uptec® Manual

EN

Uptec is a universal, adjustable pedestal for outdoor raised floor installations, specifically indicated for 2 cm - 3/4" ceramic tile. Uptec launches the 3-in-1 revolution, 3 articles (3 base codes: **SUPAL, SUPAS** and **SUPAR**) in only one system. The three products work seamlessly with 3 accessories (3 codes: **SUPA2, SUPA4** and **SUPAW**) designed for standard installations (2 mm - 3/32" and 4 mm - 5/32"tile joints) or for wood and aluminum joists. The rubber, interchangeable accessories guarantee a sound dampening, non-slip system. Uptec allows you to reach the desired floor height by simply adding **SUPAR** spacer rings; an ingenuous locking disc lets you easily change from a self-leveling head to a fixed head.

3 in 1

Innovative 3-in-1 system designed to complete installations of different heights with one single product.

SUPAR

Add or remove a SUPAR ring to change the pedestal height

Self leveling

Fixed

Simple mechanism to change from a self-leveling head to a fixed head

INDEX

EN

3 PRODUCTS

SUPAL
Low pedestal

28÷43 mm
1-3/32"÷1-11/16"

SUPAS
Standard pedestal

43÷58 mm
1-11/16"÷2-9/32"

SUPAR
Modular ring

+ 30 mm
+ 1-3/16"

3 OPTIONS + ADJUSTMENT KEY

SUPA2
For ceramic tile installations

for 2 mm joints
3/32"

SUPA4
For ceramic tile and tile installations with aluminum joists

for 4 mm joints
5/32"

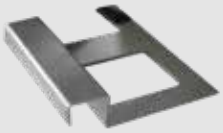
SUPAW
For installations on wood joists

SUPAK
3in1 adjustment key

For minimum 4 mm
- 5/32" tile joints

OTHER PROFILES AND ACCESSORIES

BSJ
Perimetral profile



L = 2.70 m
8' 10"

BSR
Perimetral profile

L = 2.70 m
8' 10"

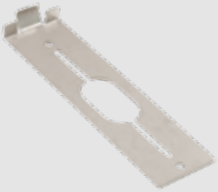
BST20
Perimetral profile

L = 2.70 m
8' 10"

SUPL2 - SUPL3
Leveling disk

2 mm - 3/32"
3 mm - 1/8"

SUPCLPP
Perimeter tile spacer



SUPACLPB
Clip for vertical edge - Base

SUPACLPT
Clip for vertical edge - Head

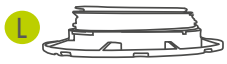
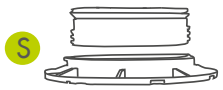
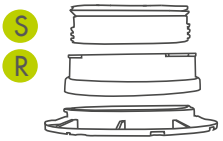
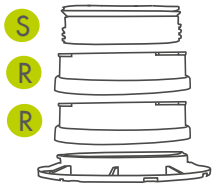
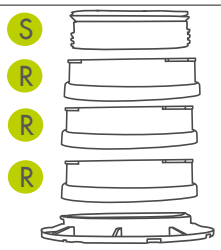
SUPAR120
Modular ring

120 mm - 4-3/4"

SUPATG
Mat

198 x 198 mm
7" 25/32 x 7" 25/32

UPTEC - adjustable universal pedestals for raised floors - components	
ART.	DESCRIPTION
SUPAL	Low pedestal 28÷43 mm - 1-3/32÷1-11/16"
SUPAS	Standard pedestal 43÷58 mm - 1-11/16"÷2-9/32"
SUPAR	Modular ring +30 mm - +1-3/16"
UPTEC - base options	
ART.	DESCRIPTION
SUPA2	Spacer - 2 mm tabs - 3/32" for ceramic tile installations
SUPA4	Spacer - 4 mm tabs - 5/32" for ceramic tile installations and tile installations with aluminum joists
SUPAW	Tab for installations on wood joists
UPTEC - additional options	
ART.	DESCRIPTION
SUPAR120	Modular ring 120 mm - 4-3/4"
SUPAK	3 functions adjusting key
SUPL2	Leveling disk 2 mm - 3/32"
SUPL3	Leveling disk 3 mm - 1/8"
SUPACLPP	Perimeter tile spacer
SUPACLPT	Clip for vertical edge - Head
SUPACLPB	Clip for vertical edge - Base
BSJ + BSJE	Perimetral profile + External joint
BSR + BSRE + BSRG	Perimetral profile + External joint + Joint piece
BST + BSTE	Perimetral profile + External joint
SUPATG	Mat 198x198x3 mm - 7" 25/32 x 7" 25/32 x 1/8"

28-43 mm 1-3/32" - 1-11/16"	43-58 mm 1-11/16" - 2-9/32"	58-88 mm 2-9/32" - 3-15/32"	88-118 mm 3-15/32" - 4-41/64"	118-148 mm 4-41/64" - 5-53/64"
 SUPAL	 SUPAS	 SUPAS + 1 SUPAR	 SUPAS + 2 SUPAR	 SUPAS + 3 SUPAR
2 4 W	2 4 W	2 4 W	2 4 W	2 4 W

UPTEC - KIT pedestal with 2 mm - 3/32" tabs - assembled	
ART.	DESCRIPTION
SUPAL2-28/43	kit pedestal + 2 mm - 3/32" spacer tabs
SUPAS2-43/58	kit pedestal + 2 mm - 3/32" spacer tabs
SUPAS2-58/88	kit pedestal + 2 mm - 3/32" spacer tabs
SUPAS2-88/118	kit pedestal + 2 mm - 3/32" spacer tabs
SUPAS2-118/148	kit pedestal + 2 mm - 3/32" spacer tabs

UPTEC - KIT pedestal with 4 mm - 5/32" tabs - assembled	
ART.	DESCRIPTION
SUPAL4-28/43	kit pedestal + 4 mm - 5/32" spacer tabs
SUPAS4-43/58	kit pedestal + 4 mm - 5/32" spacer tabs
SUPAS4-58/88	kit pedestal + 4 mm - 5/32" spacer tabs
SUPAS4-88/118	kit pedestal + 4 mm - 5/32" spacer tabs
SUPAS4-118/148	kit pedestal + 4 mm - 5/32" spacer tabs

SUPAANG
Aluminum joists

L = 2.40 m
7-7/8″

ACCESSORIES

SUPAJG
Joist junction

SUPDG
Spacer thickness

4 mm
5/32″

SUPACLPPT
Perimeter tile spacer - Joist

SUPCLIPG
Lateral and central clip

UPTEC - adjustable universal pedestals for raised floors - components	
ART.	DESCRIPTION
SUPAANG240	Aluminum joist (L = 2.40 m - 7-7/8″)
SUPAANGB240	Black Aluminum joist (L = 2.40 m - 7-7/8″)
UPTEC - additional options	
ART.	DESCRIPTION
SUPDG	Spacer (4 mm - 5/32″ thickness)
SUPAJG	Joist junction
SUPCLIPG	Lateral and central clip
SUPACLPPT	Perimeter tile spacer - Joist

SUPAS

43÷58 mm
1-11/16"÷2-9/32"

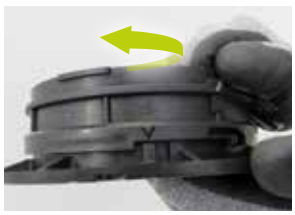
SUPAS + 1 SUPAR

58÷88 mm
2-9/32"÷3-15/32"

PLEASE NOTE: pay close attention to the marks on the base elements and on the bottom of the SUPAR elements.

OPEN

CLOSED



SUPAR

+30 mm
+1-3/16"

PLEASE NOTE: pay close attention to the marks underneath the added SUPAR elements and the marks on top of the underlying SUPAR elements.

OPEN

CLOSED

SUPA 2/4/W

SUPAS

43÷58 mm
1-11/16"÷2-9/32"

PUSH

SUPAS
1 SUPAR

58÷88 mm
2-9/32"÷3-15/32"

PUSH

RAISE

SUPAR

- 30 mm
- 1-3/16"

RAISE

SUPA 2/4/W

UNFASTEN

SUPAK

USES OF THE ADJUSTMENT TOOL: 3 FUNCTIONS

Self-leveling
Fixed

Adjustable height

Remove tabs

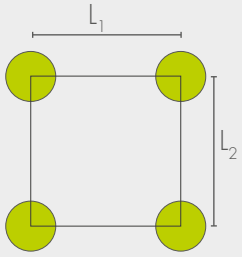
PIECE QUANTITY **ESTIMATE** CALCULATION - pcs/m²

The number of pedestals needed in an installation varies according to the type and dimensions of the tile used, static loads (ex. point load, like a vase of flowers) and dynamic loads (ex. pedestrian passage) which the pedestals must bear.

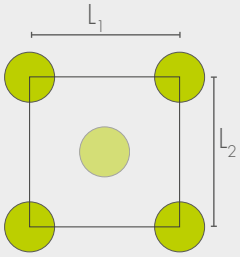
Profilitec recommends contacting the flooring manufacturer for information regarding the bearing capacity of a single tile.

Formulas for the calculation of the number of pedestals needed per square meter, considering tile with a thickness of 2 cm - 3/4". For thicker tiles, contact the Profilitec headquarters for the calculation of the correct load bearing capacity.

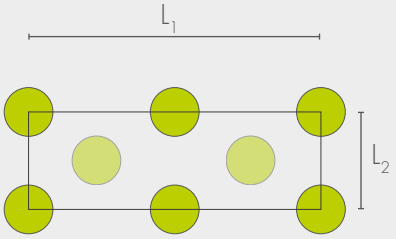
$(1 : L_1 : L_2) = pcs/m2$



$(1 : L_1 : L_2) \times 2 = pcs/m2$
with a central pedestal



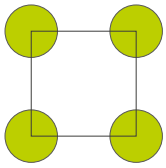
$(1 : L_1/2 : L_2) = pcs/m2$



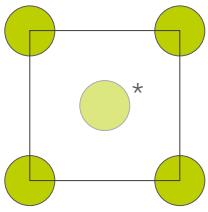
PLEASE NOTE: The formula does take into consideration perimeter pieces. For a precise calculation, add the number of pieces per square meter to half of the pieces resulting from the perimeter calculation.
We suggest contacting the Profilitec headquarters for atypical applications. The pedestals must be placed with a spacing no larger than 60 cm - 24" on center.

