

BRIDGES ♦ BOARDWALKS ♦ JETTIES



Total support from concept to installation
Designs and options to blend in with the environment
Constructed with natural hardwood

SHS has the expertise to design, manufacture, supply and install an aesthetically pleasing structure to compliment its natural surroundings.

DESIGN & ENGINEERING

Our engineers advise clients on the most effective design solutions to suit the requirements, taking into account aesthetic, environmental and cost considerations. Designs are generated using the latest 3D CAD programme & structural calculations are in accordance with Eurocode standards.

SAFETY

SHS offers a range of attractive parapet designs to suit individual tastes and appropriate standard requirements. We also welcome the opportunity to quote and supply custom design requirements. Walking surfaces are usually formed from timber deck boards, which have a grooved slip resistant finish. Slip resistance can be enhanced by introducing anti-slip resin bonded aggregate GL Inserts into the surface of the deck board. These are extremely effective and also they allow the natural appearance of the timber deck to be maintained.



TYPE BOARDWALKS & JETTIES

Boardwalks for urban, rural and jetties for marine environments
Constructed in hardwood or a composite of hardwood and steel
Designed to our standard details and according to the requirements of Eurocode

OPTIONS INCLUDE

Choice of parapets
Grooved slip resistant decking with optional anti-slip resin bonded aggregate inserts or surface coating
Design can incorporate other architectural materials to influence the aesthetic appearance

THE BENEFITS OF HARDWOOD

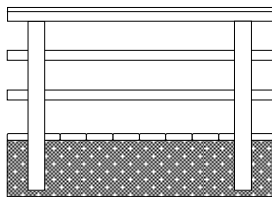
No preservative treatment required
Minimal maintenance
Excellent vandal resistance & fire retardant characteristics

Parapets

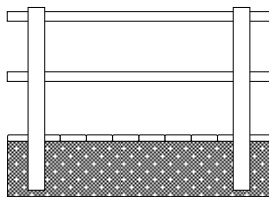
STYLES & OPTIONS

The parapet plays an important part in the aesthetic value of the bridge. Depending on the situation and purpose, a choice is made for either horizontal or vertical parapets. SHS offers a range of standard hardwood parapets and also welcomes the opportunity to quote for the design and supply of bespoke parapets in both hardwood and metal.

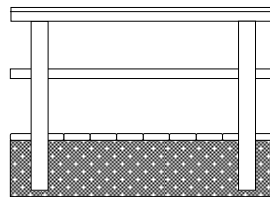
SHS STANDARD HARDWOOD PARAPETS



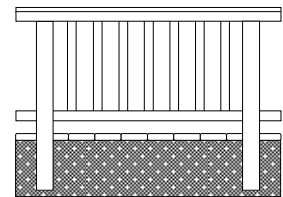
Type A parapet
Handrail + 2 intermediate rails



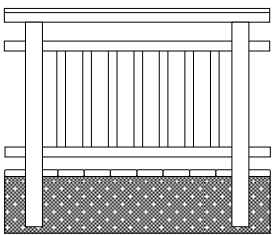
Type B parapet
2 x intermediate rails



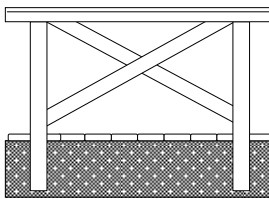
Type C parapet
Handrail + 1 intermediate rail



Type E parapet
Handrail + vertical infill rails



Type EE parapet
Elevated handrail + vertical infill rails



Type G parapet
Handrail + cross rails

TYPICAL HARDWOOD SECTION SIZES

- Posts 95 x 95 mm
- Hand rail 95 x 145 mm
- Intermediate rails 40 x 115 mm
- Vertical infill rails 40 x 40 mm

TYPICAL PARAPET HEIGHTS

- Pedestrian 1.15 m
- Cycleway 1.40 m
- Equestrian 1.80 m

Anti-slip decking

ANTI-SLIP OPTIONS

Walking surfaces are usually formed from timber decking, which has a grooved slip resistant finish. This resistance can be enhanced by introducing either our factory fitted anti-slip GL Insert or our factory applied anti-slip GL Coating, to the deck surface.

Anti-slip GL options are constructed from particles of aggregates embedded within a modified resin compound. When the compound is cured the resultant finish is a very hard wearing surface with high slip resistant characteristics, suitable for timber decks used in a multitude of locations.

Whichever option you choose, be it the GL Inserts or the GL Coating the resultant finish is an effective, hard wearing surface that compliments the aesthetic appearance of the timber and is the ideal solution for anti-slip safety on an SHS bridge, boardwalk or jetty.

TYPICAL DECK FIXING

40 mm thick decking

- 8 mm Ø x 90 mm long screws
- 8 mm Ø x 90 mm long dowels

28 mm thick decking

- 5 mm Ø x 60 mm long screws

