



BUZON Creating Perfectly Level Raised Floors



BUZON

Founded in 1987, Buzon Pedestal International is a highly successful provider of solutions in the field of rooftop gardens. As the developer of the award-winning Buzon screwjack pedestal system, the innovative company has opened up new design and structural possibilities in roof gardens around the world. With the ever-growing demand to make cities more relaxed and greener, architects are looking for solutions to create greener developments. Buildings are increasingly designed and equipped with spaces where people can meet, communicate and relax in a more natural environment, and one way to do that is to create more green spaces, often with raised floors or balconies, terraces, water features and fountains, on the rooftop. Such designs, however, not only make buildings more

complex, but also make them more prone to maintenance problems as green areas and water features require complex planning in the areas of structuring, waterproofing, maintenance, and accessibility.

Traditionally, services are laid either above the surface or, where the areas are utilised for pedestrian or vehicle traffic, beneath concrete, paving or other substrates. On a rooftop/terrace environment, neither option is ideal. When services are laid on the surface, they obstruct, making the area unusable and the burying of pipes, cables and ducts generally results in expense and disruption and when things go wrong the substrate has to be 'dug up'. The installation of a raised floor system overcomes all these issues. Raised floors

generally utilise pedestals supporting concrete, granite or ceramic pavers, or wooden tiles, timber decking and industrial gratings so services are easily accommodated underneath.

With the Buzon system, it is now possible to create even larger terrace areas without any design disrupting features such as valleys or ridges, gratings, drainage systems or access panels. When access is required for maintenance or repair, it is simply a matter of taking up a paver or two from the floor so work can be carried out below. The sections are then dropped back into place with minimal disruption. Similarly, any pavers that become dirty or damaged can easily be swapped out. Indeed, the whole surface can be changed if required. This feature significantly

reduces long term maintenance costs when access to trace and repair a leak in the waterproofing membrane is required as the membrane is more visible and tiles/pavers do not need to be removed mechanically, which would lead to damaging the membrane and potential not being able to find the source of the leak. The interchangeable spacer tabs allow for 2mm, 3mm, 4.5mm, 6mm, 8mm or 10mm gaps/joints between the pavers, providing positive drainage and making uneven paving lines a thing of the past. This additional benefit dispels the need for sealants between the tiles that tend to be prone to the buildup of dirt or algae, and an accompanying change in colour.

Now thanks to the open joints between the tiles (where the width can be freely specified by the designer), water can drain freely, without the possibility of water ponding on the floor finish. Due to the patented slope compensation device PH5, the pedestals can be placed on a sloping substrate of up to 5 percent (0-5cm/ metre), effectively eliminating the risk of puncturing the waterproofing membrane, while leaving the paving or decking material lying completely flat. Its better water drainage performance effectively

expands the lifespan of the waterproofing membrane considerably. Besides its ease of use and high-speed nature of application, the pedestals can be used on all types of substrates such as, bitumen waterproofing, liquid coatings, rubber membranes, polystyrene insulation.

