

### Installation Tools and Components

- Utility knife
- Marker
- Tape measure
- Jigsaw
- Personal protective equipment

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## Introduction

Stravigym GympactTile athletic flooring must be installed correctly in order to maintain CDM Stravitec' manufacturer's warranty.

It is imperative that all tiles be installed under compression to create a tight seam between the tiles. Failure to install the Stravigym GympactTile system under compression to the dimensions outlined in this manual will void the system's warranty. By carefully following the instructions below, you will be able to achieve the required compression during installation.

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## Layout

When preparing the initial site layout there are important factors to take into consideration:

- Each Stravigym GympactTile is manufactured to a dimension of 24.25" x 24.25" ( $\pm 1/8"$ ) from the factory.
- The Stravigym GympactTile installation process requires that each tile be installed under light compression by applying a downward kicking motion once laid to ensure the locks are engaged on all four sides as you move through the installation process.
- **IMPORTANT:** All sites will require a fixed containing edge to achieve the desired compression required.
- This can be achieved using existing structural walls or transitional ramps that can be adhered to the floor.
- It is unlikely that the site is perfectly square or exactly as shown in the drawings.

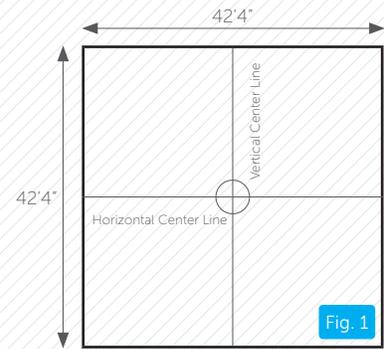
To ensure a visually proportionate site, lay the surface out with similar dimension cuts on all four sides of the floor. Ideally, cut perimeter tiles should be a minimum of 10" in width when possible.

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## 1 / Locate the Center Line of the Room

Locate, measure and chalk line the vertical and horizontal center lines in the room.

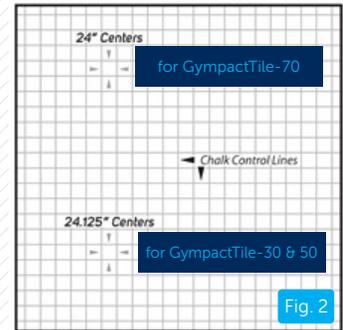
Center lines should be shifted based on the best visual effect on the perimeter cuts. When possible, perimeter cuts should be a minimum of 10" in width.



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## 2 / Striking Lines

From the center point in the area, strike chalk lines in 24" increments (for Stravigym GympactTile-70) or 24.125" (for Stravigym GympactTile-30 and 50) in both directions so that a grid pattern is created across the entire area.



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## 3 / Transitional Ramp Installation (optional)

If transitional ramps are being used on one or more sides they must be permanently secured to the floor to provide a fixed point of compression for the field tiles. Prior to the installation of field tiles, locate the final position of the transitional ramps and fix them in place with the supplied adhesive.

Adhesive must be fully cured before compression can be applied to the transitional edge.

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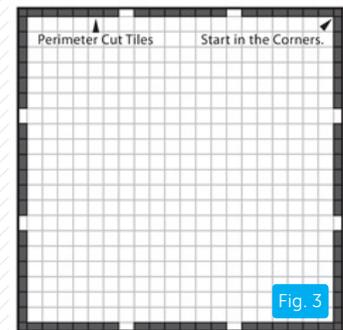
## 4 / Cutting in the Perimeter

To properly compress all of the field tiles, the perimeter of the room must be cut in and placed first. At each seam location along the chalk line around the perimeter of the room, measure the distance from the line to the wall and add 1/16" to this measurement and write that dimension on the floor. Continue this process at every seam around the perimeter of the room (every 24"). Transfer these measurements onto the tile.

Cut tiles with a sharp, heavy duty utility knife and metal straight edge on the line but with a back-cut or undercut of approximately 5 degrees. Install the cut tiles all the way around the perimeter. Start at the corners and work around the room.