EXAMPLE OF **TILE INSTALLATION** DIAGRAMS

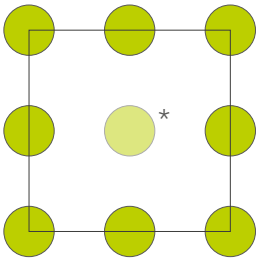
*add a central pedestal for installations in public places / in the presence of heavy loads or tall floor heights



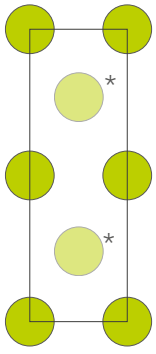
40x40 cm
16"x16"



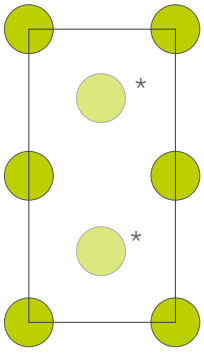
60x60 cm
24"x24"



80x80 cm
32"x32"



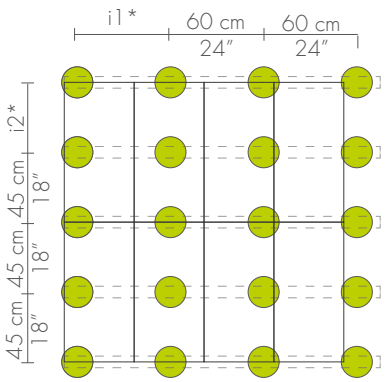
40x120 cm
16"x48"



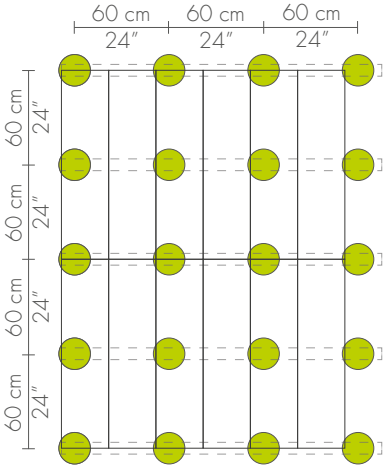
60x120 cm
24"x48"

EXAMPLE OF A **JOISTS INSTALLATION** DIAGRAM

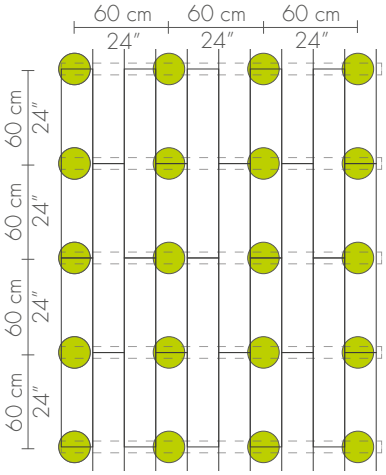
*substitute L1 and L2 in the formula with the center-to-center distance i1 and i2, hence: $(1 : i1 : i2) = pcs/m^2$



45x90 cm - 18"x36"



30x120 cm - 12"x48"



PRELIMINARY PROCEDURES

1. Make sure the material is in **perfect condition** before proceeding with the installation.

2. The minimum height is equal to **48 mm - 1-7/8"** (minimum SUPAL height = 28 mm - 1-3/32" + 20 mm 3/4" tile thickness.)

SUBSTRATE CHARACTERISTICS

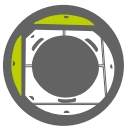
3. The **surface** upon which the product is installed must be perfectly **clean**, without any trace of liquids, dirt or debris.

4. Place the pedestals on concrete, cement, EPDM, rubber, or directly on insulation materials. Always check the compressive strength of the bearing material.

5. Check that the installation surface follows the specifications indicated on the construction drawings and that there is an adequate drainage system present.

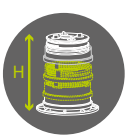
WARNINGS

6. Uptec must be used in environments with **pedestrian** traffic only.



7. Do **not cut more** than **2 consecutive sides** of the pedestals. If necessary, contact the Profilitec headquarters.

8. The **lateral movement** of the installation must not exceed 3 mm - 1/8".



9. For **heights exceeding 40 cm - 15-3/4"**, contact a specialized technician to confirm the bearing capacity.

10. When the installation is complete, check to make sure that the area is **free of danger**.

PRODUCT INSTALLATION GUIDELINES

11. The **maximum center-to-center** distance between pedestals must not exceed **60 cm - 24"**.

12. The installation must be entirely **closed** on all sides, be it by walls or by perimeter enclosure systems (clips or profiles).

13. Determine the **height of the pedestal** by subtracting the tile thickness from the final floor height.

14. Position the assembled **pedestals** at the **correct height** before installing the flooring.

15. After the placement of each tile, check the **floor alignment** by adjusting the height of the pedestals. We recommend using the SUPAK Adjustment Tool.

16. Use the **self-leveling** head: for flooring with even loads on the pedestals. Use the **fixed** head: for pedestals with uneven loads. (Ex. the perimeter of an installation with tiles cut to size.) The pedestal is locked by turning the locking disc on the head of the support.

PRODUCT CONDITIONS

17. Keep the material in the **original packaging**.

18. The material is delivered in cardboard boxes which must be kept in a clean, **dry environment** without exposure to rain or waste.

19. Protect the product from damage during installation. **Substitute** or repair any **damaged products** before proceeding with the installation.

20. Deliver, store and handle the product following the instructions described above.

INSTALLATION COMPONENTS

BASIC ELEMENTS

Choose one of the following elements based on the desired height:

- 1a SUPAL - 28÷43 mm - 1-3/32″ - 1-11/16″
- 1b SUPAS - 43÷58 mm - 1-11/16″ - 2-9/32″
- 1c SUPAS + SUPAR - 43÷58 mm +30 mm 1-11/16″ - 2-9/32″ +1-3/16″
- 1d SUPAR120 - (optional)

Select one of the following tabs:

- 2a SUPA2 - 2 mm - 3/32″ tab
- 2b SUPA4 - 4 mm - 5/32″ tab

- 3 3-in-1 Adjustment tool


1a SUPAL


1d SUPAR120 - (optional)


1b SUPAS


1c SUPAS + SUPAR


2a SUPA2


3 SUPAK


2b SUPA4

PERIMETER ACCESSORIES

- 4 Perimeter wall spacer clip


4 SUPACLPP

- 5 * Perimeter profiles


5 BSJ


BSR


BST

- 6 *Vertical edge clips - base and head


6 SUPACLPB


SUPACLPT

ADDITIONAL TOOLS NECESSARY

- 7 Hand saw


7

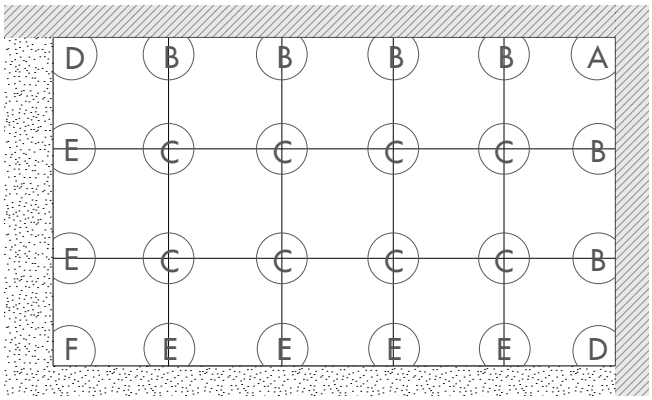
- 8 Measuring tape


8

- 9 Level


9

PEDESTAL PLACEMENT DIAGRAM



Example of an installation diagram for a rectangular terrace, open on two sides and enclosed by walls on two sides. The letters in the diagram indicate the type of pedestal. Pedestal installation instructions are described below. The installation must be **closed** on all sides by either walls or specific perimeter enclosing systems (clips or profiles).

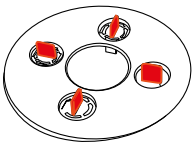
Example with 50x50 cm - 20"x20" tile; add a central pedestal for larger tile.

POSITIONING OF **CORNER** PEDESTALS

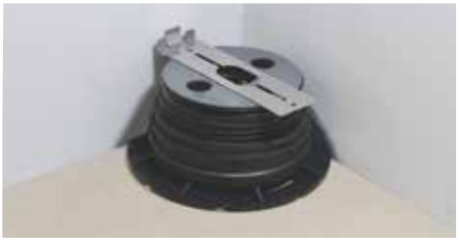
A 

1. Turn the base upside down and remove two sides along the marked lines.

2. Assemble the pedestal and position it in the corner.



3. Remove the four tabs with the SUPAK tool.



4. Place a SUPACLPP spacer clip against the wall.

5. Place a second SUPACLPP spacer clip perpendicular to the first.

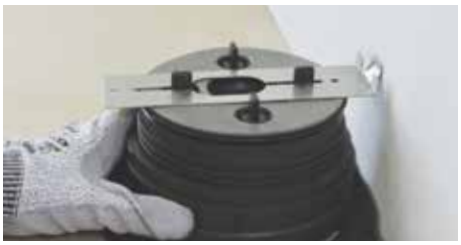
6. Position the tile.

POSITIONING OF **PERIMETER** PEDESTALS

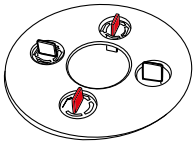
B 

7. Turn the base upside down and remove one of the sides along the marked line.

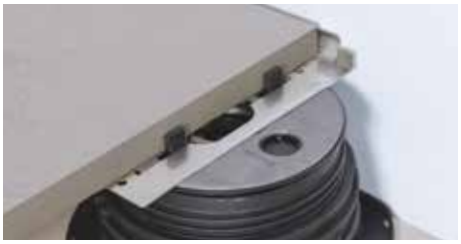
8. Assemble the pedestals and position them with the cut side towards the wall.



9. Insert a SUPACLPP spacer clip between the two tabs perpendicular to the wall.



10. Remove the four tabs with the SUPAK tool.



11. Position the tile.

12. Place the center of the pedestals at the same distance as the dimension of the tile. The spacing should not exceed 60 cm on center.

13. Position the tile.

14. Place the corners of the tile between the tabs.

15. Position the other tiles.

16. Check to make sure that the flooring is leveled.

17. If it is not leveled, adjust the height with the SUPAK tool.

BSJ

BSJ20IS

SUPACLPB + SUPACLPP

D

E

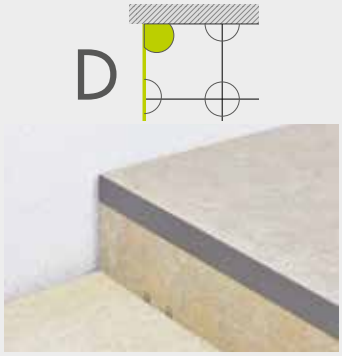
F

BST

BST20A50

SUPACLPB + SUPACLPP

D



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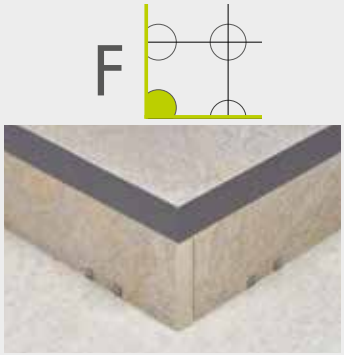
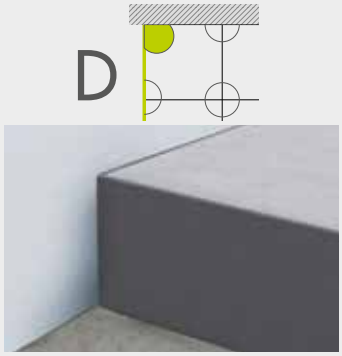


BSR

BSR20/100A50

SUPACLPP

D



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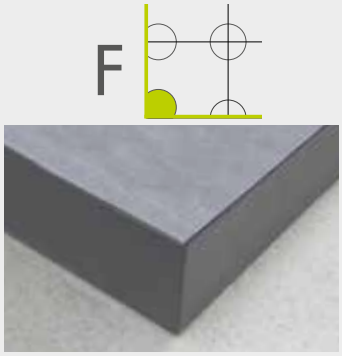
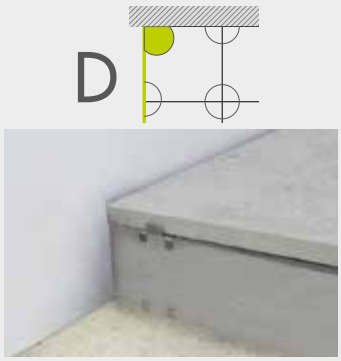


Clip

SUPACLPB

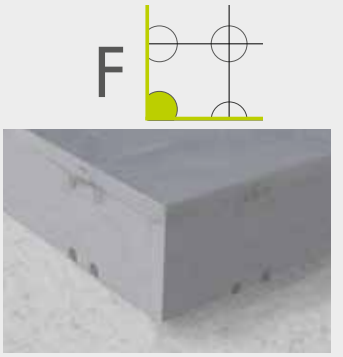
SUPACLPT + SUPACLPP

D

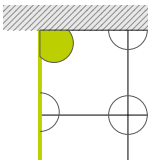


E

F



BSJ D



INSTALLATION OF BSJ PERIMETER CORNER PROFILE

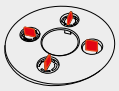
D1. Place the SUPACLPB clip under the pedestal base.

