

KAIDEKKE PLAN, 1:200

GENERAL NOTES:

STEEL MATERIALS:

STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING QUALITIES:
PRIMARY STRUCTURES EN 10025-2 S355J2 t < 30
EN 10025-2 S355N 30< t < 40

STEEL FOR PRIMARY STRUCTURES TO BE DELIVERED WITH INSPECTION CERTIFICATE 3.1 IN ACCORDANCE WITH SS EN 10204
PLATES TO BE BENT SHALL BE SUITABLE FOR COLD FORMING IN ACCORDANCE WITH OPTION 11 EN 10025-2

HOLLOW PROFILES SHALL BE WELDED AIRTIGHT.

EXECUTION:

CONSEQUENCE CLASS IS CC2

EXCEUTION CLASS IS EXC2 IN ACCORDANCE WITH EN 1090-2

REQUIREMENTS FOR IMPROVED THOUGH THICKNESS PROPERTIES ARE SHOWN ON THE DRAWINGS.
THE PLATE DESIGNATION IS THEN AMENDED "Z" OR "ZX" WHERE X IS THE QUALITY CLASS IN ACCORDANCE WITH EN 10164.
WHERE IMPROVED THROUGH THICKNESS PROPERTIES ARE INDICATED, THE REQUIRED QUALITY CLASS IS Z25.
STEEL SHALL BE IDENTIFIED BY MARKING, STEEL HARD STAMPING SHALL NOT BE PERMITTED (OPTION 10 IN EN 10025-1)
STEEL WORKMANSHIP SHALL BE IN ACCORDANCE WITH EN 1993-1 AND EN 1090-2.

WELDED CONNECTIONS:

WELDING SYMBOLS ARE IN ACCORDANCE WITH EN 22553
DIMENSION OF FILLET WELDS ARE GIVEN AS EFFECTIVE THROAT THICKNESS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
WELDS NOT SPECIFIED ON THE DRAWINGS SHALL BE FULL PENETRATION WELDS
WHEN SIZES OF FILLET WELDS ARE NOT INDICATED THE FOLLOWING TABLE SHALL BE USED:

THICKNESS OF PLATE (THICKER PART) (MM)	MINIMUM FILLET WELD THROAT SIZE (MM)
T < 15	4

15< t ≤ 25	6
25< t ≤ 35	6

BOLTED CONNECTIONS:

BOLTS SHALL BE MADE OUT OF STAINLESS STEEL TYPE EN 1.4529.

WASHERS SHALL BE PLACED UNDER BOLTS AND NUTS. THE SIZE OF THE WASHERS MIGHT BE INCREASED IF A COATING SYSTEM IS APPLIED TO THE BOLTED ITEM IN ORDER TO AVOID ANY DAMAGES TO THE COATING SYSTEM.

HOLES FOR BOLTED CONNETIONS SHALL BE MADE IN A SIZE TO ALLOW CORROSION PROTECTION BY THE COATING SYSTEM ON THE CUT SURFACES OF THE BOLT HOLES.

DIFFERENT MATERIALS SHALL BE ELECTRCALLY INSULATED FROM EACH IN ORDER TO AVOID GALVANIC CORROSION.

BEARING BUSHES MADE OF PTFE SHALL BE INSTALLED IN THE HOLES WHERE STAINLESS STEEL CLEVIS PINS ARE INSTALLED. THE THICKNESS OF THE COATING INSIDE THE HOLES SHALL BE RESPECTED WHEN PURCHASING THE BEARING BUSHES.

ALL BOLTS TO BE PRETENSIONED TO 70 % OF THE ULTIMATE TENSILE STRENGTH

UHMW-PE COVER PLATE:

COVER PLATE MINIMUM THICKNESS 60MM
INSTALLATION AND FIXATION TO STEEL BACKBORD AND CONCRETE QUAY ACCORDING TO SUPPLIERS SPECIFICATION.

SURFACE PROTECTION:

THE FENDER CONSTRUCTION SHALL BE COATED WITH AN APPROVED NORSOK M-501 COATING SYSTEM 7A WITH A TOTAL DRY FILM THICKNESS (DFT) OF MIN. 700 µm AND BE BASED ON GLASS-FLAKE REINFORCED EPOXY OR POLYESTER. THE EXPECTED LIFETIME ACCORDING TO DNVGL-RP-0416 IS ASSUMED TO BE UP TO 20 YEARS IN THE SPLASH ZONE FOR THIS COATING SYSTEM. NORSOK M-501 SHALL BE FOLLOWED WITH REGARDS TO SURFACE PREPARATION AND COATING APPLICATION.

FOR THE REMAINING 5 YEARS A CORROSION ALLOWANCE (CA) OF 1.5 MM ACCORDING TO DNVGL-RP-0416 HAS BEEN CALCULATED AND APPLIED:

[CA = V_{CORR} * (T_D – T_C) = 0.3 MM / YEAR * (25 YEARS – 20 YEARS) = 1.5 MM]

CONCRETE GROUT:

CONCRETE GROUT AS "SIKAGROUT 212" OR SIMILAR


Anbud	Tegning nr.	122831-01	Rev.
	Status		

NOTES:

Dimensions: Dimensions are in millimeters if nothing else is indicated
Levels are in meters if nothing else is indicated
Angles are in degrees if nothing else is indicated
All dimensions are based on drawings of the existing structure

REFERENCES:

122831-02	Plan and sections, type 1
122831-03	Plan and sections, type 2
122831-04	Details I
122831-05	Details II
122831-06	Details III
122831-07	Backboard, type 1
122831-08	Backboard, type 2
122831-09	Backboard details

Rev.	Dato	Revideringen gjelder				Nr.	Saksb.	Sidem.k.	Oppdr.a.
Tromsø havn						Tegnet av ITH	Saksbehandler JAMO		
Grøtsund ubåtfender Overview						Sidemannskontnr. CRØE	Oppdragsansvarlig HHP		
						Fag S	Målestokk A1 See draw.		
						Dato 17.09.2019			
						Oppdragsnr. A122831	Status		
						Tegning nr.	122831-01		