

## [413] LAYING OF GTI SEALING TILES SUBJECT TO TECHNICAL REPORT

Tiles are all laid in the same direction.



Min. ambient temperature: 10 °C

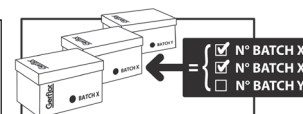


Laying on extra-long double sided adhesive every 500m<sup>2</sup>



Min. surface temperature: 10 °C

Before laying the floor covering, it should be inspected, so as to detect any visual defects.  
In the event of any visual defects, please notify GERFLOR and do not start laying the product before receiving GERFLOR's approval.



If laying GTI tiles in supermarkets, refer to the specific Laying Principle.

### 1. AREAS OF APPLICATION


#### 1.1- LAYING TYPE

#### FOREWORD: CONDITIONS FOR USE

	P RATING FOR NEW AND REFINISHED PREMISES		LAYING METHOD WITH TEMPERATURE CONDITIONS	PERIPHERAL EXPANSION
GTI	U4P4S	P4 premises, also capable of withstanding large stationary or moving loads. Floor care is limited to the use of a self-propelled floor scrubbing machine.	Since the stores are air-conditioned, the floor covering is not subject to temperature deviations greater than 20 °C. The dimensional stability of GTI / GTI Max tiles enables loose laying subject to a 500 m <sup>2</sup> limit.	Due to the year-round heat regulation in the buildings, Gerflor recommends allowing for a 0.5 cm peripheral clearance.

DYNAMIC LOAD RESISTANCE				
Traffic frequency and type	Load according to tyre or wheel type			
	Polyurethane or equivalent hardness	"Solid rubber or pneumatic tyre. This type of machine should not be left on the tiles when idle, so as to prevent dye migration. It should only be used for restocking shelves."		
GTI Routine frequency, typically store stocking and cleaning	<b>Total load per wheel</b>		Electrically or thermally powered handling machinery is liable to give rise to heating-related damage due to wheel skidding. It is advisable to ensure that equipment is suitable for the floor covering structure (e.g.: machinery equipped with an anti-skid system)  Paired wheels are counted as a single wheel when the distance between them (centre distance or track) is < 20 cm.  Metal wheels are excluded.	
	< 1,000 kg	< 2,000 kg		
	<b>Contact pressure</b>			
	< 100 kg/cm <sup>2</sup> (NF P11-101 standard)	Not applicable		
	<b>Total loaded weight</b>			
	< 3,000 kg	< 6,000 kg		
	<b>Speed</b>			
	< 10 km/h			
	<b>Handling</b>			
Stacker, nominal capacity 1,600 kg		Fork-lift truck, nominal capacity 2,000 kg - Car		
<b>Cleaning</b>				
Self-propelled automatic scrubbing machine with on-board operator				

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	STATIC LOAD RESISTANCE		
	MAXIMUM LOAD PRESSURE	HANDLING MACHINERY EQUIVALENCE	
GTI	< 50 kg/cm <sup>2</sup>	< 1,000 kg /Wheel or per support	Due the broad selection of handling machinery, consoles and floor scrubbing machines, it is necessary to account for the various factors listed opposite. For this reason, it is important to know the geometry of the console legs, the wheel type and configuration (single or double), the hardness values and the handling method (with or without on-board operator, speed, acceleration and braking mode).

## 1.2 - TYPE OF PREMISES AND USE

This floor covering is particularly suitable for areas subject to heavy traffic in clean rooms, and production, storage and handling areas. It is not suitable for wet areas (showers, etc.). It should be applied in temperature-regulated premises (store, retail area, etc.).

## 1.3 - SURFACES

### 1.3.1. Preparatory work for new flooring

**MECHANICAL PREPARATION:** The surfaces should be prepared with care so as to remove any soiling, laitance, treatment products or any other foreign bodies.

**BUMP AND DEPRESSION TREATMENT:** Sanding of bumps.  
Cleaning: using industrial vacuum cleaner  
Point levelling of depressions with P4S or P4SR floor sealer.

