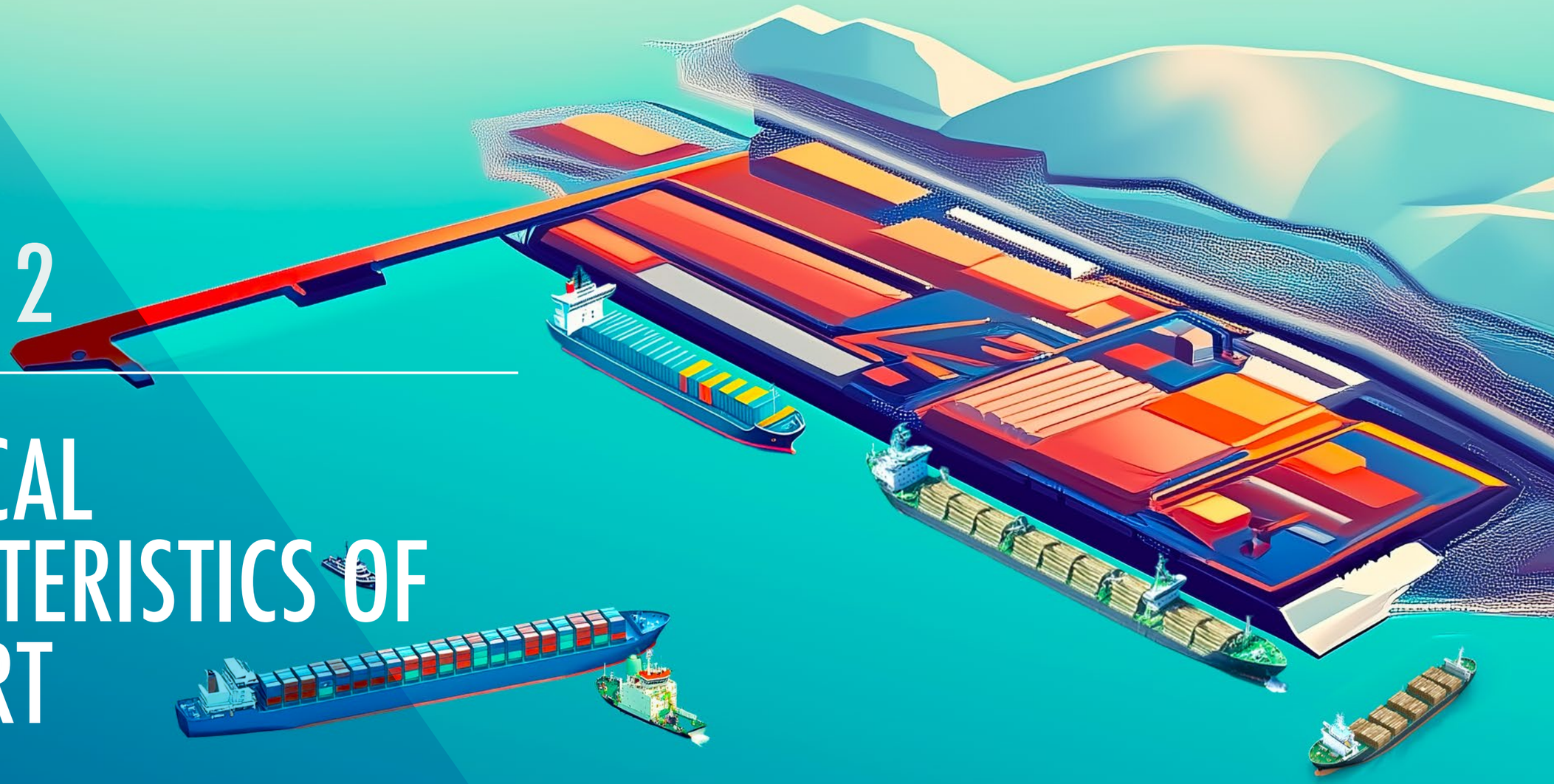
Chapter 2

TECHNICAL CHARACTERISTICS OF THE PORT



Ferrol Port

Ferrol - San Cibrao Port Authority

2.1.
GENERAL CONDITIONS PORT OF FERROL

2.1.1. SITUATION

	Inner Harbour	Outer Harbour
LENGTH	8º 14' 54'' W	8º 19' 32'' W
LATITUDE	43º 28' 34'' N	43º 27' 46'' N

Updated data as at 31/12/2024

2.1.2. WIND REGIME

	Port of Ferrol
REIGNING	JAN
DOMINANT	S

Updated data as at 31/12/2024

2.1.3. TEMPORARY REGIME

	Port of Ferrol
MAXIMUM SIGNIFICANT WAVE HEIGHT (HS MAX)	5.45
PEAK PERIOD (TP) ASSOCIATED WITH HS MAX	16,1
AVERAGE SOURCE ADDRESS ASSOCIATED WITH HS MAX	275

Data obtained from the SIMAR Network Point 211055023. Year: 2024

2.1.4. SEA LEVEL AND TIDES

	Inner Harbour	Outer Harbour
HIGHEST TIDAL RANGE RECORDED FOR THE YEAR	4.37	4.37
MINIMUM LOW TIDE RECORDED IN THE YEAR WITH RESPECT TO THE PORT ZERO	0.10	0.10
MAXIMUM HIGH TIDE RECORDED DURING THE YEAR WITH RESPECT TO THE PORT ZERO	4.47	4.47

Updated data as at 31/12/2024

2.1.5 INPUT

2.1.5.1. INPUT CHANNEL

	Inner harbour
ORIENTATION	SW
WIDTH	160m
LENGTH	2994m
DRAFT IN B.M.V.E.	11,30m
NATURE OF THE FUND	Sand, gravel and rock

Updated data as at 31/12/2024

2.1.5.2. INLET

	Inner Harbour	Outer Harbour
ORIENTATION	SW	SW
WIDTH	546m	546m
DRAFT IN B.M.V.E.	20m	20m
MAXIMUM CONTROLLED CURRENT	-	-

Updated data as at 31/12/2024

2.1.5.3. USE OF INCOMING AND OUTGOING TUGBOATS

ESLORA	NO. OF TUGBOATS
<100 M	0 (1)
100-130 M	0-1
130-165 M	1-2
165-250 M	2-3
>250 M (2)	2-4

For the latest generation of vessels, in specific cases, the harbour master's office may authorise the use of fewer tugboats.

(1) Except dangerous goods.
(2) And gas carriers of any length.

Updated data as at 31/12/2024

2.1.
GENERAL CONDITIONS PORT OF SAN CIBRAO

2.1.1. SITUATION

LENGTH	7º 27' 42'' W
LATITUDE	43º 42' 29' 'N

Updated data as at 31/12/2024

2.1.2. WIND REGIME

REIGNING	E
DOMINANT	WSW

Updated data as at 31/12/2024

2.1.3. TEMPORARY REGIME

MAXIMUM SIGNIFICANT WAVE HEIGHT (HS MAX)	4.78
PEAK PERIOD (TP) ASSOCIATED WITH HS MAX	13,3
MEAN DIRECTION OF ORIGIN OF WAVES (DIR) ASSOCIATED WITH HS MAX	2

Data obtained from SIMAR Network Point 3050041. Year: 2024

2.1.4. SEA LEVEL AND TIDES

MAXIMUM SIGNIFICANT WAVE HEIGHT (HS MAX)	4.65
MINIMUM LOW TIDE RECORDED IN THE YEAR WITH RESPECT TO THE PORT ZERO	0.02
MAXIMUM HIGH TIDE RECORDED DURING THE YEAR WITH RESPECT TO THE PORT ZERO	4.67

Updated data as at 31/12/2024

2.1.5 INPUT

2.1.5.1. INPUT CHANNEL

	NORTHEAST CHANNEL	EAST CHANNEL
ORIENTATION	NE	E
WIDTH	546m	191m
LENGTH	2.160m	2.160m
DRAFT IN B.M.V.E.	16,7m	17,9m
NATURE OF THE FUND	sand	sand

Updated data as at 31/12/2024

2.1.5.2. INLET

ORIENTATION	E
WIDTH	305m
DRAFT IN B.M.V.E.	20m
MAXIMUM CONTROLLED CURRENT	-

Updated data as at 31/12/2024

2.1.5.3. USE OF INCOMING AND OUTGOING TUGBOATS

ESLORA	NO. OF TUGBOATS
<100 M	0 (*)
100-165 M	2
>165 M	3

(*) Except for dangerous goods.

