



A1 SMART-PED SYSTEM

DESIGNED FOR NON-COMBUSTIBLE
APPLICATIONS AND TO PREVENT WIND UPLIFT

INNOVATIVE DESIGNED SYSTEM

The unique patented A1 Smart-Ped system is a non combustible aluminium and zinc coated steel pedestal system for rooftop terraces, balconies and flat roofs designed to BS 8579, Guide to the design of balconies and terraces.

The system consists of four parts:

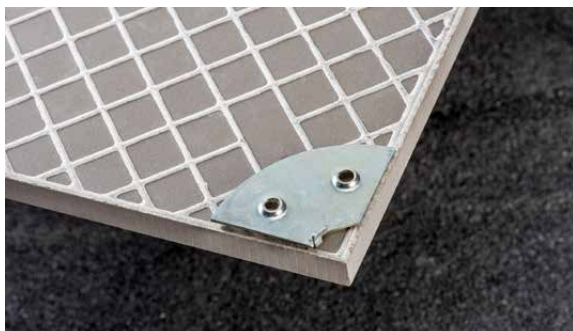
- The Smart-Ped lock (support head)
- rod with locking nuts,
- and a Smart-Ped Short-base or Smart-Ped Base,
- Dreen Hybrid adhesive HP50.

The Smart-Ped lock includes four locked corner pieces which can be locked and unlocked with a 4 mm screwdriver. To create the desired paving pattern, remove spacer(s) with pliers. Keep all four for a standard pattern; remove one for stretcher bond; remove two opposite ones in edge zones.

The system is designed to operate with an adhesive bond between the slabs and pedestals, which ensures a strong surface achieved without cumbersome mechanical fixings. The system is specifically designed for applications where a non combustible pedestal is required with the significant additional benefit of resisting wind uplift as a monolithic system.

DESIGNING FOR FIRE

Approved Document B (2019) of the Building Regulations (Amended 2020), in conjunction with BS 8579, Guide to the Design of Balconies and Terraces, and the Building Regulations 2010, covers various aspects of fire safety to ensure the protection of building occupants. Building materials



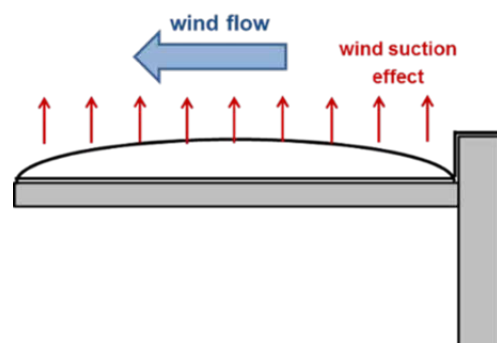
and systems must meet strict fire resistance standards to prevent the rapid spread of fire.

The A1 Smart-Ped system is a lightweight, non-combustible metal pedestal solution designed specifically for balconies and rooftop terraces. It complies with the A1 fire rating, offering a safe and durable support system for outdoor flooring.

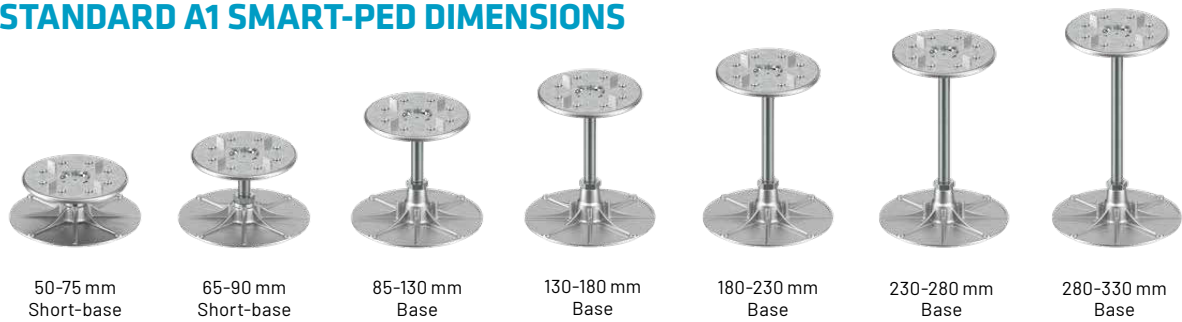
Dreen®Ceramica, when installed with the A1 Smart-Ped system and Dreen®Hybrid adhesive HP50, has achieved a reaction to fire classification of A2, as tested by Warringtonfire. A safe and reliable solution for modern rooftop terraces.