D2. Place the pedestal with one cut side against the wall and the other facing outwards.

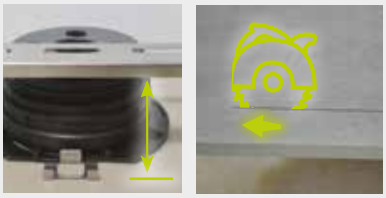
D3. Place the SUPACLPP spacer clip and the BSJ profile on the head of the pedestal.

N.B.

remove two of the base sides



remove the four tabs

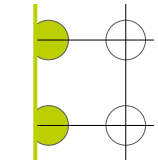


D4. Cut the tile. The dimension of the tile is equal to the distance between the BSJ profile and the SUPACLPB base clip.

D5. Wedge the cut tile between the BSJ profile and the SUPACLPB clip.

D6. Position the top tile.

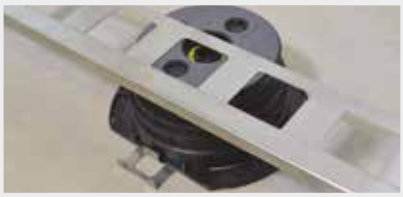
BSJ E



INSTALLATION OF **BSJ PERIMETER END PROFILE**

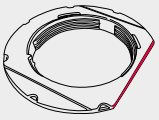
E1. Place the SUPACLPB clip under the pedestal base.

E2. Place the pedestal with the cut side facing outwards.

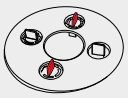


E3. Place the BSJ profile between the tabs on the head of the pedestal.

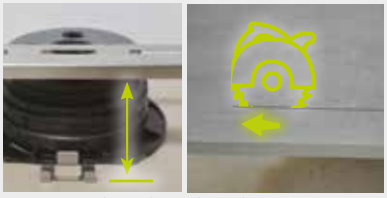
N.B.



remove one of the base sides



remove two tabs

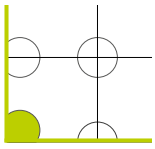


E4. Cut the tile. The dimension of the tile is equal to the distance between the BSJ profile and the SUPACLPB base clip.

E5. Wedge the cut tile between the BSJ profile and the SUPACLPB clip.

E6. Position the top tile.

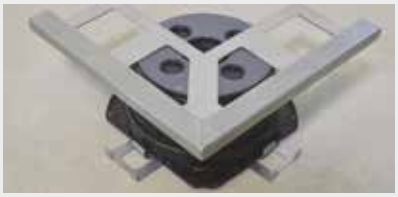
BSJ F



INSTALLATION OF **BSJ PERIMETER CORNER PROFILE**

F1. Place two SUPACLPB clips perpendicular to each other under the pedestal base.

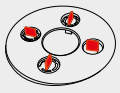
F2. Place the pedestal with the cut sides facing outwards.



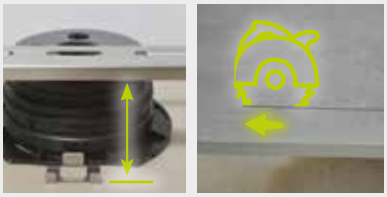
F3. Place external corner of the BSJE profile on the head of the pedestal and position it against the BSJ profile.

N.B.

remove two of the base sides



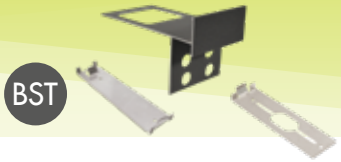
remove the four tabs



F4. Cut the tile. The dimension of the tile is equal to the distance between the BSJ profile and the SUPACLPB base clip.

F5. Wedge the cut tile between the BSJ profile and the SUPACLPB clip.

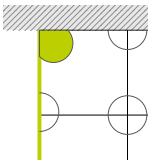
F6. Position the top tile.



EN

INSTALLATION OF BSJ PERIMETER CORNER PROFILE

BST D



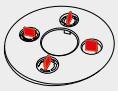
D1. Place the SUPACLPB clip under the pedestal base.

D2. Place the pedestal with one cut side against the wall and the other facing outwards.

D3. Place the SUPACLPP spacer clip and the BST profile on the head of the pedestal.

N.B.

remove two of the base sides



remove the four tabs

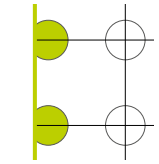
D4. Cut the tile. The dimension of the tile is equal to the distance between the BST profile and the SUPACLPB base clip.

D5. Wedge the cut tile between the BST profile and the SUPACLPB clip.

D6. Position the top tile.

INSTALLATION OF **BSJ PERIMETER END PROFILE**

BST E

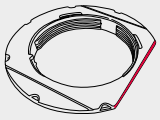


E1. Place the SUPACLPB clip under the pedestal base.

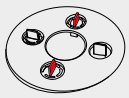
E2. Place the pedestal with the cut side facing outwards.

E3. Place the BST profile between the tabs on the head of the pedestal.

N.B.



remove one of the base sides



remove two tabs

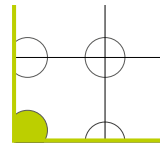
E4. Cut the tile. The dimension of the tile is equal to the distance between the BST profile and the SUPACLPB base clip.

E5. Wedge the cut tile between the BST profile and the SUPACLPB clip.

E6. Position the top tile.

INSTALLATION OF **BSJ PERIMETER CORNER PROFILE**

BST F



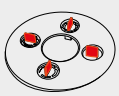
F1. Place two SUPACLPB clips perpendicular to each other under the pedestal base.

F2. Place the pedestal with the cut sides facing outwards.

F3. Place external corner of the BSTE profile on the head of the pedestal and position it against the BST profile.

N.B.

remove two of the base sides

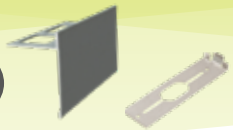


remove the four tabs

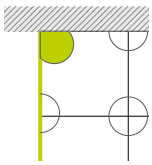
F4. Cut the tile. The dimension of the tile is equal to the distance between the BST profile and the SUPACLPB base clip.

F5. Wedge the cut tile between the BST profile and the SUPACLPB clip.

F6. Position the top tile.



BSR D



INSTALLATION OF **BSR PERIMETER CORNER PROFILE**

D1. Place the pedestal with one cut side against the wall and the other facing outwards.

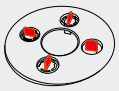
D2. Place the SUPACLPP spacer clip on the head of the pedestal.

D3. Place BSR profile on the head of the pedestal.

D4. Position the top tile.

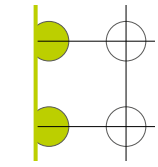
N.B.

remove two of the base sides



remove the four tabs

BSR E



INSTALLATION OF **BSR PERIMETER END PROFILE**

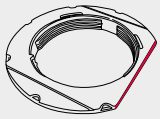
E1. Place the pedestal with the cut side facing outwards.

E2. Place the BSR profile between the tabs on the head of the pedestal.

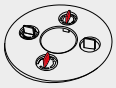
E3. Position the top tile.

E4. Position the top tile.

N.B.

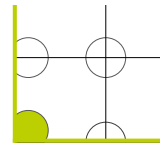


remove one of the base sides



remove two tabs

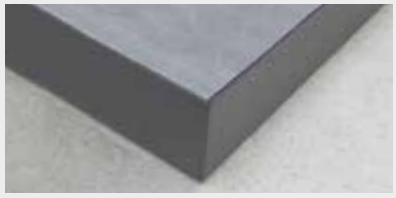
BSR F



INSTALLATION OF **BSR PERIMETER CORNER PROFILE**

F1. Place the pedestal with the cut side facing outwards.

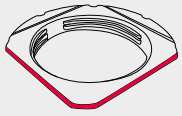
F2. Slide the BSRE joint profile along the BSR profile. Place the composed piece on the pedestal.



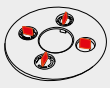
F3. Position the top tile.

BSR + BSRE joint.

N.B.



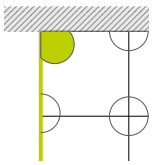
remove two of the base sides



remove the four tabs

EN

CLIP D



INSTALLATION OF **BASE-HEAD PERIMETER CORNER CLIPS**

D1. Place the SUPACLPB clip under the pedestal base.

D2. Place the pedestal with one cut side against the wall and the other facing outwards.

D3. Place SUPACLPP spacer clip perpendicular. Place SUPACLPT.

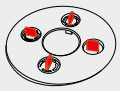
N.B.

remove two of the base sides

D4. Cut the tile. The dimension of the tile is equal to the distance between the SUPACLPT clip and the SUPACLPB clip.

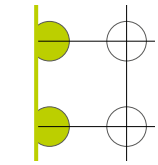
D5. Wedge the cut tile between the SUPACLPT clip and the SUPACLPB clip.

D6. Position the top tile.



remove the four tabs

CLIP E



E1. Place the SUPACLPB clip under the pedestal base.

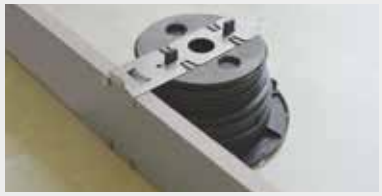
E2. Place the pedestal with the cut side facing outwards.

E3. Place the SUPACLPT clip between the two tabs on the head of the pedestal.

N.B.

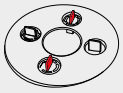
remove one of the base sides

E4. Cut the tile. The dimension of the tile is equal to the distance between the SUPACLPT clip and the SUPACLPB clip.



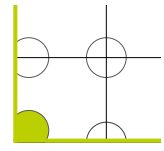
E5. Wedge the cut tile between the SUPACLPT clip and the SUPACLPB clip.

E6. Position the top tile.



remove two tabs

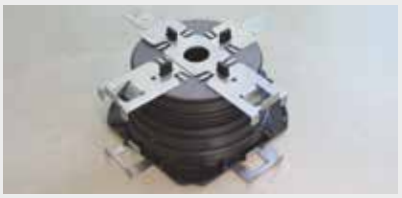
CLIP F



INSTALLATION OF **BASE-HEAD PERIMETER CORNER CLIPS**

F1. Place two SUPACLPB base clips perpendicular to each other under the pedestal base.

F2. Place the pedestal with the cut sides facing outwards.

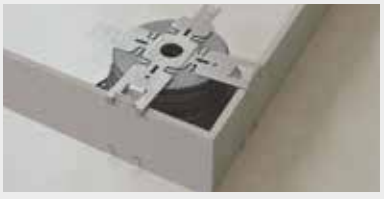


F3. Place two SUPACLPT head clips perpendicular to each other on the head of the pedestal.

N.B.

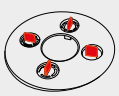
remove two of the base sides

F4. Cut the tile. The dimension of the tile is equal to the distance between the SUPACLPT clip and the SUPACLPB clip.



F5. Wedge the cut tile between the SUPACLPT clip and the SUPACLPB clip.

