WALCON

# SYSTEM 21

## THE ORIGINAL WALCON PONTOON DESIGN NOW IN USE FOR NEARLY THIRTY YEARS

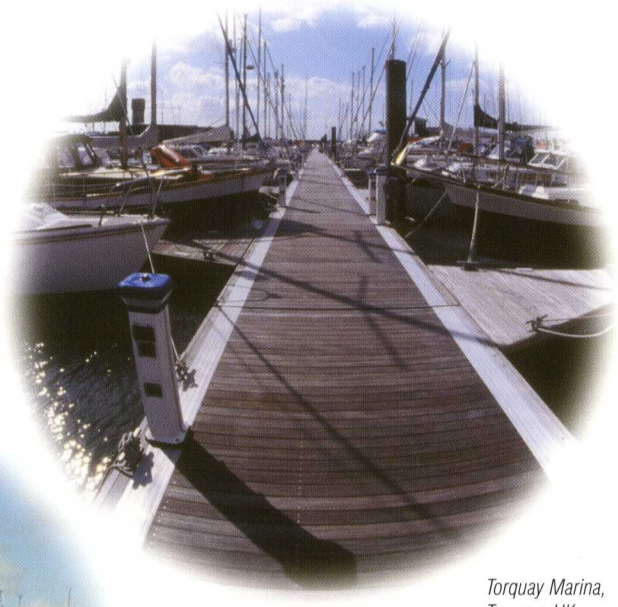
This popular design of pontoon using a galvanised steel frame with a hardwood deck and supported on fibre concrete floats is still widely used, although many details have been improved over the years.

The design has the following features:

- All-welded mild steel structure with a heavy duty 180×75 channel on all walkways.
- The structure is hot-dip galvanised in one piece to B.S. 729.
- Proven record of Walcon fibre concrete protected expanded polystyrene floats.
- A modular pontoon system suitable for most layouts.
- Fingers adjustable in position at 500mm centres.
- Hardwood deck and fenders.
- Full provision for the increasingly complex service requirements of modern marinas.
- Various freeboards and live loadings available.

### DURABILITY

System 21 is one of the strongest pontoon designs for marinas. It has withstood for many years the severe test of forming the temporary marina at Southampton International Boat Show. The combination of welded frame units and flexible connections give a durable design. Where galvanising is not considered adequate, such as in more corrosive environments than the United Kingdom, an additional or alternative paint treatment can be specified.



*Torquay Marina, Torquay, UK*



*Dun Laoghaire Marina Ireland*

### SERVICES

Services have often been an afterthought in marina construction but easy access to cables and connections during installation and subsequently for maintenance saves money. System 21 walkways may be fitted with continuous ducts along both sides of walkways which give direct access to services and connections without the need to remove decking.



*Glenarm Marina,*
*Co Antrim,*
*Northern Ireland*





## STANDARD RANGE

The standard range of interconnecting units comprises:

### WALKWAY UNITS (WW)

Walkway units may be used for the main concourse of a marina and for many other pontoon applications. Standard lengths are 11.46m and 7.46m; widths 2.56m, 1.93m and 1.65m

### FINGER UNITS (SF)

Cantilever finger units are used in conjunction With walkways giving individual berths. Fingers Are supplied in lengths of 4.5m, 6.0m, 7.5m, 9.0m and 10.5m. Units are made in a splay design with a minimum width of 750mm. The structure of fingers is designed at a minimum length of 75% of the length of the boat. Longer units are available but will be parallel sided and supported by an end pile.

### ECONOMY FINGERS (EF)

Lightweight mooring arms with limited access Are designed as an economic alternative to 4.5m And 6.0m fingers.



## TECHNICAL PLANS

WALKWAY PONTOONS

| | | |
|---|---|---|
| WW1 |  | 11.46x2.64M |
| WW2 |  | 7.46x2.64M |
| WW3 |  | 11.46x2.03M |
| WW4 |  | 7.46x2.03M |
| WW5 |  | 11.46x1.73M |
| WW6 |  | 7.46x1.73M |

FINGERS

| | | |
|---|---|---|
| SF4.5 |  | 4.5x0.70M |
| SF6.0 |  | 6.0x0.70M |
| SF7.5 |  | 7.5x0.70M |
| SF9.0 |  | 9.0x0.1.01M |
| SF10.5 |  | 10.5x1.01M |
| SF12.0P |  | 12.0x1.44mEPG |
| SF13.5P |  | 13.5x1.44mEPG |

## TECHNICAL SPECIFICATION

### LOADING

1kN/m$^2$-2.5kN/m$^2$.

### FREEBOARD

500mm nominal unloaded freeboard with 300mm draft, other options available.

### STRUCTURE

All-welded mild steel frame of standard channel sections, cross-braced with rolled steel angles. All hot-dip galvanised to B.S. 729 after fabrication.

### DECKING

Ex 150×25 hardwood boards, planed, grooved to give antislip surface and screwed to fenders and spines using grade A4 stainless steel screws.

### FLOATS

Standard Walcon floats constructed of fibre concrete protected expanded polystyrene.

### CONNECTIONS

The proven flexible couplings comprise compressed rubber blocks with hot dipped spun galvanised through bolts, castle nuts and split pins. This ensures security and prevents vertical and lateral misalignment but allows vertical angular movement of the adjacent units. No noise is generated by the connections.

### CLIMATIC CONDITIONS

Maximum wave height 400mm.

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Due to our policy of continuous product development we reserve the right to change specifications without prior notice.