Installation Requirements and Instructions for PowerBase PLAY

IMPORTANT
These instructions are not site specific and outline standard procedures for the installation of the Brock PowerBase PLAY system for an artificial turf surface. For site specific issues not explained in this document, please contact your Brock distributor.

A. General Information

Panels
Each PowerBase PLAY panel measures L 59.8" x W 40.6" x mm thickness
Net coverage of each panel is 16.88 sq. ft.
Each panel weighs 4 lbs.

Pallets
Each pallet weighs 128lbs
Each PowerBase PLAY pallet contains 23 panels = 388.37 sq. ft, net installed area
Trucks can load up to 40 pallets = 15,535 sq. ft.

Preparation
PowerBase PLAY panels are intended to be installed on a solid or compacted aggregate sub base covered with a permeable non woven geotextile. Prior to installation, the sub-base must be inspected and measured to assure that the entire surface has been graded to specification.

B. Equipment Requirements

Fitting:
6ft metal straight-edge
fine point ink marker
heavy-duty utility knives (cutters)

Clothing:
Soft-soled shoes and sunglasses for all labour

D. Offloading

A forklift is required to offload the PowerBase PLAY pallets from the delivery truck.

E. Pallet placement and storage

The PowerBase PLAY pallets should always be placed on a flat level surface. Pallets are not be stacked on top of one another. The PowerBase PLAY packaging is not meant to withstand long-term outdoor storage.

F. Installation Crew

PowerBase PLAY can be installed by one or more workers.
G. Panel fitting

PowerBase PLAY panels are installed together by overlapping the edges.

The overlapping edges are to be fit together against small offset ribs.

These offset ribs are designed for easy and precise placement, allowing for required spacing between each panel.

This space between panels compensates for thermal expansion during and following installation.

Along the short sides of the panels are pins and slots that interlock to ensure straight rows.

PowerBase PLAY installs from right to left. The middle triangular pins mark the center of the edge of the panel.

PowerBase PLAY panels are fit together end to end to form rows. Three pins fit into three corresponding slots to ensure straight rows.

Rows of panels are fit together by overlapping the edges along the long sides of the panels.

Note on Thermal Expansion

All materials are susceptible to dimensional changes through temperature change. Materials expand when temperature increases and contract when temperature decreases. The PowerBase PLAY system is designed to install with spacing between the panels to allow for thermal expansion. By allowing for thermal expansion between each panel, the installed surface will be stable through temperature change.

If the PowerBase PLAY and turf systems are being installed when ambient temperatures are cool or cold, (<°F), care should be taken to trim the PowerBase PLAY system into the perimeter curb in a way that a 5mm space is allowed between the edge panels and curb to allow for thermal expansion when temperatures increase.
Step 1: Install 1st panel  PowerBase PLAY panels are installed by beginning in the corner of the playground area. Cut off the outside overlapping edges on the long and short sides of the first panel as shown in Fig. 1. Place the 1st panel in the corner of the area to be installed.
Step 2: install 1st row  Cut off the outside overlapping edges of panels (2, 3 and 4) as illustrated in Fig. 2. Continue the first row by fitting the panels together end to end as shown below.
Step 3: Complete 1st row  Cut the last panel of the row into the playground edging as illustrated in Fig. 3. The cutoff piece of panel (7) will be used to begin the 2nd row of installation. (Fig. 4)
### Step 4: Install 2nd row

The cutoff piece of panel (7) will be used to begin the 2nd row of installation as illustrated in Fig. 4. The 2nd row of panels is placed by overlapping the long edges of the panels with the first row. Complete the row by cutting the final panel (13) into the curb. The cutoff piece from panel (13) will be used to begin the 3rd row of installation.
**Step 5: Install 3rd row** The cutoff piece of panel (13) will be used to begin the 3rd row of installation as illustrated in Fig. 5. The 3rd row of panels is placed by overlapping the long edges of the panels with the 2nd row.

Fig. 5
**Step 6: Complete installation**  Continue to install rows of panels as described in Steps 4 and 5. The cutoff piece of the final panel in each row is used to begin the following row. If the cutoff piece is less than 6" in length, discard as waste and begin the next row with a new panel. The final row of panels will be cut into the perimeter as illustrated in Fig. 6.
**Install turf and infill:** Fig. 7 illustrates a completed PowerBase PLAY installation. The surface is now ready for artificial turf and infill installation. Heavy equipment or machinery is not to be used for turf and infill installation.
Fitting PowerBase PLAY panels around playground equipment fixtures: Fig. A-D illustrates the procedure to fit panels around fixed posts or objects.