F6. Position the top tile.



remove the four tabs

INSTALLATION COMPONENTS

BASIC ELEMENTS

Choose from the following elements based on the desired height:

- 1a SUPAL - 28÷43 mm - 1-3/32" - 1-11/16"
- 1b SUPAS - 43÷58 mm - 1-11/16" - 2-9/32"
- 1c SUPAS + SUPAR - 43÷58 mm +30 mm 1-11/16" - 2-9/32" +1-3/16"
- 1d SUPAR120 - (optional)


1a SUPAL


1d SUPAR120 (optional)


1b SUPAS


1c SUPAS + SUPAR

- 2 SUPA2 - 3/32" - 2 mm tab or SUPA4 - 3/16" - 4 mm tab


2 SUPA2


2 SUPA4

- 3 3-in-1 Adjustment tool


3 SUPAK

- 4 SUPATRAY


4 SUPATRAY

- 5 SUPATRAYGRIP2 or SUPATRAYGRIP4


5 SUPATRAYGRIP2


5 SUPATRAYGRIP4

- 6 SUPATRAYTAB2 or SUPATRAYTAB4


6 SUPATRAYTAB2


6 SUPATRAYTAB4

- 7 SUPACLPP


7 SUPACLPP

ADDITIONAL TOOLS

- 8 Angle grinder


8

- 9 Measuring tape


9

- 10 Level


10

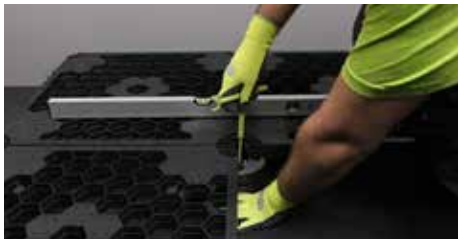
SAFETY SYSTEM INSTALLATION - Tiles 24" x 24" - 60 x 60 cm (**Standard** laying)

1. Remove the pedestal tabs where necessary to accommodate grid and tile positioning along the perimeter.

2. Adjust the pedestals to the required height prior to installation, then position them accordingly.

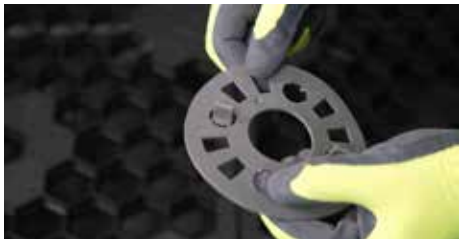
3. Place the SUPATRAY grid onto the pedestals.

4. Proceed with the placement of the subsequent SUPATRAY grids.



5. Verify that all SUPATRAY grids are level; if required, fine-tune the height using the SUPAK adjustment key.

6. Insert the SUPATRAYGRIP locking discs to securely interconnect the SUPATRAY grids.



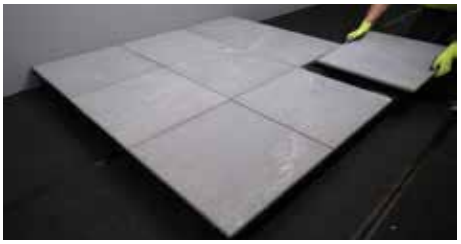
6. SUPATRAYTABS tabs may be removed to facilitate placement along the perimeter.

7. Position the SUPATRAYTABS rubber discs on top of the grids to create 2 mm and/or 4 mm joint spacing. SUPATRAYTABS also provide anti-slip and sound dampening properties .

8. Place the perimeter clip SUPACLIPP to provide protection between the tiles and the wall.

9. Begin laying the first tile (60×60 cm / 24"×24"), ensuring it is properly aligned and sits squarely on the SUPATRAY grids.

10. Continue installing tiles, ensuring each is properly aligned and seated on the SUPATRAY grids.



11. Repeat this process until the entire floor surface is covered.

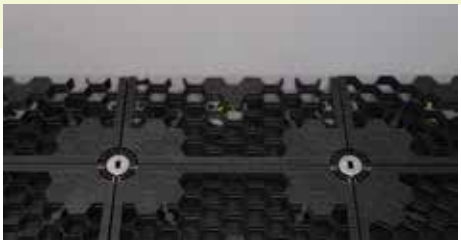
Please note:

Use SUPATRAYGRIP2 locking discs with SUPA2 pedestal heads
Use SUPATRAYGRIP4 locking discs with SUPA4 pedestal heads
Use SUPATRAYTAB2 with SUPATRAYGRIP2
Use SUPATRAYTAB4 with SUPATRAYGRIP4

SAFETY SYSTEM INSTALLATION (**Perimeter cut sections**)

Cut SUPATRAY grids to the required size for perimeter placement. Use larger cut sections when possible to improve pedestal positioning underneath.

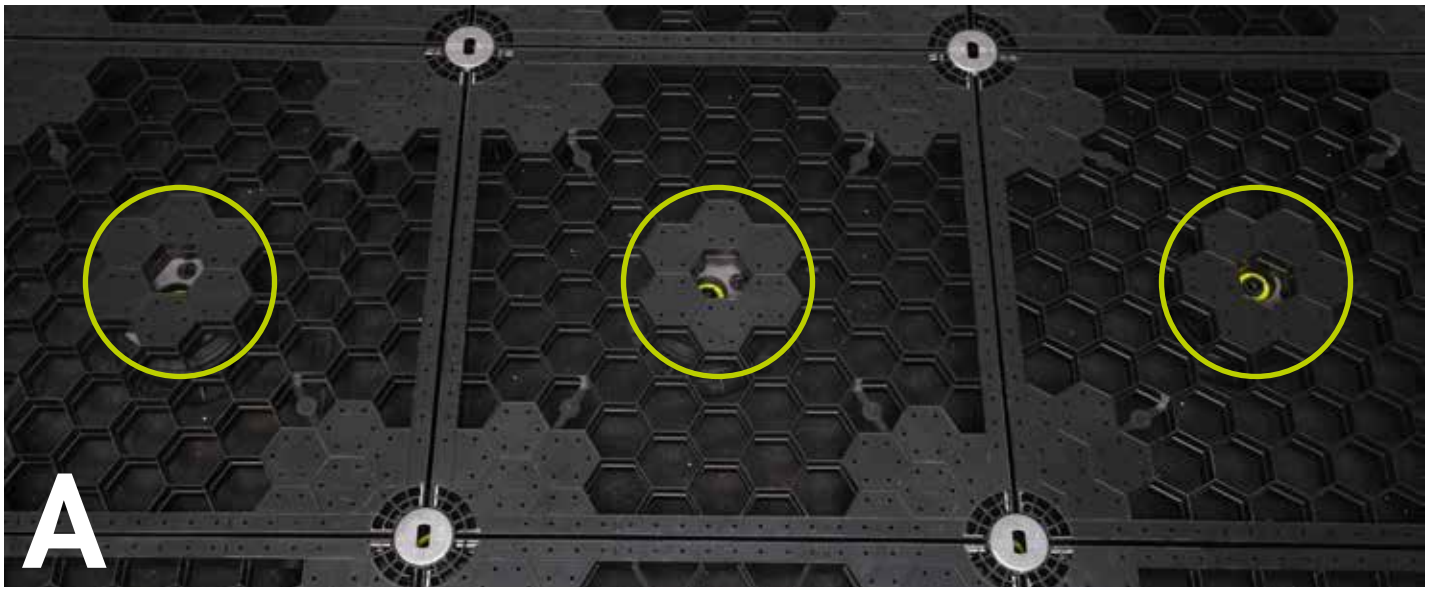
Lay cut grids on pedestals. Add extra pedestals as needed to support cut sections.



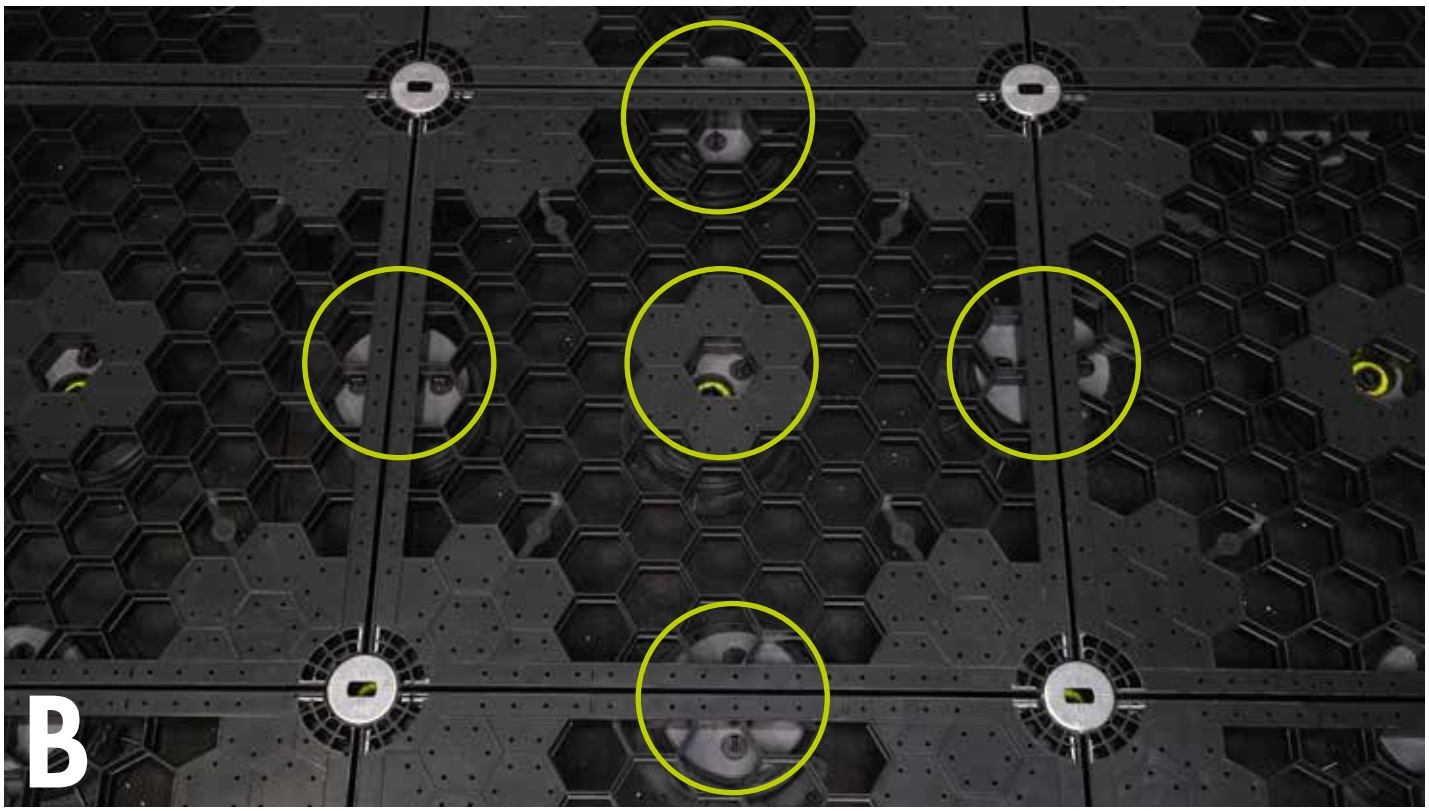
Cut tiles to match the shape and size of the trimmed SUPATRAY grids. Ensure a square fit.

SAFETY SYSTEM INSTALLATION (**Running bond and/or multiformat laying**)

For running bond patterns, multi-format tiles, or layouts where tiles do not align squarely with the SUPATRAY grid, add extra pedestals (central and/or lateral depending on tiles format) under the grids to ensure a stable floor.



