS

A bay joint is required at this position as the total screed area is in excess of 1000m²

Note: As with all types of screed a joint must be formed above all structural movement joints

SCREEDING CORRIDORS

Particular attention should be paid to corridors, aspect ratio must be adhered to and joints may be required where change in direction occur

UNDERFLOOR HEATING

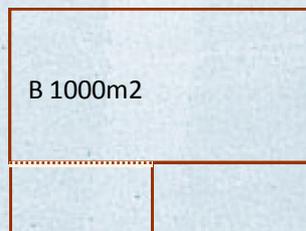
Gyvlon recommends that the maximum bay size when used in conjunction with for underfloor heating is 300m². However it is important to note that a joint should be present between two independent heating zones and door thresholds to allow for thermal movement within the screed and differential temperature gradients.

Note: A joint should be allowed for at the interface between heated and un-heated screeds

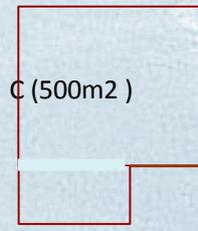
It is also necessary to note that the shape of the room can also affect the requirements for bay joints. The following guidelines highlight our recommendations with regards to placement of joints in relation to the shape of the room and area screeded



No joint required as the proportional area is the main bay and the corner reflects into this space



Joint required as the corner makes up over 50% of the areas length



No joint required unless specified as a construction or day joint. Corner is under 50% of length

N.B. Corridor returns may require an expansion joint. Please contact the technical team for information