Updated data as at 31/12/2024

2.1.5.4. LARGEST SHIP ENTERED IN THE LAST YEAR - PORT OF FERROL

Features	LARGEST LENGTH		GREATER DRAFT	
	Zone 1	Zone 2	Zone 1	Zone 2
NAME	LNG YAKOV GAKKEL	COOL EXPLORER	LNG YAKOV GAKKEL	RED SUN
NATIONALITY	GREAT BAHAMAS	MALTA	GREAT BAHAMAS	LIBERIA
G.T.	128,969	102,097	128,969	59,177
T.P.M.	-	-	-	-
LENGTH	299	280.57	299	243
FRETWORK	11.95	11	11.95	15.64
TYPE	LIQUID BULK CARRIERS	BREAKBULK CARGO	LIQUID BULK CARRIERS	LIQUID BULK CARRIERS
DRAFT AT ENTRY OR EXIT	11.95	11.00	11.95	11,8

Updated data as at 31/12/2024

2.1.5.4. LARGEST VESSEL ENTERED IN THE LAST YEAR - PORT OF SAN CIBRAO

Features	LARGEST LENGTH		GREATER DRAFT	
	Zone 1	Zone 2	Zone 1	Zone 2
NAME	DUCHESS EMERALD	VIKINGBANK	DUCHESS EMERALD	VIKINGBANK
NATIONALITY	SINGAPORE	HOLLAND	SINGAPORE	HOLLAND
G.T.	43,821	7,367	43,821	7,367
T.P.M.	-	-	-	-
LENGTH	229	142,6	229	142,6
FRETWORK	14.55	7,7	14.55	7,7
TYPE	SOLID BULK CARRIERS	BREAKBULK CARGO	SOLID BULK CARRIERS	BREAKBULK CARGO
DRAFT AT ENTRY OR EXIT	12.00	7.00	12.00	7.00

Updated data as at 31/12/2024

2.1.6. FLOATING SURFACE

2.1.6.1. ZONE I

Situation	Outer harbour (Ha)	Dock basins			Total (Ha)
		Commercial (Ha)	Fisheries (Ha)	Rest (Ha)	
PORT OF FERROL	-	126.72	-	1,856.45	1,983.17
PORT OF SAN CIBRAO	-	181.33	-	-	181.33
TOTAL ZONE I	-	308.05	-	1,856.45	2,164.50

Updated data as at 31/12/2024

2.1.6.2. ZONE II

Situation	Access (Ha)	Anchorage (Ha)	Rest (Ha)	Total (Ha)
PORT OF FERROL	290.54	1,699.29	466.79	2,456.62
PORT OF SAN CIBRAO	-	-	-	-
TOTAL ZONE II	290.54	1,699.29	466.79	2,456.62

Updated data as at 31/12/2024

2.2.
FACILITIES AT THE SERVICE OF MARITIME TRADE

2.2.1. QUAYS AND BERTHS

2.2.1.1. CLASSIFICATION BY DOCK BASIN

Name	Length (m)	Draft (m)	Width (m)	Jobs
FERROL - OUTER HARBOUR				
FROM THE SERVICE				
Commercial basins				
HAMMERHEAD PIER OF THE VIRGEN DE CHAMORRO DAM	107.00	15.00	11.15	Port services
CONCEPCIÓN ARENAL QUAY	173.00	20.00	60	Containers
CONCEPCIÓN ARENAL QUAY	414.00	20.00	27 - 60	Bulk solids
CONCEPCIÓN ARENAL QUAY	922.00	20.00	60	Multi-purpose
JOSÉ CANALEJAS QUAY	148.00	10 - 17,5	60	Multi-purpose
TOTAL SERVICE	1,764.00			
FROM INDIVIDUALS				
Commercial basins				
LIQUID BULK	384.00	16.00	27	Liquid Bulk
TOTAL NUMBER OF INDIVIDUALS	384.00			
TOTAL FERROL-OUTER PORT	2,148.00			

Name	Length (m)	Draft (m)	Width (m)	Jobs
FERROL - INNER HARBOUR				
FROM THE SERVICE				
Commercial basins				
HEAD OF THE BREAKWATER	47.00	6.50	12,5	Port services
NORTH ENCLOSURE	253.00	10.00	40	Multi-purpose
OUTER SPUR BREAKWATER	244.00	9.00	77.65	Multi-purpose
INNER BREAKWATER	106.00	6.50	4	Multi-purpose
FERNÁNDEZ LADREDA	811.00	6 - 12.50	20 -40	Multi-purpose
NEW QUAY	271.00	14.00	23,5	Multi-purpose
NEW AUXILIARY QUAY	68.00	14.00	10	Multi-purpose
RO-RO RAMP NORTH ENCLOSURE	216.00	10.00	20,4	Ro-Ro traffic
RO-RO RAMP OUTER SPUR BREAKWATER	229.00	9.00	15	Ro-Ro traffic
TOTAL	2,245.00			
Marina basins				
A GRAÑA QUAY	70.00	<4	2	Recreational-Sports
CURUXEIRAS DOCK BASIN QUAY	547.00	<6	2	Recreational-Sports
SAN FELIPE QUAY	45.00	<4	3	Recreational-Sports
MODULAR FLOATING PIERS A GRAÑA	895.00	<4	6 - 12	Recreational-Sports
CARANZA MODULAR FLOATING PIERS	418.00	<4	6 - 8	Recreational-Sports
CURUXEIRAS MODULAR FLOATING PIERS	1,014.00	<6	6 - 12	Recreational-Sports
TOTAL	2,989.00			
Fishing basins				
CURUXEIRAS DOCK BASIN QUAY	197.00	<6	2	Fishing
MODULAR FLOATING PIERS A GÁNDARA	100.00	<4	2	Fishing
CURUXEIRAS MODULAR FLOATING PIERS	536.00	<6	6	Fishing
TOTAL	833.00			
Other dock basins				
CURUXEIRAS DOCK BASIN QUAY	27.00	<6	2.00	Port Services
CURUXEIRAS DOCK BASIN QUAY	80.00	<8	2.00	Multi-purpose
CURUXEIRAS DOCK BASIN QUAY	96.00	2.50	2.00	Multi-purpose
CURUXEIRAS MODULAR FLOATING PIERS	62.00	<8	6 - 12	Port Services
TOTAL	265.00			
TOTAL SERVICE	6,332.00			

Name	Length (m)	Draft (m)	Width (m)	Jobs
FROM INDIVIDUALS				
Commercial basins				
ATLANTIC FOREST	542.00	14.00	50	Liquid bulk
NAVANTIA FENE	2,522.00	3-11.20	-	Repairs and armaments
NAVANTIA FERROL	1,984.00	6-12,0	-	Repairs and armaments
REGANOSA	433.00	14.00	50	Liquid bulk
TOTAL INDIVIDUALS	5,481.00			
TOTAL FERROL - INNER PORT	11,813.00			
TOTAL PORT OF FERROL	13,961.00			
SAN CIBRAO PORT				
FROM INDIVIDUALS				
Commercial basins				
AUXILIARY QUAY	206.00	7.00	30.00	Multi-purpose
MAIN QUAY	338.00	14.00	35.00	Multi-purpose
PORT MORÁS	194.00	3.00	30.00	Multi-purpose
TOTAL PUERTO SAN CIBRAO	738.00			
TOTAL PORT AUTHORITY	14,699.00			

