



PONTOON	WALKWAY LENGTH (m)	WALKWAY WIDTH (m)	FINGER LENGTH	FINGER WIDTH	HEAD LENGTH (m)	HEAD WIDTH (m)
LEG A	39.086	3	3 x 8m 2 x 12m	3 x 1m 2 x 1.2m	24.1	2.4
LEG B	115.752	2.4	9 x 10m 8 x 12m	1.2m	24	2
LEG C	115.752	2.4	9 x 10m 8 x 12m	1.2m	24	2
LEG D	120.5	5.2	-	-	-	-
LEG E	147.65	-	7m	1m	-	-
LEG F	38.667	2.4	8m	1m	20	2
MAIN WALKWAY	180.85	2.4	10 x 7m 5 x 10m	10 x 1m 5 x 1.2m	-	-
FUELLING JETTY	31.996	3	-	-	2	2

PROPOSED CENTRAL MARINA DEVELOPMENT (REFER TO TABLE 2)

PONTOON MANUFACTURER TO PROPOSE BRIDGING DETAIL BETWEEN 500mm AND 750mm PONTOON FREEBOARDS

- NOTES CONTD:**
- FREEBOARD REQUIREMENTS AT LEGS AND THEIR ASSOCIATED FINGERS ARE AS FOLLOWS:
LEGS A, B, C, E, F: 500mm
BRIDGE LANDING PONTOON: 500mm
FUELLING JETTY: 500mm
LEG D: 750mm
 - RUBBER FENDERING TO BE PROVIDED ACROSS LEGS A, B, C, E, F, AND FUELLING JETTY.
 - RUBBER FENDERING TO BE PROVIDED AT LEG D.
 - PILE EMBEDMENT DEPTH BELOW DREDGE LEVEL ASSUMED TO BE 1.75 TIMES ITS FREE-STANDING LENGTH. REFER TO DRAWING 161378-FRH-01-01-DG-C-000100 FOR PROPOSED PILE EMBEDMENT DEPTHS.
 - MOORING CLEATS SHOULD BE PROVIDED AT FINGERS, MINIMUM REQUIREMENTS AS BELOW:
UP TO 7.5m FINGERS: 2 CLEATS PER SIDE.
8-12m FINGERS: 3 CLEATS PER SIDE.
12m+ FINGERS: 4 CLEATS PER SIDE.
 - ON HAMMERHEADS, EACH FINGER IS TO BE CONSIDERED AS A BERTH WITH A MINIMUM OF 4 CLEATS PER SIDE.
 - MOORING CLEATS TO BE PROVIDED IN THE CENTRE OF EACH BERTHING BAY ON WALKWAYS.
 - 10T MOORING BOLLARDS TO BE PROVIDED AT 5m C/C ON THE INNER AND OUTER FACES OF LEG D.
 - SAFETY LADDERS, SOS POINTS, EMERGENCY CABINETS, LIFE BUOYS, AND LIGHTING TO BE PROVIDED IN ACCORDANCE WITH CODE OF PRACTICE FOR THE DESIGN AND CONSTRUCTION OF MARINAS AND YACHT HARBOURS 7TH EDITION OR SUCH EDITION AS REIGNING AT THE TIME OF TENDER.
 - REQUIREMENTS FOR NEW OR RELOCATED NAVIGATION BEACONS TO BE CONFIRMED BY THE CLIENT AND HARBOUR MASTER.
- KEY**
- PILE TYPE A (7 No.)
 - PILE TYPE B (40 No.)

TABLE 1:

EXISTING	LENGTHS (m)	TOTAL NUMBER	
WEST PIER MARINA	UP TO 9.5	9	TOTAL = 26
	UP TO 11	15	
	UP TO 12	2	

TABLE 2:

PROPOSED	LENGTHS (m)	TOTAL NUMBER	
CENTRAL MARINA	UP TO 10	5	TOTAL = 176
	9	55	
	10	9	
	12	53	
	14	45	
	UP TO 20	5	
20+	4		

WEST PIER MARINA

28.7 (FUEL BERTH)	1	TOTAL = 19
UP TO 10	18	

DO NOT SCALE FROM THIS DRAWING

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazard/risks normally associated with the types of work detailed on this drawing, note the following risks and information.

CONSTRUCTION

TIDAL WORKING
WORKING OVER WATER
TEMPORARY INSTABILITY DURING INSTALLATION

MAINTENANCE AND INSPECTION

DEMOLITION

For information relating to use, cleaning and maintenance refer to the Health and Safety file.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

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NOTES

- DIMENSIONS ARE NOT TO BE SCALED FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH SPECIFICATION DOCUMENT 161378-FRH-01-01-SP-C-000001.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH KEY ELEMENTS DESIGN BASIS 161378-FRH-ZZ-ZZ-SP-C-000001.
- FOR DIMENSIONS OF PONTOON ELEMENTS AT EACH LEG REFER TO DRAWINGS: 161378-FRH-01-01-DG-C-000002 TO 000009.
- REFER TO DRAWING 161378-FRH-01-01-DG-C-000100 FOR PILE SCHEDULE INFORMATION.
- PONTOONS SHOULD BE DESIGNED TO WITHSTAND ENVIRONMENTAL LOADING IN ACCORDANCE WITH BS 6349.
- THE WAVE LOADS ASSUMED TO BE ACTING ON THE PONTOONS SHOULD BE DETERMINED BASED ON THE SIGNIFICANT WAVE HEIGHT (HS), THE WAVE PERIOD (TP) AND THE WAVE SPECTRAL FORMS AS SUMMARISED WITHIN THE RPS WAVE STUDY RECEIVED 28/03/2025. REFER TO 161378-FRH-01-00-RP-W-000001.
- IMPOSED LIVE LOAD REQUIREMENTS ARE AS FOLLOWS:
LEGS A, B, C, E, F: 4kPa
FUELLING JETTY: 5kPa
LEG D: 5kPa
FINGERS: 3kPa

P03	04/07/25	Third Issue	CK	LS	SRB
P02	22/05/25	Second Issue	CK	SRB	JC
P01	14/04/25	First Issue	CK	SRB	JC
Rev	Date	Description	Drawn	Chkd	Appd

Suitable for Review and Comment

Dumfries & Galloway COUNCIL

Balfour Beatty FAIRHURST

SCAPE SCOTLAND CIVIL ENGINEERING

Stranraer Marina Expansion

Pontoon General Arrangement

Drawn	Date	Designed	Date
CK	14/04/25	LS / ML	14/04/25
Checked	Date	Approved	Date
SRB / AH	14/04/25	JC	14/04/25
Size	Scale	Fairhurst Ref	
A1	1:500		
Drawing Number	Status	Revision	
161378-FRH-01-01-DG-C-000001	S3	P03	