Installation with central pedestals



Installation with central and lateral pedestals

INSTALLATION COMPONENTS

BASIC ELEMENTS

Choose from the following elements based on the desired height:

- 1a SUPAL - 28÷43 mm - 1-3/32" - 1-11/16"
- 1b SUPAS - 43÷58 mm - 1-11/16" - 2-9/32"
- 1c SUPAS + SUPAR - 43÷58 mm +30 mm 1-11/16" - 2-9/32" +1-3/16"
- 1d SUPAR120 - (optional)


SUPAL


SUPAR120 (optional)


SUPAS


SUPAS + SUPAR

- 2 SUPA4 - 3/16" - 4 mm tab


SUPA4

- 3 3-in-1 Adjustment tool


SUPAK

- 4 SUPATRAY


SUPATRAY

- 5 FIXXTEC
- 6 SUPALOCK with Pin (to be used with 3/16" - 4 mm spacing head SUPA4


FIXXTEC


SUPALOCK

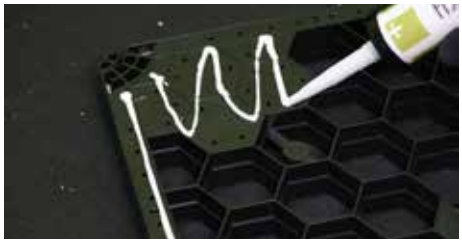
- 7 SUPAA24 perimeter profile


SUPAA24

ADDITIONAL TOOLS NECESSARY

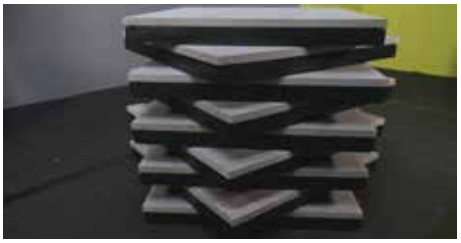
- 8 Angle grinder
- 9 Measuring tape
- 10 Level
- 11 Screwdriver
- 12 Screws for Aluminum

WIND UPLIFT SYSTEM INSTALLATION



1. Apply FIXXTEC adhesive to the designated tracks on the SUPATRAY safety grid.

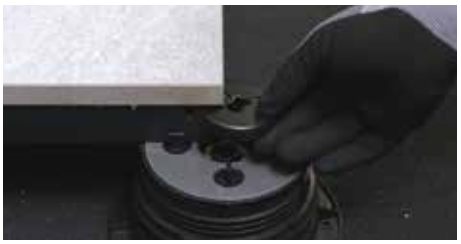
2. Place the 25/32" - 2 cm paver squarely onto the SUPATRAY, ensure the paver does not extend beyond any edge of the safety grid.



3. Stack each new paver/SUPATRAY assembly on top of the previous one, let sit until the adhesive has cured, before handling.

4. Adjust the pedestals to the desired height and position them along the perimeter.

5. Place a paver/SUPATRAY assembly on four (4) pedestals, removing tabs as needed for perimeter placement.



6. Insert the SUPALOCK into the groove at the SUPATRAY corner.

7. Place the second paver/SUPATRAY assembly.

8. Use the SUPAK key to lock the two paver/SUPATRAY assemblies by rotating the SUPALOCK.

9. Place the third paver/SUPATRAY assembly.

10. Use the SUPAK key to secure all three paver/SUPATRAY assemblies by rotating the SUPALOCK.

11. Ensure a SUPALOCK is inserted into each paver/SUPATRAY assembly before placing the next one.

12. Place the fourth paver/SUPATRAY assembly and use the SUPAK key to lock the assembly by rotating the SUPALOCK into the locked position.

13. Insert the pin into the opening on the SUPALOCK is visible through the 5/32" - 4 mm joint.

14. Raised floor completed.

PERIMETER PROFILE APPLICATION - LAYING MODE **A**

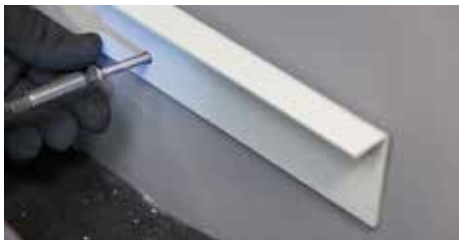
15. Position the aluminum profile over the pavers along the wall or parapet.

16. Secure the profile to the wall using fasteners.

17. The profile can be installed in either an upturned or downturned position.

PERIMETER PROFILE APPLICATION - LAYING MODE **B**

15. Use a measuring tape to determine the desired height of the finished floor.

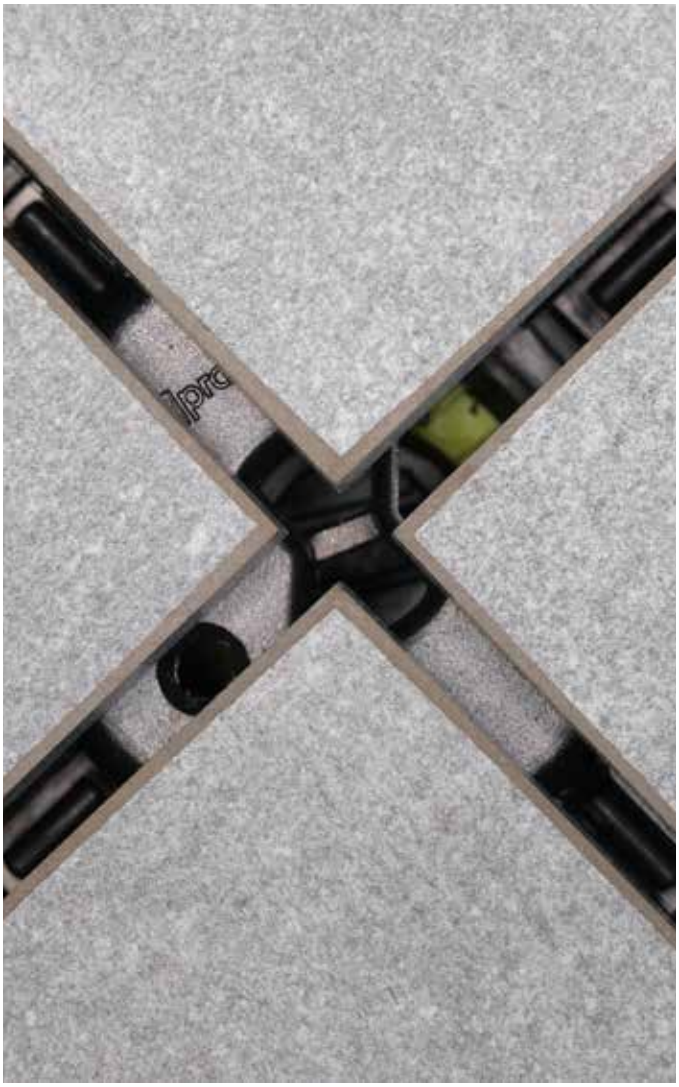


16. Secure the profile to the wall using fasteners.

17. Place the last row of paver/ SUPATRAY assemblies.

18. Use the SUPAK key to lock the last row of paver/SUPATRAY assemblies by rotating the SUPALOCK into the locked position.

19. Raised floor completed.



INSTALLATION COMPONENTS

BASIC ELEMENTS

Choose one of the following elements based on the desired height:

- 1a SUPAL - 28÷43 mm - 1-3/32″ - 1-11/16″
- 1b SUPAS - 43÷58 mm - 1-11/16″ - 2-9/32″
- 1c SUPAS + SUPAR - 43÷58 mm +30 mm 1-11/16″ - 2-9/32″ +1-3/16″
- 1d SUPAR120 - (optional)
- 2 SUPA4 - 4 mm - 5/32″ tab
- 3 Aluminum joists L = 2.40 m - 7-7/8″
- 4 3-in-1 Adjustment tool

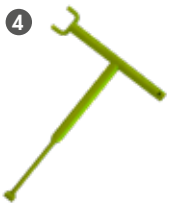

SUPAL


SUPAR120 - (optional)


SUPAS


SUPAS + SUPAR


SUPA4


SUPAK

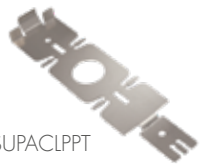

SUPAANG240

ACCESSORIES

- 5 Perimeter wall spacer clip
- 6 Vertical edge clip - head
- 7 Perimeter tile spacer - Joist
- 8 Tile spacer (4 mm - 5/32″ thickness)
- 9 Joist junction


SUPACLPP


SUPACLPT


SUPACLPPT

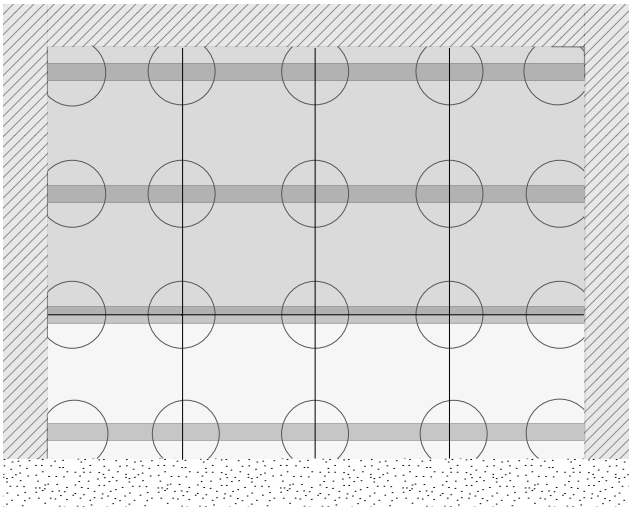

SUPDG


SUPAJG

ADDITIONAL TOOLS

- 10 Hand saw
- 11 Measuring tape
- 12 Level
- 13 Cutter

PEDESTAL PLACEMENT DIAGRAM



Installation diagram for a rectangular terrace enclosed on two sides. The letter specified indicates the type of pedestal, of which the installation process will be explained below.

The installation must be **closed** on all sides by either walls or specific perimeter enclosing systems (clips).

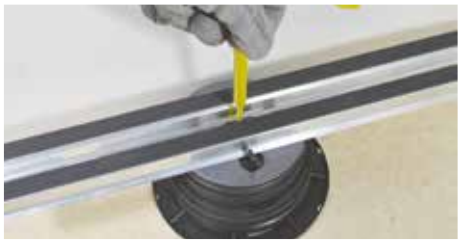
For lengths longer than 2.40 m - 7-7/8", place several joists together lengthwise, keeping a distance of 5 mm - 3/16" between the end of one joist and the beginning of the next or connect with the appropriate SUPAJG junction.

Keep a maximum center-to-center distance of 50 or 60 cm 20" or 24"between pedestals, depending on the length of the joist.

1. Turn the base upside down and remove two sides along the marked lines.

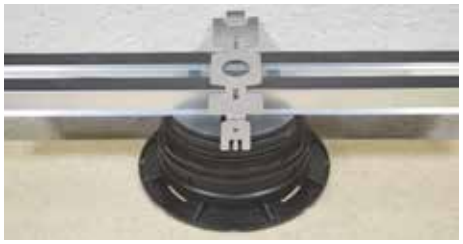
2. Place the pedestals against the wall.

3. Insert the SUPAANG joist between the tabs of the pedestals.



4. Level the pedestals with the SUPAK key to obtain a flat surface.

5. Corner - Place SUPACLPPT spacer clips perpendicular and parallel to the joist and up against the wall.



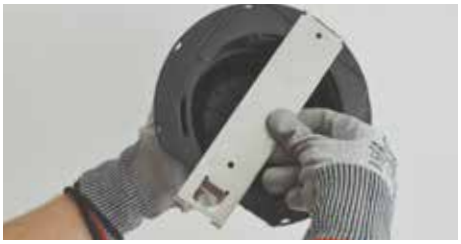
6. Perimeter - Place the SUPACLPPT spacer clip perpendicular to the joist and up against the wall.