Updated data as at 31/12/2024

2.2.1.2. CLASSIFICATION BY JOB AND DRAFT

EMPLOYMENT	Linear metres with "C" draft (m)					Totals	
	C>=12	12>C>=10	10>C>=8	8>C>=6	6>C>=4		C<4
FERROL - OUTER HARBOUR							
FROM THE SERVICE							
Commercial basins							
CONTAINERS	173.00	-	-	-	-	173.00	-
BULK SOLIDS	414.00	-	-	-	-	414.00	-
MULTI-PURPOSE	996.00	74.00	-	-	-	1,070.00	-
PORT SERVICES	107.00	-	-	-	-	107.00	-
FROM INDIVIDUALS							
Commercial basins							
LIQUID BULK	384.00	-	-	-	-	384.00	-
TOTAL FERROL OUTER PORT	2,074.00	74.00	-	-	-	2,148.00	-
FERROL - INNER HARBOUR							
FROM THE SERVICE							
Commercial basins							
MULTI-PURPOSE	793.00	253.00	513.00	194.00	-	1,753.00	-
RO-RO TRAFFIC	-	216.00	229.00	-	-	445.00	-
PORT SERVICES	-	-	-	47.00	-	47.00	-
Other dock basins							
FISHING	-	-	-	-	733.00	733.00	100.00
MULTI-PURPOSE	-	-	-	80.00	-	80.00	96.00
RECREATIONAL SPORTS	-	-	-	-	1,561.00	1,561.00	1,364.00
PORT SERVICES	-	-	-	62.00	27.00	89.00	-
FROM INDIVIDUALS							
Commercial basins							
LIQUID BULK	975.00	-	-	-	-	975.00	-
REPAIRS AND ARMAMENTS	-	811.00	1,317.00	1,760.00	468.00	4,356.00	150.00
TOTAL FERROL INLAND PORT	1,768.00	1,280.00	2,059.00	2,143.00	2,789.00	10,039.00	1,774.00
SAN CIBRAO PORT							
FROM INDIVIDUALS							
MULTI-PURPOSE	338.00	-	-	206.00	-	544.00	194.00
TOTAL PUERTO SAN CIBRAO	338.00	-	-	206.00	-	544.00	194.00
TOTAL PORT AUTHORITY	4,180.00	1,354.00	2,059.00	2,349.00	2,789.00	12,731.00	1,968.00

Updated data as at 31/12/2024

2.2.2. GROUND SURFACES AND WAREHOUSE AREAS (m²)

QUAY-ZONE	STORES			VIALES	REST	TOTAL
	DISCOVERED	COVERED-OPEN	CLOSED			
PORT OF FERROL						
OUTER HARBOUR						
From the service						
INSIDE THE PORT AREA	377,054			85,968	316,522	779,544
OUTSIDE THE PORT AREA					16,581	16,581
SERVICE SUBTOTAL	377,054	-	-	85,968	333,103	796,125
Individuals						
QUAY	287,776				23,458	311,234
DAM	4,684				36	4,720
SUBTOTAL FOR INDIVIDUALS	292,460	-	-	-	23,494	315,954
TOTAL OUTER HARBOUR	669,514	-	-	85,968	356,597	1,112,079
INLAND PORT						
From the service						
INSIDE THE PORT AREA	169,077		2,112	57,763	53,046	281,998
OUTSIDE THE PORT AREA					80,558	80,558
SERVICE SUBTOTAL	169,077	-	2,112	57,763	133,605	362,557
Individuals						
INSIDE THE PORT AREA			33,820	314	2,151	36,285
OUTSIDE THE PORT AREA					1,869	1,869
SUBTOTAL FOR INDIVIDUALS	-	-	33,820	314	4,020	38,154
TOTAL INLAND PORT	169,077	-	35,932	58,077	137,625	400,711
RÍA DE FERROL						
From the service						
A GRAÑA E INFRAESTRUCTURA TUNNEL					80,654	80,654
A CABANA					8,364	8,364
A MALATA					21,320	21,320
CARANZA					42,311	42,311
PERLÍO-FENE					29,555	29,555
XUBIA-NARON					47,485	47,485
SWEETHEART					86,250	86,250
AS PIAS					9,646	9,646
SERVICE SUBTOTAL	-	-	-	-	325,585	325,585
Individuals						
A GRAÑA					221	221
CARANZA					303	303
PERLÍO-FENE					729,117	729,117
MUGARDOS					140,385	140,385
NARÓN					90,739	90,739
PRIOR					19	19
SUBTOTAL OF INDIVIDUALS	-	-	-	-	960,784	960,784
TOTAL RÍA FERROL	-	-	-	-	1,286,369	1,286,369
TOTAL PORT OF FERROL	836,550		37,973	144,045	1,780,591	2,799,159
SAN CIBRAO PORT						
From the service	-	-	-	-	508	508
Individuals						
SAN CIBRAO					395,106	395,106
PANCHA ISLAND					500	500
SUBTOTAL FOR INDIVIDUALS	-	-	-	-	395,606	395,606
TOTAL PUERTO SAN CIBRAO	-	-	-	-	396,114	396,114
TOTAL PORT AUTHORITY	838,591	-	35,932	144,045	2,176,705	3,195,273

Updated data as at 31/12/2024

2.2.3. COLD STORES AND ICE FACTORIES

(no data)

2.2.4. SEA TERMINAL BUILDINGS

(no movement)

2.2.5. FISHING FACILITIES

TYPE OF INSTALLATION	SITUATION	SURFACE AREA (m2)
LONJA	Quay quay	836
MULTIPLE USES	Quay quay	321
BOOTHS FOR FISHING INDUSTRIES	Quay quay	281
TOTAL		1,438

Updated data as at 31/12/2024

2.2.6. BUILDINGS AND FACILITIES FOR PUBLIC USE

SITUATION	OWNER	USO	CHARACTERISTICS
FERROL OUTER HARBOUR			
BUILDINGS			
ACCESS	PAFSC	Access control booth	1 floor, 179.90 m² (179.90 sqm)
CAPE PRIORIÑO	PAFSC	Interpretive Centre and multi-purpose building	2 floors, 571.47 m² (571.47 sqm)
SHELTER DIKE	PAFSC	Service Coordination Centre	4 floors, 920.85 m² (920.85 sqm)
ESPLANADE	PAFSC	Goods Inspection Centre	1 storey, 717.51 m² (717.51 sqm)
ESPLANADE	PAFSC	Prioriño Building	3 floors. 3297.21 m²
HISTORICAL HERITAGE			
CAPE PRIORIÑO	PAFSC	Cabo Prioriño Battery	1 floor, 1,109.41 m² (1,109.41 sqm)
CAPE PRIORIÑO	PAFSC	Punta Viñas Battery	1 storey, 2,393.86 m² (2,393.86 m²)
FACILITIES			
CAPE PRIORIÑO	PAFSC	CT10 Power Transformer Yard	1 floor, 10.80 m² (10.80 sqm)
SHELTER DIKE	PAFSC	CT3 Power Transformer Yard	1 floor, 7.57 m² (7.57 sqm)
SHELTER DIKE	PAFSC	Distribution Centre CD3	1 floor, 7.57 m² (7.57 sqm)
ESPLANADE	PAFSC	Distribution Centre CDPCF1	1 floor, 23.62 m² (23.62 sqm)
ESPLANADE	PAFSC	Power Transformer Yard CT1	1 storey, 11.40 m² (11.40 sqm)
ESPLANADE	PAFSC	Power Transformer Yard CT2	1 floor, 9.36 m² (9.36 sqm)
ESPLANADE	PAFSC	CT4 Power Transformer Yard	1 floor, 9.36 m² (9.36 sqm)
ESPLANADE	PAFSC	CT5 Power Transformer Yard	1 floor, 10.80 m² (10.80 sqm)
ESPLANADE	PAFSC	CT6 Power Transformer Yard	1 floor, 12.00 m² (12.00 sqm)
ESPLANADE	PAFSC	CT7 Power Transformer Yard	1 floor, 12.00 m² (12.00 sqm)
ESPLANADE	PAFSC	CT8 Power Transformer Yard	1 floor, 12.60 m² (12.60 sqm)
ESPLANADE	PAFSC	Distribution Centre CD1	1 floor, 7.92 m² (7.92 sqm)
ESPLANADE	PAFSC	Distribution Centre CD2	1 floor, 8.88 m² (8.88 sqm)
FERROL INLAND PORT			
BUILDINGS			
STREET NO. 1	Directorate General Merchant Navy	Maritime Captaincy	2 floors, 1,173 m² (1,173 sqm)
STREET NO. 1	PAFSC	Exhibition Hall	1 floor, 392.00 m² (392.00 sqm)
STREET NO. 4	PAFSC	Miscellaneous and Guardia Civil	3 floors, 953.61m², 953.61m².
MAIN STREET	PAFSC	Border Police/Offices/Training rooms	3 floors, 556.48 m² (556.48 sqm)
CURUXEIRAS DOCK BASIN	PAFSC	Head offices	4 floors, 839.16 m² (839.16 sqm)
CURUXEIRAS DOCK BASIN	PAFSC	Offices (Former Headquarters)	4 floors, 611.08 m² (611.08 sqm)
PORT ENTRANCE	PAFSC	Access control booths (2 pcs)	1 storey, 2x16 sqm
ESPIGÓN QUAY	PAFSC	Service Coordination Centre	3 floors, 763.37 m² (763.37 m²)
CARRETERA ALTA DEL PUERTO	PAFSC	Multipurpose Building	2 floors, 987.00 m² (987.00 m²)