### CRACK TREATMENT:

On any surface, cracks should be detected beforehand. They are not treated, if they are flush, and if they are < 3 mm wide.

### 1.3.2 - Substrates

NEW CONCRETE SUBSTRATE	
CONCRETE FLOOR	Surface evenness < 7 mm / 2 m or < 2 m / 20 cm Follow subfloor preparation
RENOVATION	
CONCRETE FLOOR PAINTED CONCRETE	Surface evenness < 7 mm / 2 m or < 2 m / 20 cm Follow subfloor preparation
TILES	Surface evenness < 7 mm / 2 m Unevenness < 1 mm The grouting joints < 4 mm and not recessed, otherwise, fill them with a grouting product or levelling compound over the entire surface, so that the grouting joints are not visible (no telegraphing)
RESIN	Surface evenness < 7 mm / 2 m Crack treatment < 1 mm ; if > 1 mm, subfloor analysis is necessary Impact treatment < 10 mm with the same resin
PVC TILES AND COMPACT ROLLS	Degraded area: Less than 10 % on room surface: remove the defective tiles, fill the gaps with levelling compound, and then lay the tiles after the subfloor has dried.
RAISED FLOOR	The floor surface must not have any uneven areas and the joints must not be curved.
BITIMINOUS / ASPHALT	Surface evenness < 10 mm / 2 m, otherwise grind the bump. Static loading < 30 kg/cm <sup>2</sup> , otherwise use load distribution plate
CARPET, LVT, PVC FOAM, LAMINATED FLOOR, LINOLEUM, WOOD-BASED PANEL	<b>Complete removal</b>
UNDERFLOOR HEATING	
UNDERFLOOR HEATING WITH CIRCULATING HOT WATER AT MAXIMUM 28°	Possible
RADIANT ELECTRIC UNDERFLOOR HEATING THE REGULATIONS REQUIRE ≤ 0,15 M <sup>2</sup> X ° KELVIN / WATT	Possible if: Evenness < 7 mm / 2 m and gluing mandatory on all the surface
LOW TEMPERATURE WATER REVERSIBLE UNDERFLOOR HEATING	Possible
<b>If the substrate is not in this list: please contact us.</b>	

## JOINT TREATMENT:

Contraction joint: If they have an opening < 4 mm, they are not treated.

Expansion joint: Following thorough cleaning, expansion joints are preserved: end profiles with or without an overlay are arranged on either side of the joint.

Construction joint: Similar to cracks, if they have an opening < 3 mm, they are not treated.

## LOCALISED LEVELLING:

Surface levelling may be required, particularly where the surface is not sufficiently even or in poor condition.

## Required characteristics on dry surface (moisture content ≤ 4.5%):

The sealer performances should meet P4S or P4SR rating specifications.

**Required characteristics on wet surface (moisture content between 4.5 and 7%):** We recommend the use of outdoor floor sealers (consult sealer manufacturers).

# BUILDING FLOOR COVERINGS

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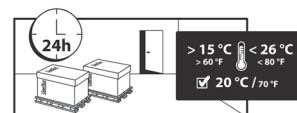
### 2. LAYING

#### 2.1 - STORAGE & WORK CONDITIONS

Before laying the floor covering, it should be inspected, so as to detect any visual defects. In the event of any visual defects, please notify GERFLOR and do not start laying the product before receiving GERFLOR's approval.

Since the stores are air-conditioned, these tiles are not subject to temperature deviations greater than 20 °C. The tiles should be stored on-site for 24 to 48 hours beforehand at ambient temperature.

⚠ DO NOT MIX BATCHES



#### 2.2- LAYING TYPE

Attraction® / GTI / GTI Max tiles can be bonded, but they are essentially intended for loose (non-adhesive) laying, in single pieces limited to 500 m<sup>2</sup>. For larger surface areas, the surface is split into 500 m<sup>2</sup> sections and the joints between areas are sealed with adhesive.