7. Place the remaining pedestals.

8. Place the following joist, distanced from the wall, with the SUPACLPPT clip.

9. Complete the installation in the whole area.

CLOSING THE OPEN EDGE



10. Place the SUPACLPB clip under the pedestal base.

11. Place the support with a cut side up against the wall and the other cut side facing out.

12. Edge - Place the SUPAANG joist. Then place the spacer clip SUPACLPPT parallel and the closing clip SUPACLPT perpendicular to the joist.

13. Perimeter - Place the closing clip SUPACLPT perpendicular to the joist.

14. Wedge the cut tile between the SUPACLPT clip and the SUPACLPB clip.

15. Complete the installation.

INSTALLING **TILES** WITH **SPACERS** ON JOISTS - (staggered tiles)

16. Insert the the SUPDG spacers in the slot on the joists, so as to keep the same distance between the tiles.

17. Install the rest of the tile.

INSTALLING **TILES** WITH **SPACERS** ON JOISTS - (straight tiles)

16. Insert the SUPDG spacers (removing unnecessary tabs) into the slot on the joist where the staggered tile of the next row will be installed.

17. Install the rest of the tile.

CLOSING WITH THE BSJ PROFILE

After positioning the pedestal and the clips, place the BSJ profile.

Wedge the cut tile between the BSJ profile and the SUPACLPB clip.

Position the top tile.

CLOSING WITH THE BST PROFILE

After positioning the pedestal and the clips, place the BST profile.

Wedge the cut tile between the BST profile and the SUPACLPB clip.

Position the top tile.

CLOSING WITH THE BSR PROFILE

After positioning the pedestal and the SUPACLPPT clip, place the BSR profile.

Position the top tile.

INSTALLATION COMPONENTS

BASIC ELEMENTS

Choose one of the following elements based on the desired height:

- 1a SUPAL - 28÷43 mm - 1-3/32" - 1-11/16"
- 1b SUPAS - 43÷58 mm - 1-11/16" - 2-9/32"
- 1c SUPAS + SUPAR - 43÷58 mm +30 mm 1-11/16" - 2-9/32" +1-3/16"
- 1d SUPAR120 - (optional)
- 2 SUPA4 - 4 mm - 5/32" tab
- 3 Aluminum joists L = 2.40 m - 6' 7"
- 4 3-in-1 Adjustment tool


SUPAL


SUPAR120 - (optional)


SUPAS


SUPAS + SUPAR


SUPA4


SUPAK


SUPAANG240

PERIMETER ACCESSORIES

- 5 Clips for holding the boards
- 6 Joist junction

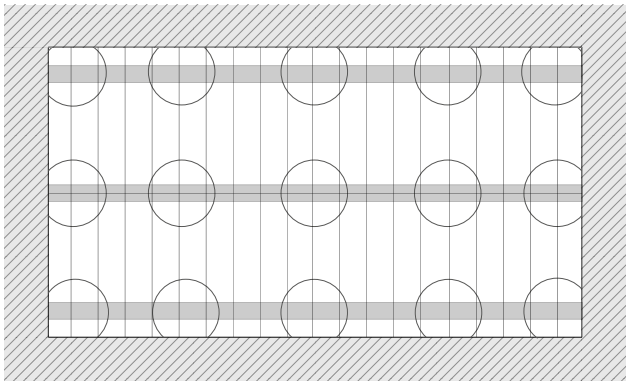

SUPCLIPG


SUPAJG

ADDITIONAL TOOLS NECESSARY

- 7 Hand saw
- 8 Measuring tape
- 9 Level
- 10 Screwdriver
- 11 Screws for Aluminum

PEDESTAL PLACEMENT DIAGRAM



Installation diagram of a rectangular terrace closed on four sides. The letter specified indicates the type of pedestal, of which the installation process will be explained below.

The installation must be **closed** on all sides.

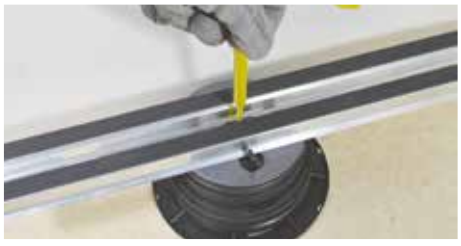
For lengths longer than 2 m - 6'7", place several joists together lengthwise, keeping a distance of 5 mm - 3/16" between the end of one joist and the beginning of the next.

Maintain a maximum center-to-center distance of 50 or 60 cm - 20" or 24" between pedestals, depending on the length of the joist.

1. Turn the base upside down and remove two sides along the marked lines.

2. Place the pedestals against the wall.

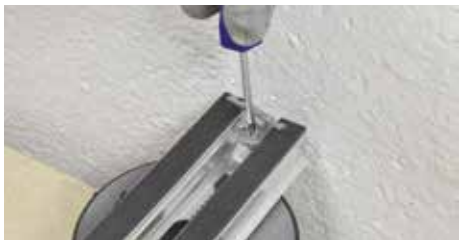
3. Insert the SUPAANG joist between the tabs of the pedestals.



4. Level the pedestals with the SUPAK key to obtain a flat surface.

5. Insert the clip horizontally and then rotate it 90° to lock it in.

6. Bring the SUPCLIPG clip closer to the wall.



7. Secure the clip to the joist.

8. Position the wooden lath by inserting its slot into the clip.

9. Position a SUPCLIPG clip to block the board.

10. Position the next SUPCLIPG clips.

11. Position all the wood boards.

Please note: *If the decking is installed diagonal to the joists, the clip can be rotated up to 40° in both directions.*

INSTALLATION COMPONENTS

BASIC ELEMENTS

Choose one of the following elements based on the desired height:

- 1a SUPAL - 28÷43 mm - 1-3/32" - 1-11/16"
- 1b SUPAS - 43÷58 mm - 1-11/16" - 2-9/32"
- 1c SUPAS + SUPAR - 43÷58 mm +30 mm 1-11/16" - 2-9/32" +1-3/16"
- 1d SUPAR120 - (optional)
- 2 SUPAW - tab for wood joists
- 3 3-in-1 Adjustment tool


1a SUPAL


1d SUPAR120 - (optional)


1b SUPAS


1c SUPAS + SUPAR


2 SUPAW


3 SUPAK

ADDITIONAL TOOLS NECESSARY

- 4 Wood joists

- 5 Hand saw

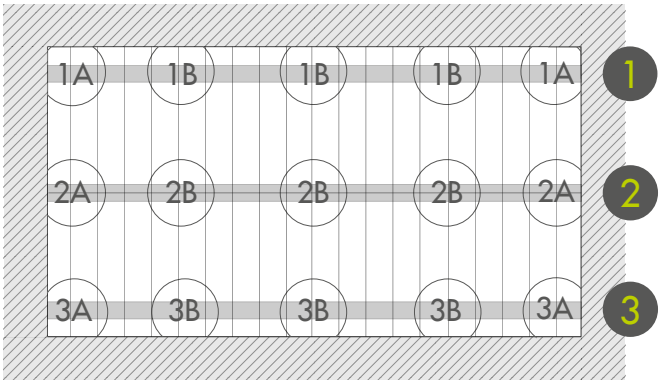
- 6 Measuring tape

- 7 Level

- 8 Screwdriver

- 9 Screws for wood

PEDESTAL PLACEMENT DIAGRAM



Installation diagram of a rectangular terrace closed on four sides. The letter specified indicates the type of pedestal, of which the installation process will be explained below.

The installation must be **closed** on all sides.

When placing several joists together lengthwise, keep a distance of 5 mm between the end of one joist and the beginning of the next.

Fasten the wood joists to the SUPAW tabs alternating between left and right, in order to compensate material movement or shifting.

1 CONFIGURATION

POSITIONING **WALL CORNER** PEDESTALS 1A

1. Turn the base upside down and remove two sides along the marked lines.

2. Assemble the pedestal and position the two cut sides in the corner.

POSITIONING **WALL PERIMETER** PEDESTALS 1B

3. Turn the base upside down and remove one of the sides along the marked line.

4. Assemble the pedestal and position it with the cut side towards the wall.

POSITIONING **WOOD JOIST 1**

5. Position the wood joist on the SUPAW tab.

6. Screw the wood joist to the pedestal through the specific slots (use a screwdriver).

7. Check to make sure that the wood joists are firmly attached to each pedestal.

2 CONFIGURATION

POSITIONING **PERIMETER WALL** PEDESTALS 2A

8. Turn the base upside down and remove one of the sides along the marked line.

9. Assemble the pedestal and position it with the cut side towards the wall.

POSITIONING **CENTRAL** PEDESTALS 2B

10. Assemble the pedestal and place it on the floor.

11. Maximum center-to-center distance between pedestals: 60 cm - 24".

POSITIONING **WOOD JOIST 2**

12. Position the wood joist on the SUPAVV tab.

13. Screw the wood joist to the pedestal through the specific slots (use a screwdriver).

14. Check to make sure that the wood joists are firmly attached to each pedestal.

3 CONFIGURATION

POSITIONING **WALL CORNER** PEDESTALS 3A

15. Turn the base upside down and remove two sides along the marked lines.

16. Assemble the pedestal and position the two cut sides in the corner.

POSITIONING **PERIMETER** PEDESTALS

17. Turn the base upside down and remove one of the sides along the marked line.

18. Assemble the pedestal and position it with the cut side towards the wall.

POSITIONING **WOOD JOIST 3**

19. Position the wood joist on the SUPAW tab.

20. Screw the wood joist to the pedestal through the specific slots (use a screwdriver).

21. Check to make sure that the wood joists are firmly attached to each pedestal.

INSTALLING **WOOD** BOARDS ON JOISTS WITH **SCREWS**

22. Check to make sure that the installation is leveled.

23. Place the first wood board against the wall.

24. Screw the wood board to the underlying joist with a screwdriver.

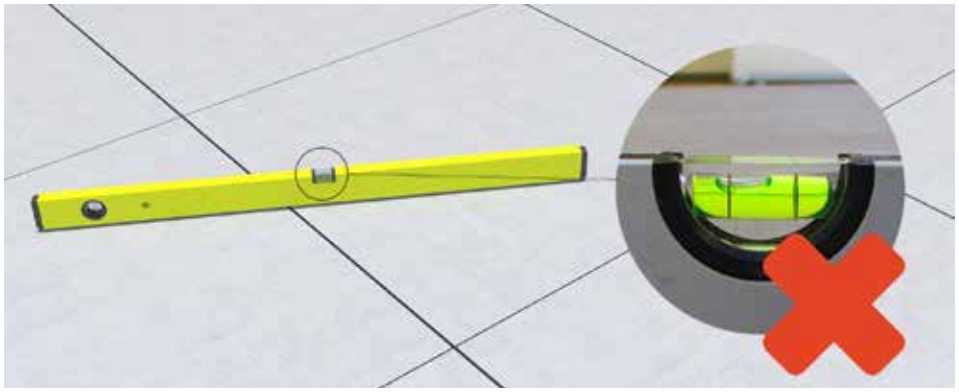
25. Position the first row of wood boards, screwing them to the underlying joists.

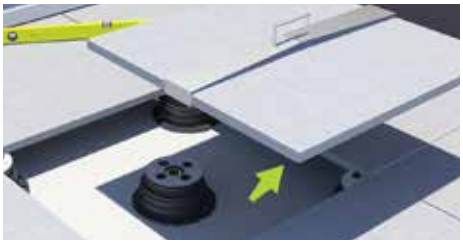
26. Install the remaining boards.