Perimeter tiles should be installed in 6 tile increments leaving a one-tile space between each 6-tile row. This is done to make compression easier by balancing the compressive forces throughout the floor.

Compress the final perimeter tiles into the remaining voids (see "6" for further details).

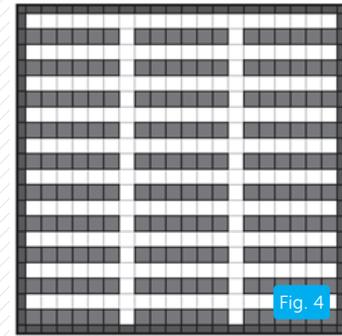


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## 5 / Installing Field Tiles

Install the field tiles running in one direction only across the room. Install every other row of tiles only. Begin at the perimeter cuts at each end of the room.

Tile rows should be installed in approximately 6-tile increments leaving a one-tile space between each 6-tile row. The number of tiles between spaces may need to be adjusted based on the room dimensions.



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## 6 / Installing Compression Tiles

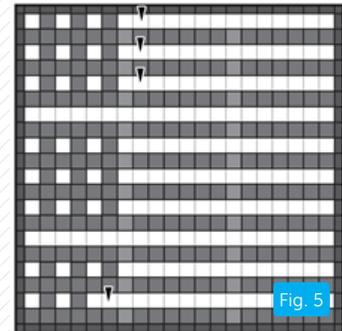
Begin installing the tiles in the empty space located between the 6 tile increments. These tiles represent the compression tiles and will need to be compressed into a space smaller than the tile.

The locking mechanism on each edge of the tile should be engaged with the adjacent tile forcing the tile to buckle upwards. Once the links are engaged, force the tile flat by applying downward pressure onto the tile. This is normally done using a kicking motion or a sledgehammer (be careful to not damage the tile).

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## 7 / Installing Field Tiles in the Opposite Direction

Once every other row of tile has been installed and compressed into place, begin installing every other row of tile in the opposite direction, using the same process as described in Sections '5' & '6'.

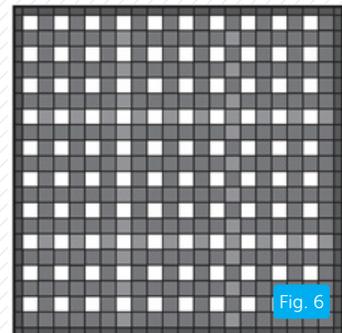


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## 8 / Applying Final Compression

At this point in the installation your tile layout should look like the drawing.

The remaining spaces in the floor are smaller than the tiles that will be placed and therefore each tile must be forced into place. The 2 step method, as described herein, forcing each remaining tile into place will compress all of the remaining tiles in opposite directions.



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## Step One

Begin by engaging the locks in each of the four corners with the tiles adjacent. This process will create significant pressure and will cause the compression tile to balloon.



The process of compressing a tile between rows will force the other tiles to compress and shift in opposite directions.

In order to create equal compression across the floor and to minimize shifting during installation, certain tiles must be temporarily weighted down prior to the compression process.

Place 5 or 6 tiles on top of each 6-tile row close to the center point. Once the compression tiles have been installed, the tiles used as weight tiles can be shifted to the next row of tiles.

Alternately, if the size of the installation crew permits, standing at the center point of the 6 tile rows during compression will achieve the same effect.

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## Step Two

Once all of the tiles have been partially installed by engaging the corners, begin compressing the tiles into place. Compressing the tiles can be labor intensive and is best accomplished by applying considerable downward force through a kicking action and the use of a sledge hammer.

Continue this process throughout the room using the two-step method above. Install final compression tiles in large groups at a time, beginning with the one or two rows around the perimeter and then working throughout the floor.

Compress tiles throughout the remainder of the floor based on how the tiles are shifting during installation.



Once all tiles have been installed, be sure to walk the entire site and conduct a thorough visual inspection. You may find that several tiles need adjustment. This can be done with an angular, downward kicking motion to physically persuade the seams to re-align. A sledgehammer can also be used for this if more force is required.

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