#### 2.3 -DETAILED LAYING

##### 2.3.1 Extra-wide double-sided adhesive positioning

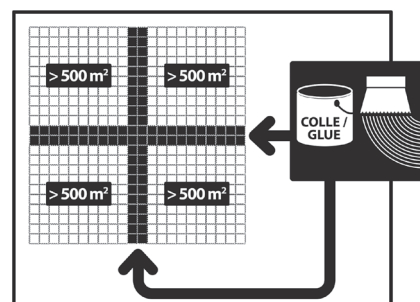
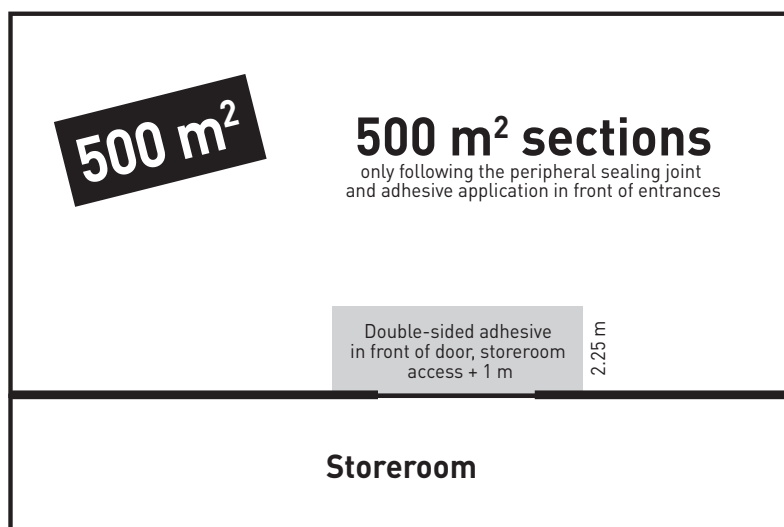
###### Splitting of surfaces into 500 m<sup>2</sup> sections

Since loose laying is limited to 500 m<sup>2</sup>, it is necessary to envisage splitting into 500 m<sup>2</sup> sections by previously applying an extra-wide double-sided adhesive.

Regardless of the configuration, double-sided adhesive should be applied, never exceeding more than **20 rows** of tiles.

Study the layout so as to prevent the position of the double-sided adhesive and the seam between each area from being situated in the main aisles to avoid heavy traffic.

##### • Example of configuration < 500 m<sup>2</sup> (clothing, cosmetics aisles, etc.),



Each 500 m<sup>2</sup> section may include turning or liquid areas, storeroom entrances, also requiring double-sided adhesive application. Avoid locating 500 m<sup>2</sup> demarcation areas in a main aisle.

SUPPORT	PRIMER	TYPE OF ADHESIVE
Hydraulic cement Dryness ≤ 4.5 % moisture (CCM)	Primasol R (BOSTIK) P121 / F78 / Seal Concrete (F BALL) Tec 049 (HB FULLER) Eco Prim T (MAPEI)	Fix&Free 740 from Gerflor
Hydraulic cement Dryness: Moisture content between 4.5 and 7% (CCM)	F78 (F BALL) EPOXY PE 480 UZIN	Fix&Free 740 from Gerflor
	Two-component polyurethane adhesive (with associated primer)	
Tiles	Levelling compound required. For the application of primer on levelling compound, refer to Hydraulic cement	Fix&Free 740 from Gerflor
Resin, old PVC covering	Stripping is necessary to remove any cleaning product.	
<b>There are other primers recommended by glue manufacturers.</b>		
<b>Gerflor only recommends to refer to the technical data sheets of these primers for their instructions.</b>		
<b>If the substrate is not in this list: please contact us.</b>		

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## 2.3.2 Double-sided adhesive application

### • Note on surface:

The surface should be dry, hard, perfectly adherent, load-bearing, plane and free from grease, dust & silicone.