***Please note**: The boards can also be attached to the joists with hammer and nails.*

A. SPECIAL CASE - ADJUSTING CENTRAL PEDESTALS

If installed tiles are unleveled, the height of the pedestals can be adjusted by removing one tile and checking the central pedestal.





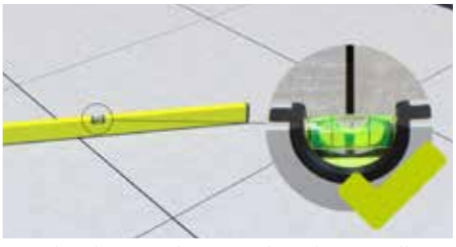
1. Remove the unleveled tile.

2. Place the pedestal at the level of the adjacent tiles in order to correctly modify the height.

3. Use the SUPAK Adjustment Tool to change the height of the pedestal.

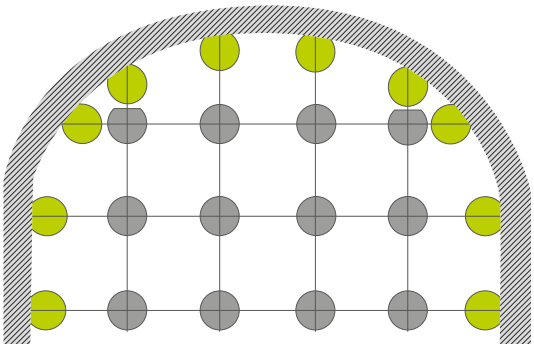
4. Once the height has been corrected, place the pedestal at the center of the tile again.

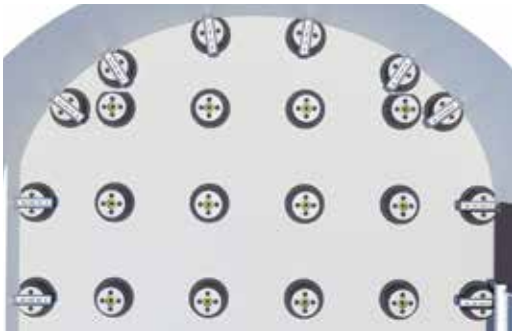
5. Position the tile.



6. Check to make sure that the installation is leveled.

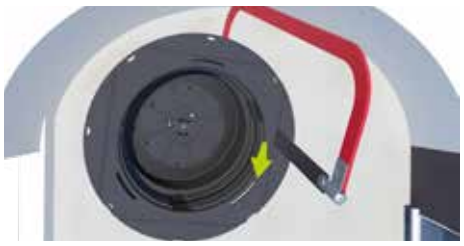
B. SPECIAL CASE – CURVED WALL





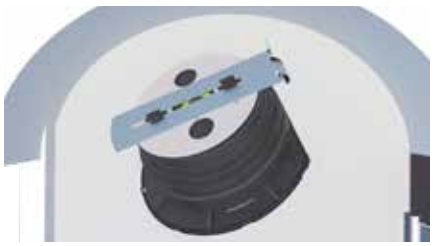
We suggest making a layout diagram before starting the installation.

It is important to make sure that the tiles cut along the wall sit firmly on all corners.



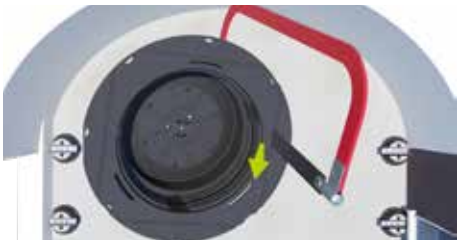
1. Cut one side of the pedestal.

2. Remove the two tabs parallel to the cut on the base.

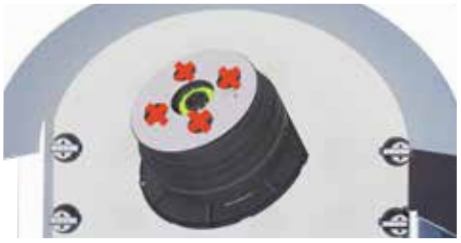


3. Place the SUPACLPP perpendicular to the wall.

4. Place the pedestals in the positions indicated on the layout diagram.



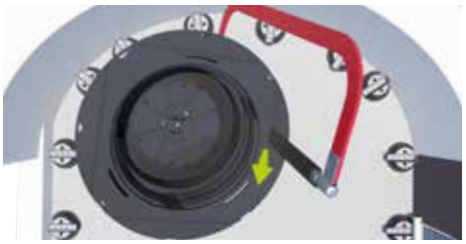
5. Cut one side of the pedestal.



6. Remove all tabs on the head.

7. Place the SUPACLPP perpendicular to the wall.

8. Place the pedestals on the positions indicated in the layout diagram.

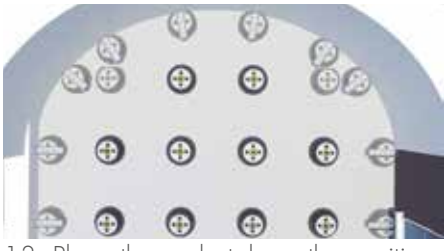


9. Cut one side of the pedestal.

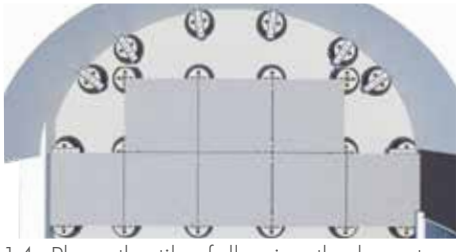
10. Keep all four tabs.

11. Place the pedestals on the positions indicated in the layout diagram.

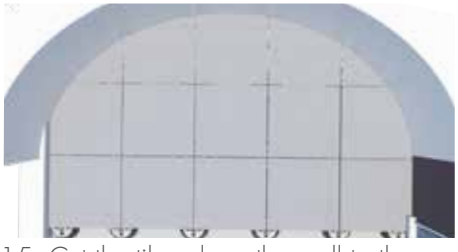
12. Keep the entire pedestal intact.



13. Place the pedestals on the positions indicated in the layout diagram.



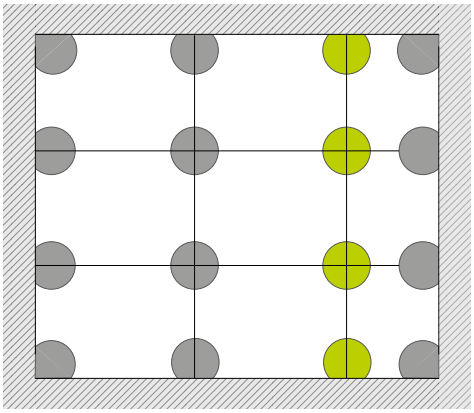
14. Place the tiles following the layout diagram.

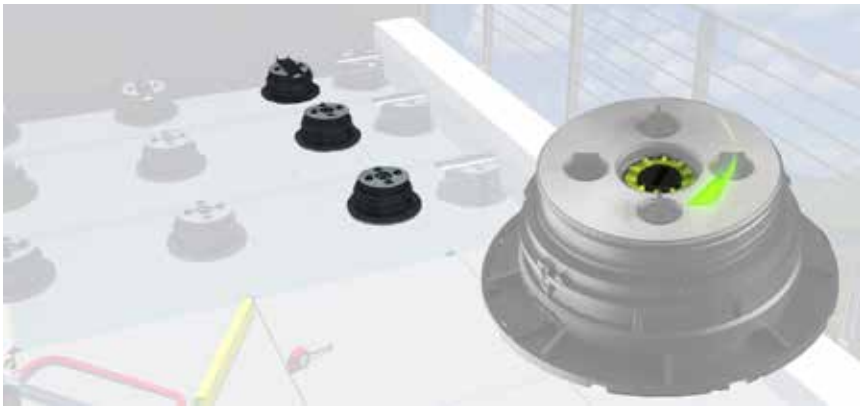


15. Cut the tiles along the wall to the correct shape and install them following the layout diagram.

C. SPECIAL CASE – UNEQUAL LOAD

Use a fixed head only on the pedestals on which there is an unequal load.
Example: a terrace closed on all four sides and installed with 60x60 cm - 24"x24" tile. If the last row of tile must be cut to size, the pedestals which simultaneously support the 60x60 (24"x24") tiles and the cut tiles must be assembled with a fixed head.



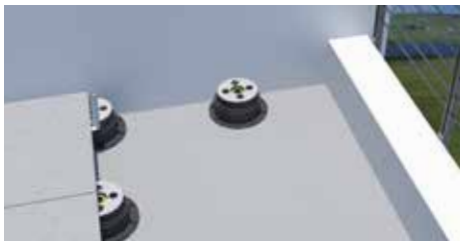


PLEASE NOTE: If the flooring is sloped, use SUPL2 or SUPL3 discs for the fixed head pedestals.

SUPL2
2 mm - 3/32"
thickness

SUPL3
3 mm - 1/8"
thickness

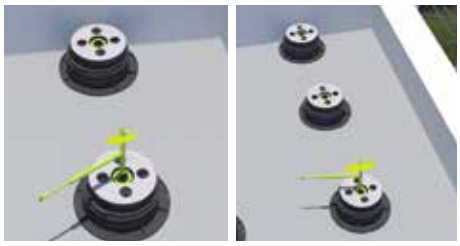
1. Cut one side of the pedestal.



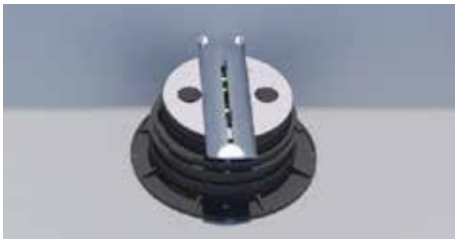
2. Place the pedestal with the cut side against the wall.

3. Remove the two tabs parallel to the wall.

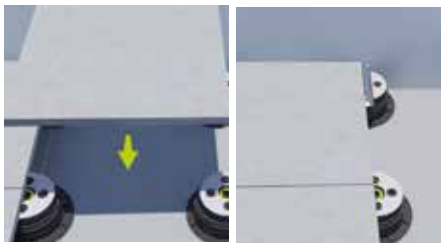
4. Lock the pedestal in 'fixed head' mode by turning the Locking Disc clockwise.



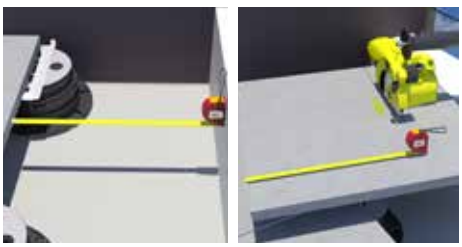
5. Position the rest of the pedestals, attaching the head by turning the Locking Disc.



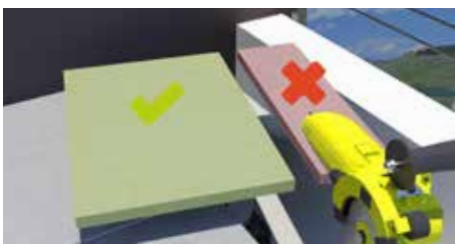
6. Position the SUPACLPP clip.



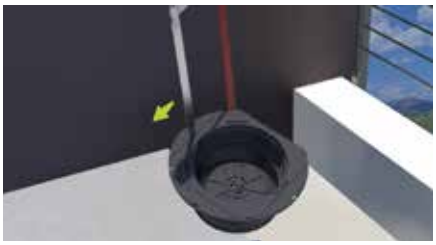
7. Install the tile.