DESIGNING FOR WIND

The pedestal system secures rooftop paving against the effects of wind. The slabs are adhered to the underlying A1 Smart-Ped system using a non combustible adhesive. The locking plate in the middle of the support locks the slabs into position. With this system you can create a raised paved surface which resists wind uplift but the slabs are still removable. The demountable nature of the system means that the waterproofing remains accessible (if necessary). Zoontjens plastic fore-runner of this system (Dreen®Ceramica Fixplate lock system) has been tested for wind uplift with the test results available upon request.

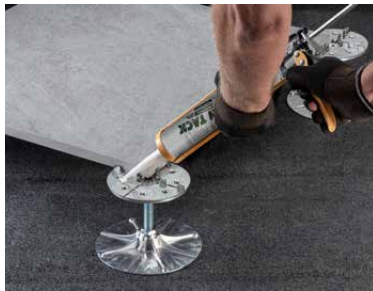


STANDARD A1 SMART-PED DIMENSIONS



QUICK AND SIMPLE INSTALLATION

Lightweight slabs must be bonded to act monolithically and resist wind uplift. With the system adjustable heights can be achieved, from 40 mm to 330 mm. For a 40-50 or 50-65 mm height system, please contact us for more information.



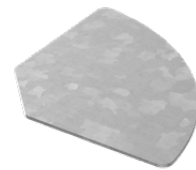
FEATURES:

- No fiddly mechanical fixings
- No expensive fixing channels in the paving slabs
- Individual demountable corner pieces
- Class A1 - fire rated
- Smart locking mechanism
- Recycled Aluminium and zinc-coated steel
- Height from 40 mm to 330 mm
- Quick and Simple installation
- Removable spacers for various bond patterns
- Adjustable base plate for sloping roofs up to 6 degrees

ACCESSORIES

Smart-Ped Shims

Zinc-coated steel shims can be used for the head of the A1 Smart-Ped system to aid stability or compensate for variations in pavement thickness. With their shape and profiling, they are designed in such a way that they fit exactly and can be fixed on the removable corner pieces of the support head.



Smart-Ped Slope Correction

The aluminium slope corrector in combination with the Smart-Ped pedestal creates a perfect level roof paving for walkways, terraces and podium decks. The versatility of our system means that they can be used easily for a small roof top terrace or for larger public stage decks.

One slope corrector can create or compensate up to 2% slope. Maximum three stacked together can compensate up to 6%.



Dreen Hybrid adhesive HP50

The Smart-Ped is provided with demountable corner pieces. Apply two dabs of 15-20 mm adhesive on top of each corner piece. Then place the slabs. As a result the slabs are locked and cannot move anymore. The adhesive is available in cartridges (290 ml for +/- 12 m²).



A1 SMART-PED SYSTEM



Standard 4 spacer Smart-Ped lock



Edge zone 2 spacer Smart-Ped lock



Stretcher bond 3 spacer
Smart-Ped lock



4 mm screwdriver



Shim



Corner piece



Smart-Ped lock with
spacers



Smart-Ped Rod with
two locking nuts



Smart-Ped base



Smart-Ped Slope
Correction

WHAT IF THE WORLD WERE TWICE AS BIG

It can be, as far as we're concerned. Our world, twice as big. A world that we are helping to design and construct perfectly with our roof slab systems. Our many years of experience have made us the number one expert in rooftop paving. For sustainable roofs, livable roofs for socialising. We interact with architects and contractors every day. With roofers and project developers. Creators and constructors. We listen to them, work with them and advise them. That's why we're the number one party with the best rooftop vision. It's our higher ground.

zoontjens.com