

Walkways

J Series

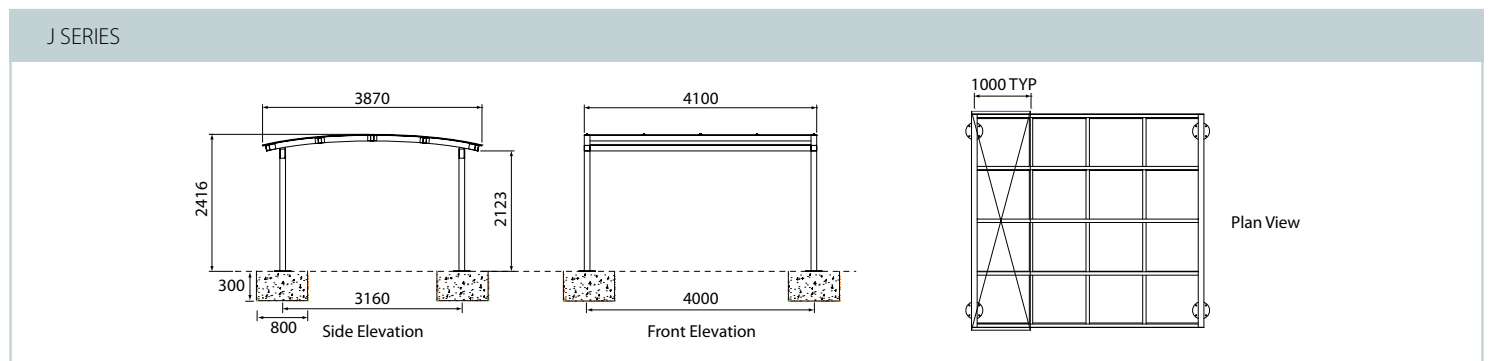


J Series Mono Pitch Walkway, Little Springs Nursery

J Series walkways use the versatile design of the J Series canopy to create covered walkways between buildings and within landscapes. Walkways can be enclosed using a number of different cladding options including PET, polycarbonate or toughened glass. A number of roofing styles are available including mono pitch, mono curve, apex and full curve. Various fixing options are available, please see the table below for details.

J Series walkways can be specified either as wall-fixed or with supporting posts. The supporting columns and roofing framework are constructed from structural grade mild steel.

Finish options include galvanised, galvanised and powder coated or zinc-rich primer with powder coating. Roof cladding option available is: PET. Side cladding can be from: PET, polycarbonate or toughened glass.



Product Description	Dimensions				Fixing			Finish			OPTIONS			Cladding		
	Height Lowest (mm)	Height Tallest (mm)	Length (mm)	Width (mm)	Surface	Base Plate	Roof	Galvanised	Galvanised & Powder Coated	Zinc-Rich Primer & PC	PET	Polycarbonate	Toughened Glass			
J Series	2123	2416	4100	3870	■	■		■	■	■	■	■	■			

Case Study

Hillside Station, Southport



Challenge

For the first time in 10 years the British Golf Open was to return to Southport's Royal Birkdale course. In light of this, Hillside station was to undergo some improvements ready for the flood of golf fans. The station was to feature as one of the main routes of transport for anyone attending the open.

Mouchel, the principal architect, contacted Marshalls to discuss the replacement of two wooden walkways which provided shelter for passengers whilst they were moving from the platforms to the exits. Marshalls Urban Structures is a Link-up approved supplier and a specialist in the design, manufacture and installation of canopies, shelters and walkways.

Working closely with Mouchel, Marshalls started to work up some initial concepts. The main issue was ensuring the structure fitted correctly to the existing brickwork. As the brickwork was particularly old, estimated to have been built in Victorian times, precautions had to be taken to ensure that once the structure was fitted in place, the walls would not collapse or crack. To do this, Marshalls contacted Hilti, fastening and demolition specialists, who carried out tests on the walls to ensure they were strong enough to take the weight of the structures using their fixings.

The existing wooden structures had opaque roofs which meant that rail users at the top of the stairways could not see out onto the platforms easily. Taking this into consideration, Marshalls Urban Structures designed the two structures with all round visibility using transparent roof and side cladding. Once all items had been considered, the technical team produced various designs which were then sent to the client and architect for approval. After some discussion it was decided that the best product to use for this project would be the J Series walkway due to the flexibility of its design.

As the station was to remain open during the refurbishment, demolition of the existing structures needed to be done extremely efficiently to ensure minimum disruption to rail users during normal working hours. In order to do this, Marshalls Urban Structures worked closely with staff at Hillside to minimise any problems on site.

Solution

The two walkways which were installed feature an adapted J Series design which allowed them to be mounted onto the existing brickwork. Both structures were designed with a flat roof and a bespoke glazing system which would enclose the walkway and provide all round visibility and shelter. The side glazing system was also designed so the panels could be replaced from the inside, meaning no special equipment will be required for future maintenance. To the front of each walkway is an apex panel which was added as an aesthetic feature to hide the drainage system.

The framework of each structure is manufactured from structural grade steel and is coated using Akzo Nobel, Interpon AP 120 zinc-rich primer to protect it against rust and corrosion. The structures are also finished with Akzo Nobel Interpon 610 polyester powder coating in Sunflower Yellow (BS 10 E 53) and Dark Grey (BS 18 B 25). This paint finish is also supplied with a three year warranty. The fixings used are all manufactured from stainless steel to ensure maximum lifespan of the structure.

Benefits

The two structures have assisted in modernising Hillside Station, and provide adequate shelter for passengers when travelling to and from the platforms. Mersey Rail estimated that over 75,000 people were transported to the British Golf Open via Hillside station.