SITUATION	OWNER	USO	CHARACTERISTICS
FACILITIES			
FDEZ LADREDA QUAY	PAFSC	Power Transformer Yard No. 1	1 floor, 29.42 m2
FDEZ LADREDA QUAY	PAFSC	Power Transformer Yard No. 2	1 floor, 26.21 m2
NEW QUAY	PAFSC	Power Transformer Yard No. 3	1 floor, 22.90 m2
CTRA. BAJA	PAFSC	Power Transformer Yard No. 4	1 floor, 29.42 m^2 (29.42 sqm)
NEW QUAY	PAFSC	Power Transformer Yard Building. P.T.	1 floor, 37.70 m^2 (37.70 sqm)
OTHER			
STREET NO. 3	PAFSC	Parking	585.66 m2

PORT OF SAN CIBRAO

PORT	Ministry of Finance	Customs	40 m^2

Updated data as at 31/12/2024

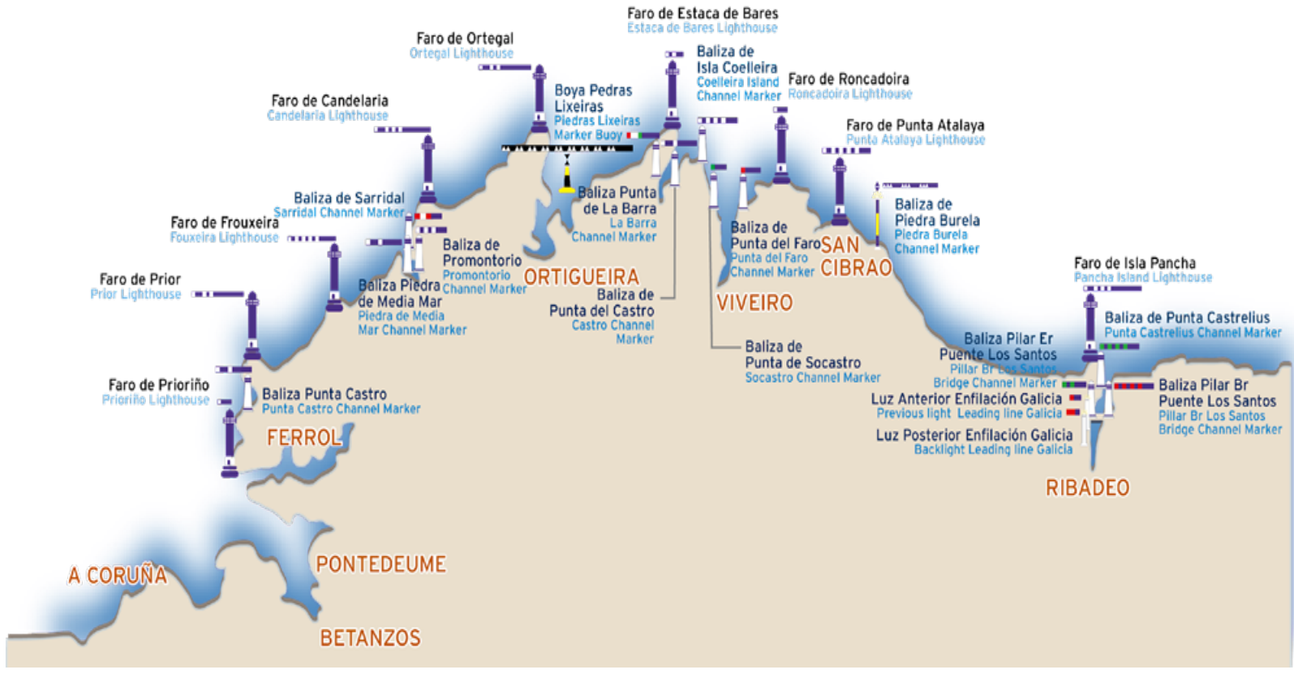
2.2.7. SHELTER DYKES

DENOMINATION	LENGTH (m)	CHARACTERISTICS
FERROL PORT		
VIRGEN DE CHAMORRO DAM	1,067	Slope embankment with block protection mantle
SAN CIBRAO PORT		
NORTH DAM	935	Dike with dolomite and boulder protection blanket
SOUTH DIKE	1,130	Dike with dolomite and boulder protection blanket

Updated data as at 31/12/2024

2.2.8. SCHEMATIC DRAWING OF HEADLAMPS AND BEACONS

Maritime signals of the PAFSC coastal network



BEACONING OF THE PORT AND ESTUARY OF FERROL

Updated data as at 31/12/2024

2.2.9. LIST OF HEADLAMPS AND BEACONS

NO.	NAME AND LOCATION	TYPE	COMPETENCE	DESCRIPTION	COLOUR	CHARACTERISTICS	SCOPE
RIBADEO RIVER							
2740	Pancha Island.	Lighthouse	PAFSC	White cylindrical tower, black bands	Blanca	GpD(3+1)B 20s	21
2742	2nd range line 205th ant.	Coastal range line	PAFSC	White tower. Red rhombus	Red	RpR 0,6s	3
2742.1	2nd heading 205th range line	Coastal range line	PAFSC	White rectangular support	Red	OcR 2s	3
2741	Castrelius Point	Coastal beacon	PAFSC	Green cylindrical tower	Green and White	GpD(4)BV 15s	5
2743	Bridge of the Saints Pilar de Br.	Coastal beacon	PAFSC	Bridge pillar. The Br	Red	GpD(4)R 11s	4
2743.1	Bridge of the Pillar Saints of Er.	Coastal beacon	PAFSC	Bridge pillar. The Er	Green	GpD(2)V 7s	4
PORT OF RIBADEO							
2745	Dock Basin to Er.		Portos de Galicia	Green post on white and green column	Green	DV 5s	3
2747	Dock Basin of Porcillan A Br.		Portos de Galicia	Red post on cylindrical column B/R	Red	DR 5s	1
2750	Mirasol Dock Basin A Er.		Portos de Galicia	Green post on column B/V	Green	GpD(2) V 7s	1
2752	Mirasol Dock Basin A Br.		Portos de Galicia	Red post on cylindrical column B/R	Red	GpD(2)R 7s	1
2760	Mirasol Quay Extr. N.		Portos de Galicia	Green post on column B/V	Green	GpD(3)V 9s	1
PORT OF RINLO							
2775	Extreme dyke		Portos de Galicia	Green cylindrical tower	Green	DV 5s	3
RIA DE FOZ-FISHING PORT							
2810	Sand containment breakwater. Extr.		Portos de Galicia	Post	Green	Ct V 1s	3
2812	Dock Basin Portochico Breakwater. Extr.		Portos de Galicia	White cylindrical turret	Green	GpD(2) V 7s	1
2814	Portochico Dock Basin. Extr.		Portos de Galicia	White pole	Red	GpD(2) R 7s	1
2820	Fishing basin Dique. Extr.		Portos de Galicia	White pole	Red	GpD(3) R 9s	1
PORT OF BURELA							
2830	Burela Stone	Coastal beacon	PAFSC	Black tower yellow band.card. E	Blanca	GpCt (3) B 10 s	10
2840	Shelter dyke. Extr.		Portos de Galicia	Green column	Red and green	GpD(2) RV 7s	5
2850	Hammer. Extr.		Portos de Galicia	Green tower	Green	GpD(3)V 9s	3
2850.1	1 Buoy on port side		Portos de Galicia	De espeque. Port side	Red	GpD(3) R 9s	3
2852	Commercial Quay. Breakwater. Extr.		Portos de Galicia	Green tower with red central band	Green	GpD(2+1)V 15s	1
2852.1	2 Port buoy		Portos de Galicia	De espeque. Port side	Red	GpD(4) R 11s	1
2855	Contradict. Extr. SE		Portos de Galicia	White red pole	Red	GpD(3)R 9s	1
2857	Hammer. Ang. Inside		Portos de Galicia	White red pole	Red	GpD(4)R 11s	1
2859	Dike. Quay. Heel		Portos de Galicia	Green white pole	Green	DV 5s	1
SAN CIBRAO-FISHING PORT							
2865	Submarine outfall. buoy		Aquidoro	From the castle. Special mark	Yellow	DA 2s	3
2870	Atalaya Point	Lighthouse	PAFSC	Cylindrical white turret black stripe	Blanca	GpD(5)B 20s	20
2880	Directional light		Portos de Galicia	White turret. Red rhombus	Red and white	DirCtRB 1s	5
2890	Anxuela Islet. Extreme dyke		Portos de Galicia	White column with green band	Green	DV 3s	3
2900	Angulo Quay		Portos de Galicia	Red column	Red	GpD(2)R 7s	3
PORT OF SPANISH ALUMINIUM							
2910	N203°55' previous range line		ALCOA	White cylindrical tower red stripes	Blanca	GpD(2)B 6s	7
2911	Enf.channel N203º55'.P.A 475 ant		ALCOA	White cylindrical tower with red bands	Blanca	OcB 6s	7
2920	Buoy under the Baixa		ALCOA	Card. S	Blanca	GpCt (6)B+DL 15s	3
2925	Buoy to the NW		ALCOA	Card. W.	Blanca	GpCt(9)B15s	3
2930	Approach channel 273°14'. Front range line.		ALCOA	White cylindrical tower red stripes	Blanca	GpD(2)B 6s	7
2931	Enfil..canal E273º 14' Post.A275m. of ant.		ALCOA	White cylindrical tower with red bands	Blanca	OcB 6s	7
2940	North end dyke		ALCOA	Pyramid-shaped castle on octagonal prism	Green and white	GpD(2)VB 8s	3
2942	Buoy Harbour Mouth Er.		ALCOA	External lateral taper	Green and white	DV 4s	5

