

# Design Data

Roadstone Quick Floor Screed is a high quality free flowing, self compacting anhydrite floor screed which offers huge benefits to all aspects of a construction project including to screed installers, builders, underfloor heating designers, main contractors and clients alike.

Our aim is to make it easy for specifiers to select Roadstone Quick Floor Screed as their flooring screed of choice. In order to ensure that your design utilises screed in the optimum manner it is important for designers to have relevant design information available. This datasheet goes through the simple steps to ensure that Roadstone Quick Floor Screed is specified, designed and installed correctly for the application in which it is being used.

## Minimum Depth

|                    |            |                     |
|--------------------|------------|---------------------|
| Floating           | Domestic   | 35mm                |
|                    | Commercial | 40mm                |
| Unbonded           |            | 30mm                |
| Bonded             |            | 25mm                |
| Underfloor heating |            | 25mm cover to pipes |

In all cases the nominal depth should be as close to the minimum depth as possible to avoid excessive drying times. Suitable insulation can be used as a void filler where deeper floor sections are required.

## Bay Length

|                    |            |     |
|--------------------|------------|-----|
| Floating           | Domestic   | 40m |
|                    | Commercial | 40m |
| Unbonded           |            | 40m |
| Bonded             |            | 40m |
| Underfloor heating |            | 20m |

Consideration should be given to take account of maximum bay length as well as maximum bay size and aspect ratio e.g. a corridor 2m wide will require a joint frequency of 1 joint per 16m if unheated where as a room of 20m x 25m is likely to need no joints.

## Maximum Bay Sizes

|                   |           |                    |                  |
|-------------------|-----------|--------------------|------------------|
| Underfloor Heated | All Cases | 300m <sup>2</sup>  | Aspect Ratio 6:1 |
| Unheated          | Floating  | 1000m <sup>2</sup> | Aspect Ratio 8:1 |
|                   | Unbonded  | 1000m <sup>2</sup> | Aspect Ratio 8:1 |
|                   | Bonded    | 1000m <sup>2</sup> | Aspect Ratio 8:1 |

As with all screeds, joints should reflect structural joints in the substrate.

## Additional Information

To improve and accelerate the drying process the surface laitance of the screed should be removed by light sanding, between 72 hours and 7 days after installation.

Edge strips should be of an extruded polyethylene type with a laminated polythene skirt attached.

The shape of the room and the aesthetic effect on the subsequent floor

coverings should be taken account of when designing joint configurations and bay sizes.

Additional joints must be placed between independently controlled heating circuits, between heated and unheated screed areas and in areas of high thermal gain. Bay joints should be formed using rigid joint formers where possible which can be placed during the preparation phase and will remain in

## Edge Detailing

In common with all screeds Roadstone Quick Floor Screed should be isolated at all edges, abutments and columns. This is to ensure adequate allowance is given to the screed to undergo the maximum positive movement under the application or removal of thermal loadings.

## Edge Strip Width

**Heated Screed:** 8mm (typically 10mm)  
**Unheated Screed:** 5mm

place during operation. Ideally the joint former should be 5mm lower than the finished Roadstone Quick Floor Screed depth to allow a smooth transition in height between bays.