8. Measure the remaining distance.



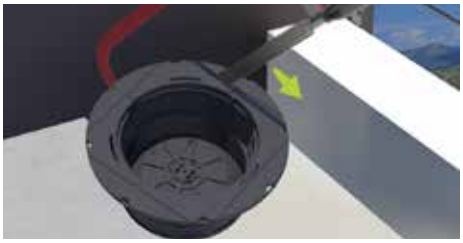
9. Cut the tile.



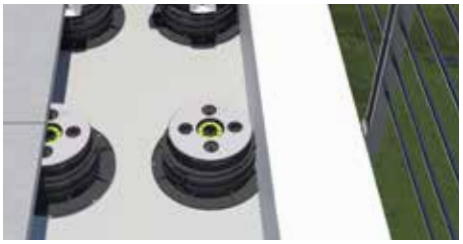
10. Cut two sides of the pedestal.

11. Place the pedestal in the corner and remove all 4 tabs.

12. Place two SUPACLPP spacer clips perpendicular to each other.

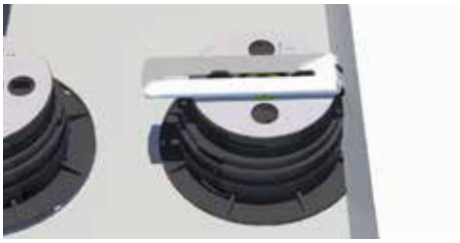


13. Cut one side of the pedestal.

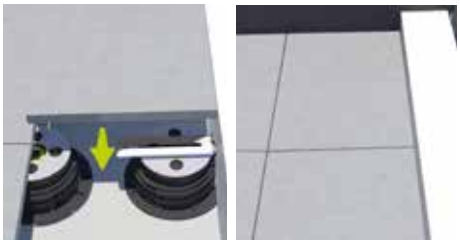


14. Position the pedestal with the cut side against the wall.

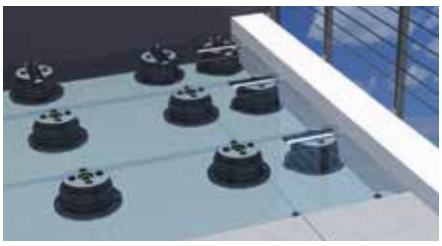
15. Remove the two tabs parallel to the wall.



16. Position the SUPACLPP spacer clip.



17. Position the tile.



18. Pedestal layout diagram.

Testing carried out by the Industrial Engineering Department of the University of Trento.

The table below shows the breaking load results obtained by testing the pedestals in various conditions: with a self-leveling or fixed head, with a flat or inclined support surface, and in various temperatures and load application speeds.

Model	Height		Head	Surface	Temperature		Speed		Breaking load	
	mm	in			°C	°F	mm/min	in/min	kN	lbF
SUPAL-28/43	43	1-11/16	FIXED	HORIZONTAL	21	69.8	10	3/8	15.58 ± 0.54	3502.52 ± 121.4
SUPAL-28/43	43	1-11/16	SELF-LEVELING	INCLINED	21	69.8	10	3/8	13.93 ± 0.24	3131.59 ± 211
SUPAS-58/88	88	3-15/32	FIXED	HORIZONTAL	21	69.8	100	4	14.48 ± 0.89	3255.23 ± 200
SUPAS-508/538	538	21-3/16	SELF-LEVELING	INCLINED	21	69.8	100	4	13.67 ± 0.90	3073.14 ± 202.33
SUPAS-58/88	88	3-15/32	FIXED	HORIZONTAL	-20	-4	100	4	21.86 ± 0.97	4914.32 ± 218.06
SUPAS-58/88	88	3-15/32	FIXED	HORIZONTAL	80	176	100	4	5.31 ± 0.48	1193.74 ± 107.91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positive profile
EN FR ES
Test report: Uptec Profilitec Trento, February 25th 2019
Applicant: Profilitec S.p.A.
Application: Specimen received at 28/01/2019
Material: Modular pedestals Uptec (SUPAL4-28/43) made of PP / 15% calcium carbonate.
Required test: Uniaxial compression test at constant speed and measurement of the compression load of the specimen and the displacement of the testing machine's crossbar at the break of the specimen. Moreover, the stiffness of the specimen was measured in the linear part of the load-displacement curve.
Testing method: Compression tests were performed on 3 specimens for each sample. The components of the pedestal had been assembled, the height of the specimen was regulated according to Table 1 and the 4 tabs on top of the pedestal were removed before the test.
Specimens were placed on an aluminum plate provided by Profilitec S.p.A. Two screws had been used for the alignment of the pedestal inside the machine avoiding any possible misalignments. The upper plate was a circular and flat one provided by Instron.
An electro-mechanical testing machine, Instron 5969, was employed to perform uniaxial compression tests under displacement control. Load was applied with a constant displacement rate of 1.67 10⁻³ m/s. Test was stopped when a sharp load drop was measured that indicated the breakage of the pedestal. A load cell with a load capacity of 50 kN was employed to measure and record the force during the test.
Stiffness of the specimens was calculated in the linear part of the load-displacement curve, in particular, it was taken in account the part of the curve between 2.5 kN and 5 kN.
Test activities were carried out on January 28th, 2019. Tests were done at 21°C and a humidity level of 20%.
The executor of the test ing. Daniele Rigotti
The responsible for the laboratory prof. Alessandro Pegoretti
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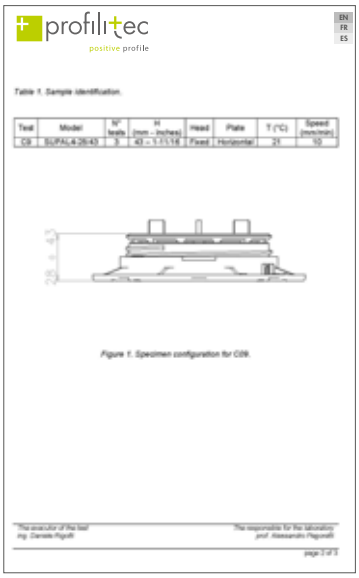
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Table 1. Sample identification.
Test | Model | N° tests | H (mm - inches) | Head | Plate | T (°C) | Speed (mm/min)
C09 | SUPAL4-28/43 | 3 | 43 - 1-11/16 | Fixed | Horizontal | 21 | 10
Figure 1. Specimen configuration for C09.
The executor of the test ing. Daniele Rigotti
The responsible for the laboratory prof. Alessandro Pegoretti
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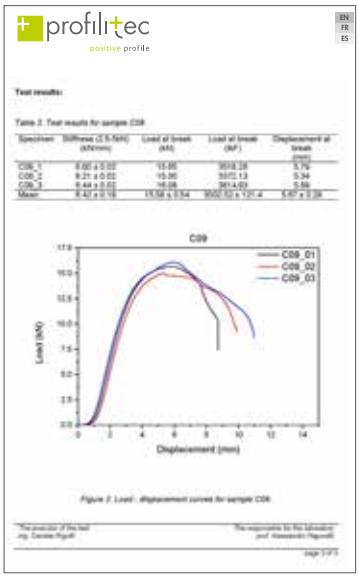
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Test results:
Table 2. Test results for sample C09
Specimen | Stiffness (2.5-5kN) (kN/mm) | Load at break (kN) | Load at break (lbF) | Displacement at break (mm)
C09_1 | 8.60 ± 0.02 | 15.85 | 3518.38 | 5.79
C09_2 | 8.21 ± 0.02 | 15.30 | 3372.13 | 5.34
C09_3 | 8.44 ± 0.02 | 14.08 | 3614.83 | 5.59
Mean: | 8.42 ± 0.19 | 15.08 ± 0.54 | 3502.45 ± 121.4 | 5.57 ± 0.28
C09
C09_01
C09_02
C09_03
Load (kN)
Displacement (mm)
Figure 2. Load - displacement curves for sample C09.
The executor of the test ing. Daniele Rigotti
The responsible for the laboratory prof. Alessandro Pegoretti
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profilitec
positive profile
EN FR ES
Test report: Uptec Profilitec Trento, February 25th 2019
Applicant: Profilitec S.p.A.
Application: Specimen received at 28/01/2019
Material: Modular pedestals Uptec (SUPAL4-28/43) made of PP / 15% calcium carbonate.
Required test: Uniaxial compression test at constant speed and measurement of the compression load of the specimen and the displacement of the testing machine's crossbar at the break of the specimen. Moreover, the stiffness of the specimen was measured in the linear part of the load-displacement curve.
Testing method: Compression tests were performed on 3 specimens for each sample. The components of the pedestal had been assembled, the height of the specimen was regulated according to Table 1 and the 4 tabs on top of the pedestal were removed before the test.
Specimens were placed on an aluminum plate provided by Profilitec S.p.A. with a tilt of 5%. Two screws had been used for the alignment of the pedestal inside the machine avoiding any possible misalignments. The upper plate was a circular and flat one provided by Instron.
An electro-mechanical testing machine, Instron 5969, was employed to perform uniaxial compression tests under displacement control. Load was applied with a constant displacement rate of 1.67 10⁻³ m/s. Test was stopped when a sharp load drop was measured that indicated the breakage of the pedestal. A load cell with a load capacity of 50 kN was employed to measure and record the force during the test.
Stiffness of the specimens was calculated in the linear part of the load-displacement curve, in particular, it was taken in account the part of the curve between 2.5 kN and 5 kN.
Test activities were carried out on January 28th, 2019. Tests were done at 21°C and a humidity level of 20%.
The executor of the test ing. Daniele Rigotti
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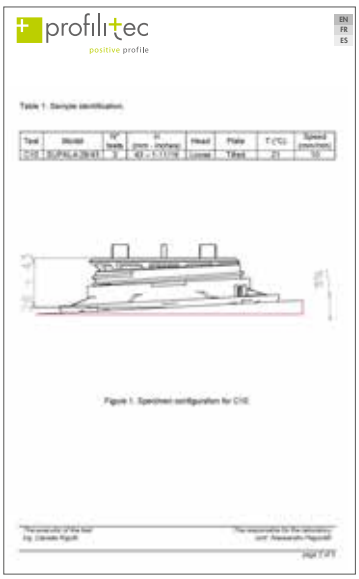
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Table 1. Sample identification.
Figure 1. Specimen configuration for C10.
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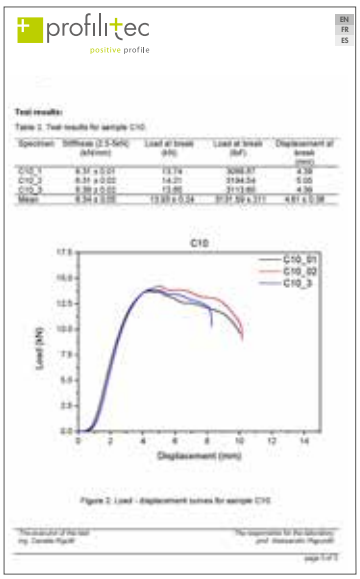
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Test results:
Table 2. Test results for sample C10
Specimen | Stiffness (2.5-5kN) (kN/mm) | Load at break (kN) | Load at break (lbF) | Displacement at break (mm)
C10_1 | 8.34 ± 0.01 | 13.74 | 3088.87 | 4.59
C10_2 | 8.31 ± 0.02 | 14.21 | 3194.54 | 5.05
C10_3 | 8.38 ± 0.02 | 13.86 | 3113.60 | 4.36
Mean: | 8.34 ± 0.09 | 13.93 ± 0.24 | 3131.59 ± 211 | 4.67 ± 0.38
C10
C10_01
C10_02
C10_03
Load (kN)
Displacement (mm)
Figure 2. Load - displacement curves for sample C10.
The executor of the test ing. Daniele Rigotti
The responsible for the laboratory prof. Alessandro Pegoretti
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