NO.	NAME AND LOCATION	TYPE	COMPETENCE	DESCRIPTION	COLOUR	CHARACTERISTICS	SCOPE
2945	South end dyke		ALCOA	Metal castillete on grey column	Red	GpD(3)R 8s	3
2947	Buoy Harbour Mouth Br.		ALCOA	Port side cylindrical	Red	DR 4s	5
2955	Buoy L-1		ALCOA	De espeque Mc Esp.	Yellow	DA	1
2960	Submarine outfall buoy		ALCOA	De castillete Mc Esp.	Yellow	Ct A	1
2965	Buoy L-5		ALCOA	De espeque mc Esp.	Yellow	DA	1
2970	Marine Farm Buoy		ALCOA	De espeque mc. Esp.	Yellow	Ct A	1
2975	Submarine outfall buoy		ALCOA	De castillete Mc Esp.	Yellow	DA 10s	2
2990	Roncadoira Point	Lighthouse	PAFSC	White cylindrical tower	Blanca	D8 7,5s	21
RIA DE VIVERO							
3010	Lighthouse Point	Coastal beacon	PAFSC	Red turret	Red	DR 5s	7
3020	Socastro Point	Coastal beacon	PAFSC	Green turret	Green	DV 5s	7
PORT OF CELEIRO							
3030	Punta del Puntal. Shelter dyke. Extr.		Portos de Galicia	Port side red column	Red	GpD(2)R 7s	5
3032	Hammer. Extr.		Portos de Galicia	Port side red column	Red	GpD(3)R 9s	1
3034	South Quay. Extr.		Portos de Galicia	Cylindrical Er. Ppal Br.	Green	GpD(2+1)V 15s	1
3036	Channelling of the Landrove River		Portos de Galicia	Starboard side green column	Green	GpD(2)V 7s	1
PORT OF VIVEIRO							
3038	Extr. Shelter Dam		Portos de Galicia	Green column. The Er.	Green	GpD(2+1)V 15s	1
03038.5	Harbour mouth. Port side		Portos de Galicia	Red pole	Red	GpD(4)R 11s	1
3040	Buoy ODAS 7003		EPPE	Lenticular yellow with superstructure	Yellow	Gp Ct (5) A 20s	3
RIA DEL BARQUERO							
3060	Coelleira Island	Coastal beacon	PAFSC	Grey masonry conical tower	Blanca	GpD(4)B 16s	7
3065	Puerto de Bares. Extr. Dam		Portos de Galicia	Green tip	Green	GpD(2)V 7s	3
3070	Castro Point	Coastal beacon	PAFSC	White truncated cone tower	Blanca	GpD(2)B 7s	5
3080	Punta de la Barra	Coastal beacon	PAFSC	White trocho-conical tower	B/R/V	DBRV 3s	5

NO.	NAME AND LOCATION	TYPE	COMPETENCE	DESCRIPTION	COLOUR	CHARACTERISTICS	SCOPE
PORT OF O VICEDO							
3085	North Dike Extr.		Portos de Galicia	Red pole on B/R turret	Red	GpD(4)R11 s	5
3087	Dique Sur Extr.		Portos de Galicia	Green post on column B/V	Green	GpD(4)V 11 s	3
03087.5	Extr. Floating dock		Portos de Galicia	Red metal post	Red	DR 5 s	1
BOATMAN'S HARBOUR							
3088	Extr. Shelter dyke		Portos de Galicia	Red metal post	Red	GpD(3)R 9s	5
3089	Contradict. E		Portos de Galicia	Green metal post	Green	GpD(3)V 9s	3
3090	Contradict. W		Portos de Galicia	Green metal post	Green	GpD(4)V 11s	1
3100	Punta Estaca de Bares	Lighthouse	PAFSC	Octagonal tower and house	Blanca	GpD(2)B 7,5 s	25
PORT OF SPASANTE							
3125	Piedras Lixeiras Buoy	Coastal buoy	PAFSC	From castillete Card. W	Blanca	GpCt(9)B 15 s	5
3130	Shelter dyke. Extr.		Portos de Galicia	Red turret	Red	DR 5 s	3
3135	Contradict. Extr.		Portos de Galicia	Green turret	Green	DV 5 s	1
PORT OF SANTA MARIA DE ORTIGUEIRA							
3136	Buoy		Portos de Galicia	De espeque. Card. N	Blanca	Ct 1s	3
3138	Fishing quay. Extreme S		Portos de Galicia	Red turret	Red	CtR 1s	1
3140	Shelter dyke. End		Portos de Galicia	Red cylindrical tower	Red	GpD(4)R 11s	1
3142	Contradict. End		Portos de Galicia	Green cylindrical tower	Green	GpD(4)V 11s	3
PORT OF AFFECTION							
3150	Breakwater. Extr.		Portos de Galicia	Green and white cylindrical tower	Green	GpD(3)V 9 s	5
3151	Extr. SW Dike		Portos de Galicia	Green metal post	Green	GpD(3)V 9s	3
3153	Ang. N. Quay Attached to the quay		Portos de Galicia	Green metal post	Green	GpD(4)V 11s	1
3160	Cape Ortegal	Lighthouse	PAFSC	Red and white cylindrical tower	Blanca	GpD(2+1)B 15s	18
3170	Candelaria Point	Lighthouse	PAFSC	Octagonal tower and building	Blanca	GpD(3+1)B 24s	21