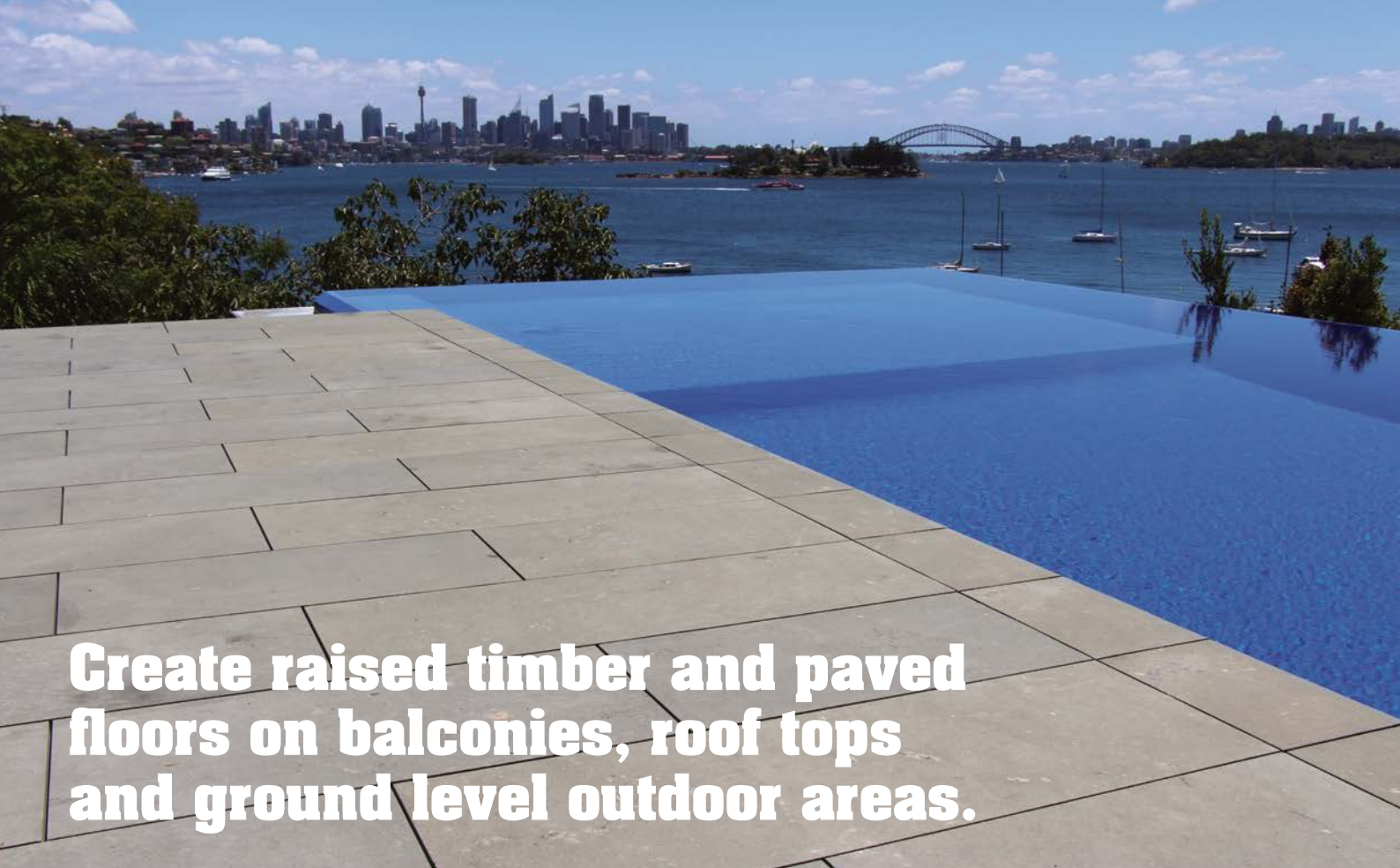
Buzon pedestals are made of a highly durable UV-resistant recycled polypropylene and are equipped with a unique safety locking feature to ensure the security and stability of the system. They are millimetrically adjustable in height 17mm to 1070mm. They are precision engineered from 4mm thick 80% recycled polypropylene and are capable of supporting loads of more than a 1000kg per pedestal. At roof level, this load is evenly distributed by the wide base area therefore eliminating the risk of waterproofing membrane damage. From a construction perspective, the use of raised access floors considerably lightens the structural load on the building by eliminating screeding and sand/cement beds for tiles and pavers.

Raised floor systems can be built directly over a waterproofing membrane without

adding significantly to the structural loading of the roof or the building. These advantages translate into higher values for properties as areas that would previously not have been available for use can be utilized, through the ability to create useable roof and balcony spaces. With this in mind, raised floor systems are being used on prestigious architectural projects to deliver outstanding functionality and cost performance, all over the world.

The Buzon DPH pedestal system is now being used in more than 35 countries worldwide. It has an excellent track record of international references that include: Epworth Hospital (Melbourne), Overseas Passenger Terminal (Sydney), Commonwealth Law Courts (Perth), Marina Bay Sands and the Supreme Court Building in Singapore, International Finance Centre (Hong Kong), Petronas Towers (Malaysia), Roppongi Hills and the National Museum in Tokyo (Japan), Yongsang station Seoul (South Korea), EU Commission building and the European Parliament building in Brussels, Bill Clinton Presidential Center, Arkansas and Wynn Hotel and Casino resort in Las Vegas (USA).





Create raised timber and paved floors on balconies, roof tops and ground level outdoor areas.



BENEFITS

- Use with stone, concrete, timber, composite decking
- Use over existing concrete, brick or paved areas
- Allows for drainage and ventilation
- Reduces noise and increases insulation
- Can achieve a perfectly level deck on an uneven surface
- Quick and easy installation
- Provides a sustainable solution
- Adjustable heights supporting up to 1000kg
- Easy access to waterproofing membrane for maintenance



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