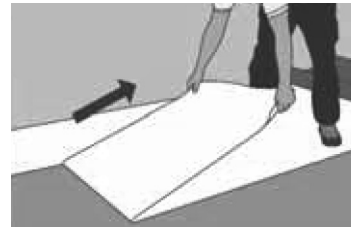
### • Dry adhesive application:

- Unroll the double-sided adhesive, pressing lightly on the adhesive with a gluing block
- Important:** The strongly adhesive (protected) side must never rest on the surface!
- Only unroll the amount of double-sided adhesive that can be covered that day with the floor covering.
- Roll up the remaining with the protective paper (to protect the surface and the section from dust).



### • Laying PVC tiles on adhesive:

- Mark the lines on the protective paper either with a chalk line or a pencil.
- Mark the starting point of the first tiles and the first row of tiles.
- Place a steel rule along the line and cut only the protective paper with a straight blade.
- Remove the protective paper from the double-sided adhesive, pulling straight and flat. The line created forms the starting line of the first tiles of the first row.
- Lay the tiles and interlock them.
- Stack the protective papers as you progress and then roll them up (minimises waste volume).
- Remove the protective paper as you progress, pulling straight and flat.
- If laying is discontinued, the protective paper may be put back in place to protect the double-sided adhesive.
- After laying, apply adhesive generously/apply a pasting roll, in crisscross strokes on the entire surface.



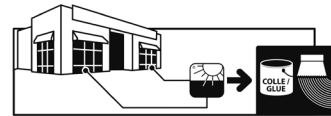
### • Removing tiles and double-sided tape adhesive:

**Double-sided adhesive allows you to remove the floor covering without leaving any trace of adhesive and without damaging the surface.**

- Disengage the tiles.
- Starting in one corner, detach the double-sided adhesive from the surface.
- Remove the floor covering and double-sided adhesive by pulling at ground level.

### Gluing in front of sunny area (Bay windows)

In order to prevent the floor temperature from reaching excessive values (60 °C or above), direct sunlight on the floor should be obscured by curtains, blinds or other suitable protection. Otherwise, maintain the covering with a suitable adhesive, such as two-part polyurethane (PU) adhesive or hybrid adhesive (Please Contact the adhesive manufacturers).

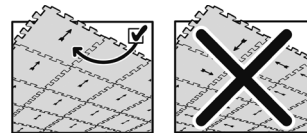


	BOSTIK	MANG	SADER	CEGECOL	MAPEI	UZIN	F BALL
Gluing in front of sunny area (bay windows...)		PU 456 PU 2 components		SOL UR PU 2 components	Adesilex G 20 PU 2 components	KR 430 PU 2 components KE68 Hybrid acrylic glue Single component Bonding time up to 15 minutes	F 49 Hybrid acrylic glue (PSA) Pressure Sensitive Adhesive

## 2.3.3 Installation of GTI tiles

### • Precautions

The tiles are delivered on a pallet. It is imperative not to mix the different batches.



Direction of installation: The tiles are laid ALL in the same direction. Observe the direction indicated by the arrow on the back of the slab.

Pressed materials, such as GTI tiles, may have dimensional tolerances from one series to another or from one color to another which may vary by 1 mm.

In this case, the tiles can:

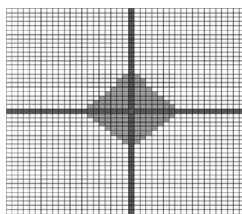
- Either not be able to fit: In this case, plan to cut the dovetails and weld the slabs with a double-sided adhesive 5 cm wide on each side of the weld.
- Easy to fit together: In this case, you must also place a double sided adhesive 5 cm wide on both sides to avoid any risk of unclipping over time.

### • Implementation:

The use of slabs on large surfaces must always be done by working on the two axes that have been drawn beforehand, either along a wall or between two zones of 500 m<sup>2</sup> (see drawing) or crosses in the middle of the room.