NO.	NAME AND LOCATION	TYPE	COMPETENCE	DESCRIPTION	COLOUR	CHARACTERISTICS	SCOPE
CEDEIRA RIVER							
3190	Promontorio Point	Coastal beacon	PAFSC	White hexagonal tower	Blanca	GpOc(4)B 10s	10
3192	Punta Sarridal	Coastal beacon	PAFSC	Red cylindrical tower	White and red	OcBR 6s	10
3195	Half Sea Stone	Coastal beacon	PAFSC	White truncated tower	Blanca	GpD(2)B 7s	4
PORT OF CEDEIRA							
3200	Extr. Shelter Dam		Portos de Galicia	Red cylindrical tower	Red	GpD(2)R 7s	5
3201	Quay attached to the quay		Portos de Galicia	Post	Red	GpD(3)R 9s	1
3210	Frouxeira Point	Lighthouse	PAFSC	Prismatic concrete tower	Blanca	GpD(5)B 15s	20
3220	Cape Prior	Lighthouse	PAFSC	Hexagonal ashlar tower and house	Blanca	GpD(1+2)B 15s	22
3225	ODAS buoy		EPPE	Yellow Buoy	Yellow	GpCt(5)A 20 s	--
3235	Castro Point	Coastal beacon	PAFSC	White hexagonal tower	Blanca	GpD(2)B 7s	8
3240	Cape Prioriño Chico	Lighthouse	PAFSC	White octagonal tower and house	Blanca	DB 5s	23
03241.5	ODAS buoy		EPPE	Yellow Buoy	Yellow	GpD(5)A 20s	3
3242	Punta Coitelada buoy	Coastal buoy	PAFSC	From Cardinal W derrick	Black and Yellow	GpCt(9)B 15s	5
FERROL OUTER HARBOUR							
3245	Extr. Shelter Dike	Interior beacon	PAFSC	Red tower with hut	Red	DR 5s	7
03245.1	Extr. Hammerhead Pier	Interior beacon	PAFSC	Red Tower with hut	Red	GpD(2)R 7s	3
RIA DE FERROL-ENTRY CHANNEL							
3250	San Cristobal Battery	Coastal beacon	PAFSC	Quadrangular tower/ Green, White	White and red	FVBR	5
3260	Enfil. 085º 25' Anterior in Punta S.Martín	Coastal focus	PAFSC	White tower	Blanca	DB 1,5 s	3
3261	Enfil. 085º 25' Posterior to 701 of the previous one	Coastal range line	PAFSC	White tower	Blanca	OcB 4 s	3
3270	Muela del Segaño buoy	Coastal buoy	PAFSC	From castillete La. Er.	Green	DV 2 s	5
3272	San Carlos buoy	Coastal buoy	PAFSC	From castillete La. Br.	Red	GpD(3)R 9s	3

NO.	NAME AND LOCATION	TYPE	COMPETENCE	DESCRIPTION	COLOUR	CHARACTERISTICS	SCOPE
3273	Punta Louridal buoy	Coastal buoy	PAFSC	From castillete La. Br.	Red	GpD(4)R 12s	3
3274	St Martin's buoy	Coastal buoy	PAFSC	From castillete La. Er.	Green	GpD(2)V 7s	3
3280	San Felipe buoy	Coastal buoy	PAFSC	From castillete La. Br.	Red	DR 5s	3
3290	La Palma buoy	Coastal buoy	PAFSC	From castillete La. Er.	Green	GpD(3)V 9s	3
3300	La Palma Castle	Coastal beacon	PAFSC	Ashlar tower and house	Blanca	GpOc(1+2)B 7s	5
3303	Cetarean buoy	Coastal buoy	PAFSC	From castillete La Br.	Red	GpD(3)R9s	3
3305	Punta Redonda buoy	Coastal buoy	PAFSC	From castillete La. Er.	Green	GpD(4)V 12s	3
3310	Pereiro buoy	Coastal buoy	PAFSC	From castillete La. Br.	Red	GpD(2)R 7s	3
3320	Vispón buoy	Coastal buoy	PAFSC	From castillete La. Br.	Red	GpD(4)R 12s	3
3330	Punta Piteira breakwater buoy	Coastal buoy	PAFSC	De espeque La. Er.	Green	DV 5s	3
PORT OF MUGARDOS							
3335	Quay Quay Shelter Extr. E		Portos de Galicia	Green and white turret	Green	CtV 1s	3
03335.5	Floating dock. End		Portos de Galicia	Red and white post	Red	CtR 1s	1
3337	Levante Quay Extr.		Portos de Galicia	Red and white turret	Red	CtR 1s	1
3338	Floating dock. End E		Portos de Galicia	Green and white post	Green	CtV 1s	1
LA GRAÑA NAVAL BASE							
3340	Oil quay NE mooring		Defence	Metal pole	Red	GpD(2)R 7s	1
3345	Oil quay SW mooring		Defence	Metal pole	Red	DR 5s	1
3355	Extr. South breakwater		Defence	Red column	Red	GpD(4)R 12s	1
INLAND PORT-MILITARY ARSENAL-NAVANTIA FERROL-FORESTAL-REGANOSA							
3359	New Dock, SW angle	Interior beacon	PAFSC	Cylindrical La. Br. Ppal. Er.	Red	GpD(2+1)R 12s	3
3360	New Quay, SE corner	Interior beacon	PAFSC	Red column	Red	DR 5s	1
3363	Quay F. Ladreda. Extr.	Interior beacon	PAFSC	Green column	Green	DV 5s	3

NO.	NAME AND LOCATION	TYPE	COMPETENCE	DESCRIPTION	COLOUR	CHARACTERISTICS	SCOPE
3364	Punta Leiras buoy	Coastal buoy	PAFSC	From castillete La. Er.	Green	CtV 1s	3
3365	Mooring Dolphin		Defence	Black and red pyramid	Blanca	GpD(2)B 7s	1
3375	Quay Station Degasif. Extrem. W		Reganosa	Green pole	Green	GpD(2)V 7s	1
3385	Pant. Degassing Station Extrem. E		Forestal del Atlantico	Green pole	Green	GpD(3)V 7s	1
3395	Concepción Arenal Quay	Interior beacon	PAFSC	Red column	Red	GpD(2)R 7s	3
3397	Dock Basin of Curuxeiras. Harbour Mouth Er	Interior beacon	PAFSC	Green/white column	Green	CtV 1s	1
3398	Dock Basin of Curuxeiras. Harbour Mouth Br	Interior beacon	PAFSC	Red/white column	Red	CtR 1s	1
3400	Arsenal in the Asta del Parque		Defence	Cylindrical La. Br. Ppal. Er.	Red	GpD(2+1)R 12s	3
3410	Arsenal at Punta del Martillo		Defence	Red column	Red	DR 5s	1
3420	Dock No. 1 End of the breakwater		Defence	Green column	Green	GpD(2)V 7s	1
3425	Outer quay. Extreme NW		Defence	Metal column	Green	DV 1s	1
3430	Dock Basin No. 2 End of the Quay		Defence	Red truncated cone tower/green band	Red	GpD(2+1)R 12s	3
3450	Commercial Quay. Extr.		Defence	Green truncated cone tower/red band	Green	GpD(2+1)V 10s	1
3452	Espigón Extr. Caranza	Interior beacon	PAFSC	Green cylindrical tower	Green	CtV 1s	1

NO.	NAME AND LOCATION	TYPE	COMPETENCE	DESCRIPTION	COLOUR	CHARACTERISTICS	SCOPE
PORT OF MANIÑOS-BARALLOBRE							
03454.5	Protective screen		Portos de Galicia	Green pole	Green	CtV 1s	1
03454.6	Floating dock Ext.		Portos de Galicia	Green pole	Green	CtV 1s	1
ACCESS NAVANTIA FENE							
3455	Buoy 1 Izar Fene Shipyard		Navantia	From Espeque La. Er.	Green	GpD(4)V 10s	1
3457	Buoy 2 Izar Fene Shipyard		Navantia	From Espeque La. Br.	Red	GpD(2)R 7s	1
3459	Caranza beach breakwater buoy	Inner buoy	PAFSC	From Espeque Car.S	White	GpCt(6) DL 10s	1
3460	Buoy 3 Izar Fene Shipyard		Navantia	De Espeque Mc. Esp.	Yellow	GpD(4)A 11s	1
3462	Buoy 4 Izar Fene Shipyard		Navantia	From Espeque La. Br.	Red	GpD(3)R 9s	1
3470	Quay No. 7 (Hammer) Extr		Navantia	Grey lattice tower	Green	GpD(2)V 7 s	3
3475	Quay no. 10		Navantia	Grey lattice tower	Green	GpD(2+1)V 12s	3
3485	Quay No. 11 (Penedo) Ang. N		Navantia	Grey lattice tower	Green	DV 5s	3
RIA DE ARES BETANZOS							
3486	ODAS buoy		EPPE	Yellow buoy	Yellow	GpD(5) A 20s	-
03487.2	Sea farming Ferrol D. Buoy W		Portos de Galicia	Yellow buoy	Yellow	GpD(4)A 11s	3
03487.3	Marine farming Ferrol D. Buoy E		Portos de Galicia	Yellow buoy	Yellow	GpD(4)A 11s	3
PORT OF ARES							
3488	Shelter dyke. Extr.		Portos de Galicia	Red and white cylindrical tower	Red	GpD(4)R 11s	5
03488.1	Quay quay. Extr.		Portos de Galicia	Red and white post	Red	GpD(4)R 11s	3
03488.2	Floating dock. End E		Portos de Galicia	Green pole with red band	Green	GpD(2+1)V 15s	3
03488.21	Floating dock. End W		Portos de Galicia	Red and white post	Red	DR 5s	1
03488.3	Dredged channel limit. Buoy E		Portos de Galicia	Green conical buoy	Green	GpD(4)R 11s	1

NO.	NAME AND LOCATION	TYPE	COMPETENCE	DESCRIPTION	COLOUR	CHARACTERISTICS	SCOPE
03488.4	Dredged channel limit. Buoy W		Portos de Galicia	Green conical buoy	Green	DV 5s	1
03488.8	Concrete pier. Extr.		Portos de Galicia	Yellow post	Yellow	DA 5s	1
FERROL MOURON NURSERIES							
3489	Apex buoy C		Proinsa	Yellow buoy	Yellow	DA 5s	3
03489.1	Apex buoy D		Proinsa	Yellow buoy	Yellow	DA 5s	3
PORT OF PONTEDEUME							
3528	Escollera Playa de Cabañas		Portos de Galicia	Red and white octagonal turret	Red	GpD(3)R 9s	3

Updated data as at 31/12/2024

2.3. PORT SERVICES (TECHNICAL-NAUTICAL)

2.3.1. SHIP TOWING

2.3.2. MOORING AND UNMOORING OF VESSELS

2.3.3. SHIP PILOTAGE

(no content)

2.4.
INSTALLATIONS FOR SHIPS

2.4.1. DOCKS

2.4.1.1. DRIED DOCKS

SITUATION	OWNER	LENGTH (m)	SIZE (m)	DRAWDOWN (draft)	CAPACITY ™
FERROL	Navantia, S.A,- Ferrol	205.00	27.00	10.99	36,000
FERROL	Navantia, S.A,- Ferrol	330.00	51.00	13.87	230,000
PERLÍO-FENE	Navantia, S.A. - Fene	160.00	26.00	7.50	20,000
PERLÍO-FENE	Navantia, S.A. - Fene	274.00	36.00	10.50	80,000

Updated data as at 31/12/2024

2.4.1.2. FLOATING DOCKS

(no movement)

2.4.2. BOAT YARDS

SITUATION	OWNER	Nº RAMPS	LONG. RAMP	WIDTH (m)	PENDING (%)	DRAFT	MAX. TM VESSEL
PORT OF FERROL							
LA GRAÑA	Port Authority	2.00	85.00	11.50			

Updated data as at 31/12/2024

2.4.3. SHIPYARDS (SLIPWAYS)

SITUATION	OWNER	NO. GRADES	LONG. GRADES	WIDTH
FERROL	Navantia, S.A,- Ferrol	1	200	34
FERROL	Navantia, S.A,- Ferrol	1	228	43
FERROL	Navantia, S.A,- Ferrol	1	287	53

Updated data as at 31/12/2024

2.4.4. SHIP SUPPLY SERVICE

SUPPLY TYPE	SITUATION	NUMBER OF TAKES	HOURLY CAPACITY OF EACH SOCKET	HOURLY QUAY CAPACITY	SUPPLIER
PORT OF FERROL					
OUTER HARBOUR					
On duty					
WATER	Outer Harbour	37	25,000 l/h	50,000 l/h	PAFSC
ENERGY ELEC.	Outer Harbour	16	75,2kW*h	1,203.2kW*h	PAFSC
Individuals					
WATER	Infinita Quay	1	23 t/hour	23 t/hour	Masol Iberia Biofuel, S.L.
INNER HARBOUR					
On duty					
WATER	Quay F. Ladreda	29			PAFSC
WATER	New quay	6			PAFSC
WATER	M.C.N.F. Ladreda	8			PAFSC
WATER	Outer spur breakwater	9			PAFSC
WATER	Morro del Espigón	1			PAFSC
WATER	Dárs.Curuxeiras	16			PAFSC
ELECTRICITY	Outer spur breakwater	3	160 kW*h	480 kW*h	PAFSC
ELECTRICITY	Quay F. Ladreda	1	160 kW*h	160 kW*h	PAFSC
ELECTRICITY	Quay F. Ladreda	27	252 kW*h	3,200 kW*h	PAFSC
ELECTRICITY	M.C.N.F. Ladreda	6	252 kW*h	1,512 kW*h	PAFSC
Individuals					
WATER	Dock/Pier	2	12 t/hour	24 t/hour	Forestal del Atlántico S.A.
FUEL OIL	Quay/Pier	2	300 t/hour	600 t/hour	Forestal del Atlántico S.A.
WATER	Reganosa Quay	1	5 t/hour	10 t/hour	Regasificadora del Noroeste S.A.
NITROGEN	Reganosa Quay	1	18 t/hour	18 t/hour	Regasificadora del Noroeste S.A.
PORT OF SAN CIBRAO					
WATER	Quays	5	30t	100t	Alumina Española, S. A.

Updated data as at 31/12/2024

2.5.
MECHANICAL GROUND EQUIPMENT

2.5.1. CRANES

2.5.1.1. QUAY CRANES

SITUATION	OWNER	NO.	TYPE	BRAND	ENERGY	FORCE TM	SCOPE (m)	YIELD (Tm/H)	YEAR
OUTER HARBOUR	Endesa	2	Portico	DFPI+ Konecranes	Electric	54	45	1500	2008
OUTER HARBOUR	Ferrol Container Terminal, S.A.	2	Portico	Konecranes	Electric	60-70	51	NA	2003
OUTER HARBOUR	Ferrol Container Terminal, S.A.	4	Transtainer	Paceco	Diesel	70	NA	NA	2003
INNER HARBOUR	Forestal del Atlántico, S.A.	1	Portico	Liebherr	Electric	Up to 6	40	NA	2003
INNER HARBOUR	Forestal del Atlántico, S.A.	1	Portico	HMF	Electric	Up to 6	30	NA	2012
INNER HARBOUR	Pérez Torres Marítima, S.L.	2	Portico	Macosa	Electric	12	25,6	40/150	1981
INNER HARBOUR	Pérez Torres Marítima, S.L.	1	Portico	Macosa	Electric	16	28,6	40/250	1988
INNER HARBOUR	Pérez Torres Marítima, S.L.	1	Portico	Macosa	Electric	16/30	28,6	40/250	1988
TOTAL		14							

Updated data as at 31/12/2024

2.5.1.2. AUTOMOTIVE CRANES

SITUATION	OWNER	NO.	TYPE	BRAND	ENERGY	FORCE TM	SCOPE (m)	YIELD (Tm/H)	YEAR
OUTER HARBOUR	Greenalia Logís-tics, S.L.J.	1	870 E	Sennebogen	Diesel	20		250	2022
INNER HARBOUR	Perez Torres Marítima, S.L.	1	LHM550	Liebherr	Diesel	144	54		2013
INNER HARBOUR	Perez Torres Marítima, S.L.	1	LHM550	Liebherr	Diesel	144	54		2015
INNER HARBOUR	Perez Torres Marítima, S.L.	1	LHM500	Liebherr	Diesel	140	52,8		2008
OUTER HARBOUR	Terminales Marí-timos de Galicia S.L.	1	HMK 260 EG	Gottwald	Diesel	100		238	1998
OUTER HARBOUR	Terminales Marí-timos de Galicia S.L.	1	HMK 4406	Gottwald	Diesel	100		238	2007
SAN CIBRAO	Perez Torres Marítima, S.L.	1	HMK 6507B	Gottwald	Diesel	125	51	600	2015
SAN CIBRAO	Alúmina Española, S.A.	1	N/A	Elyma	Electric	36		1350	1978
TOTAL PUERTO FERROL + SAN CIBRAO		8							