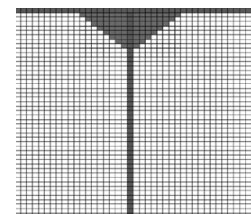
#### - General case:

Start crosswise in the middle of the room.  
Install the stair tiles ¼ by ¼ of the room.



#### - Implantation along a wall:

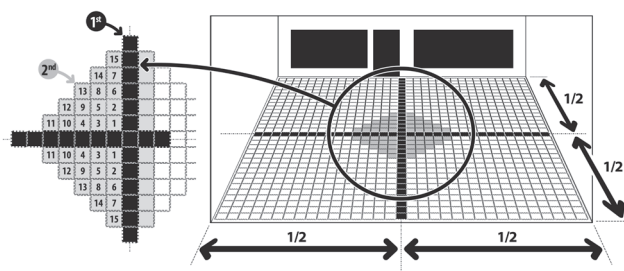
Start in the middle of the implantation.  
Install the stair tiles on both sides.



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- Lay in steps for easier tile interlocking and to prevent displacement. The tiles are laid in step and **ALL** in the same direction (see arrows on back of tiles).



- Provide a circular saw with platform for the duration of the work.
- Cutting is performed either with a cutter (1 pass on the surface and repeat on back), or using the transfer technique (scribing)  
*Scribing:* Method for tracing or cutting parallel lines. For this, a marking gauge or a tile gauge is used.
- Position the tile to be cut on the last full tile laid.
- Take a full tile which will serve as a gauge.
- Lay it on the tile to be cut, pressing on the partition (wall). Leave a clearance of 0.5 cm.
- Mark the tile to be cut along the edge of the gauge, with a cutter equipped with a straight blade.
- Cut the part of the tile to be laid neatly and put it in place.
- For difficult areas (door frame, etc.), use demultiplied shears.

### • Interlocking of tiles (procedure, tools, etc.), adjustment

- The tiles are interlocked by striking with a synthetic mallet or a non-rebound mallet and a wooden block.
- The tiles are interlocked from the corner to the edge.



Tools required: Cutter - Tape measure  
- Metal rule - Metal tracing wheel -  
Wooden or synthetic resin mallet



Non-rebound mallet

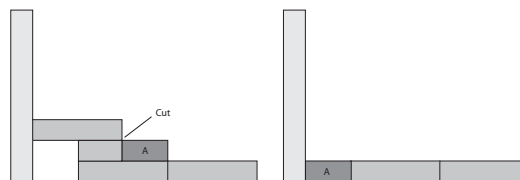
	ROMUS	
Non-rebound mallet	94964	

### • Peripheral levelling

The tiles should be positioned such that the peripheral cuts are  $> \frac{1}{2}$  tile

### Cutting (procedure, tools, etc.)

- Peripheral clearance: in standard sections, the peripheral clearance is 0.5 cm.



### Mitre shears

Reference: Romus: 93415 /  
Janser: 237 530 000  
For cutting around door frame bases, areas which are difficult to access.



### Demultiplied mitre shears

Reference: Janser: 262 284 000  
For cutting around door frame bases, areas which are difficult to access.

## 3. HANDLING SPECIAL SECTIONS

### ■ 3.1 - SKIRTING

VYNAFLEX skirting or Gerflor Flexible skirting for finishing between floor and wall.

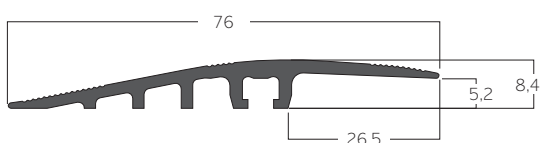
### ■ 3.2 - SURFACE EXPANSION JOINTS

- Flush joints: The RM 20-5 profile with PVC strips supplied by COUVRANEUF covers the joint. Adhesive-free tiles are cut along the joint and should be sealed onto the flexible joint.
- Joints with overlay profile: The profile is fitted over the floor covering and is secured on one side only.

### ■ 3.3 - DOOR PASSAGES AND STOPS

Use the following profiles according to the conditions of use: intensity of traffic, humidity level, etc.

#### 3.3.1 Finishing profile 0505



### 3 metre long profile strip with 9 pre-drilled countersunk holes, 4.3 mm diameter.

- The spacing between holes is 313 mm
- The first hole is 90 mm from the end
- The holes are de-burred after drilling

### 4 x 50 mm TFZ screws and 6 x 30 mm

TFZ 4mm diameter screw,  
50 mm long



6 mm diameter plug,  
30 mm long



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## 3.3.2 RAMPE LL 5-6 MM (REF:0609)

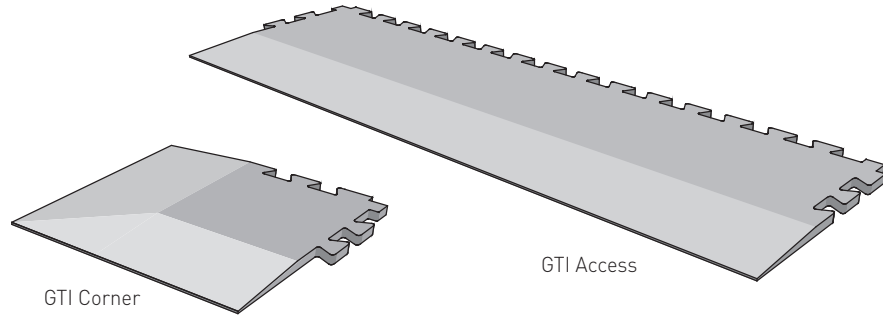
Installation guideline [510] RAMPE LL 5-6 MM (0609)

### 3.3.3 GTI ACCESS and CORNER

GTI ACCESS 635 X 320 mm

GTI CORNER 320 mm x 320 mm

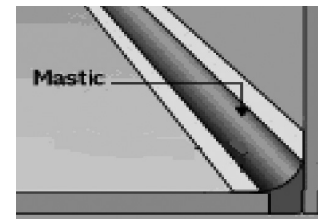
*These accessories need to be glued with two-component and weighted during the setting of the adhesive (6-12 hours).*



### 3.4 - SEALANT APPLICATION IN PERIPHERAL CLEARANCE

We recommend applying a polyurethane or hybrid sealant (M.S. Polymer) in the peripheral clearance to prevent any water or other penetration.

Peripheral clearance, profile overlay.



## 4. PUTTING FIXTURES BACK IN PLACE

- Consoles (whether stocked or not) and other display units should be put back in place before the distribution plates to prevent slippage of the loose laid material.
- Any damage to the material caused by putting fixtures back into place shall not be accepted by the installer or material manufacturer.

## 5. REPAIRS AND MAINTENANCE

### 5.1. - MONITORING, MAINTENANCE AND REPAIRS

The user should regular monitor that the structure appears to be securely in place and notify the client and/or original installer of any anomalies that the user deems to incur potential risks in respect of the durability of the structure.

The technical analysis, requested by the user from the other parties, should differentiate between ageing due to normal wear and tear due to the traffic and use of the premises and accidental damage. If the observations made by the user are found to be justified following the technical analysis, the installer shall conduct the repair work within the scope of its contractual and/or legal commitments.

#### NOTE:

As part of this monitoring, the user should report any accidents linked with the operation of the premises without delay for repairs, in particular: cuts due to falling sharp objects, individual burns, etc. This maintenance may be carried out by the user's maintenance department.

### 5.2. - REPLACING ATTRACTION® / GTI TILES

- Replacing an adhesive-free tile:
  - Cut a corner of the damaged tile,
  - Disengage the dovetails,
  - Fit a new tile in place, observing the laying direction.
- Replacing an adhesive-bonded tile:
  - Cut a corner of the damaged tile,
  - Disengage the dovetails,
  - Cut and replace the adhesive,
  - Fit a new tile in place, observing the laying direction.