Updated data as at 31/12/2024

2.5.1.3. NUMBER OF CRANES

TYPE	SERVICE	INDIVIDUALS	TOTAL
CONTAINER CARRIER	0	4	4
PORTICO			
UP TO 6 TM	0	2	2
BETWEEN 7 AND 12 MT	0	2	2
BETWEEN 13 AND 16 MT	0	1	1
LARGER THAN 16 MT	0	5	5
TOTAL GANTRY	0	10	10
AUTOMOBILES	0	8	8
OTHER CRANES	0	0	0
TOTAL	0	22	22

Updated data as at 31/12/204

2.5.2. SPECIAL LOADING AND UNLOADING FACILITIES

SITUATION	OWNER	YEAR	CHARACTERISTICS
FERROL OUTER HARBOUR			
CONCEPCIÓN ARENAL	Endesa Generación, S.A.	2009	Conveyor belts and stacker
VIRGEN DE CHAMORRO DAM	Masol Iberica Biofuel, S.L.	2008	Overhead pipe rack
CONCEPCIÓN ARENAL	Masol Iberica Biofuel, S.L.	2008	Buried pipe rack
FERROL INLAND PORT			
SWAMP (PIER 1)	Forestal del Atlántico, S.A.	1980	Rac for liquid fuels
QUAY (MANIFOLD 2)	Forestal del Atlántico, S.A.	2012	Rac for liquid fuels
RESERVOIR	Regasificadora del Noroeste S.A.	2007	Pipe
SAN CIBRAO PORT			
MAIN BERTH	Alumina Española, S. A.		Bulk solids unloader (bauxite and coke)
MAIN BERTH	Alumina Española, S. A.		Fuel unloader manifold
MAIN BERTH	Alumina Española, S. A.		Caustic soda unloader manifold
AUXILIARY BERTH	Alumina Española, S. A.		Soda unloading manifold
AUXILIARY BERTH	Alumina Española, S. A.		Hydrate loading belt
MAIN BERTH	Alumina Española, S. A.		Alumina shipper
AUXILIARY BERTH	Alumina Española, S. A.		Alumina shipper

Updated data as at 31/12/2024

2.5.4. AUXILIARY EQUIPMENT FOR LOADING, UNLOADING AND TRANSPORT

MATERIAL CLASS	OWNER	NO.	ENERGY	CHARACTERISTICS
STACKER	Endesa Generación, S.A.	1	Electric	5400t/h
SCALE BSCULA	Ferrol-San Cibrao Port Authority	2		60 t
SCALE	Pérez Torres Marítima, S.L.	3	Electric	
SCALE	Endesa Generación, S.A.	3	Electric	60tn
SCALE	Greenalia Logistics, S.L.U.	1	Electric	60tn
TELESCOPIC SHIPPER	Greenalia Logistics, S.L.U.	1	Diesel	Sennenbogen 305
FORKLIFT TRUCK	Ferrol-San Cibrao Port Authority	1	Diesel	Nissan FD02A25Q
FORKLIFT TRUCK	Pérez Torres Marítima, S.L.	24		
FORKLIFT TRUCK	Terminales Marítimas de Galicia S.L.	2	Diesel	Hyster 4XL/Hyster H50
FORKLIFT TRUCK	Endesa Generación, S.A.	2	Diesel	2.5 t and 8 t
CONVEYOR BELT	Endesa Generación, S.A.	1	Electric	5400t/h
ELECTROHYDRAULIC GRAB	Terminales Marítimas de Galicia S.L.	1	Electric	Demag 20 m3
SPOONS	Endesa Generación, S.A.	3		
DUMPER	Ferrol-San Cibrao Port Authority	1	Diesel	Ausa 200 RM
HANDLER	Greenalia Logistics, S.L.U.	3	Diesel	Sennenbogen 818
PALLET HANDLER	Pérez Torres Marítima, S.L.	1		Aplec
PALLET HANDLER	(*) Endesa Generación, S.A.	1		
SHIPPERS' SHOULDER	Pérez Torres Marítima, S.L.	21	Diesel	
PANTOGRAPH	Pérez Torres Marítima, S.L.	2		Auramo
PANTOGRAPH	Pérez Torres Marítima, S.L.	2		Cascade
LIFTING PLATFORM	Ferrol Container Terminal, S.A.	1	Diesel	AD107149
LIFTING PLATFORM	Endesa Generación, S.A.	1	Diesel	16 m
LIFTING PLATFORM	Pérez Torres Marítima, S.L.	1	Diesel	
CRANE BRIDGE	Endesa Generación, S.A.	3	Electric	2 of 8 tn and 1 of 5 tn
HYDRAULIC OCTOPUS	Terminales Marítimas de Galicia S.L.	1	Electric	Verstegen 13 m3
MECHANICAL OCTOPUS	Terminales Marítimas de Galicia S.L.	1	Cable	Verstegen 11,5 m3
MECHANICAL OCTOPUS	Endesa Generación, S.A.	1		15 m3
REACH-STACKER	Ferrol Container Terminal, S.A.	1	Diesel	DRF450-65S5
REACH-STACKER	Pérez Torres Marítima, S.L.	5	Diesel	
RORO TRAILER	Pérez Torres Marítima, S.L.	4	Diesel	
YARD TRACTOR + TRAILER	Ferrol Container Terminal, S.A.	6	NA	NA
TRANSPALET	Endesa Generación, S.A.	1		
TOLVA	Pérez Torres Marítima, S.L.	2		
TRANSPALET	Ferrol-San Cibrao Port Authority	2		

Updated data as at 31/12/2024

2.5.5. OTHER AUXILIARY MATERIAL

MATERIAL CLASS	OWNER	NO.	ENERGY	CHARACTERISTICS
HOOVER	Pérez Torres Marítima, S.L.	2		
BARREDORA	Ferrol-San Cibrao Port Authority	1	Diesel	Applied 636HS
BARREDORA	Greenalia Logistics, S.L.U.	1	Hydraulic	SIMA SPZ21
SWEEPER / HOOVER	Pérez Torres Marítima, S.L.	3	Electric	Nilfisk
DRAWER BOX	Pérez Torres Marítima, S.L.	1	Hydraulic	
WATER CANNON BTG	Pérez Torres Marítima, S.L.	3		60 t
CLAMP	Greenalia Logistics, S.L.U.	4		Various sizes
CONTAINER SPREADER	Terminales Marítimas de Galicia S.L.	1	Electric	20-40-45 feet

Updated data as at 31/12/2024

2.6. FLOATING MATERIAL

2.6.1. DREDGERS

(no movement)

2.6.2. TUGBOATS

NAME	OWNER	ENERGY	POWER (HP)	LENGTH (m)	SIZE (m)	PUNTAL (m)	YEAR
FERROL PORT							
RAMON CASAS	Remolcadores Ferrolanos, S.L.	Diesel	5,073	27	15,25	3,30	2005
HOCHO	Remolcadores Ferrolanos, S.L.	Diesel	3,300	25	8,5	4,70	1999
F. SULLA	Sertosa Norte, S.L.	Diesel	3,350	28,9	8,7	4.80	1993
IBAIZABAL FIVE	Sertosa Norte, S.L.	Diesel	5,186	28,8	11	4.00	2003
ROUND POINT ONE	Tugboats of the Northwest, Ltd.	Diesel	3,526	26	10	4.85	2015
BIZKOR	Tugboats of the Northwest, Ltd.	Diesel	2,030	25	7,9	3.95	1981
SAN CIBRAO PORT							
SERTOSA NINETEEN	Sertosa Norte, S.L.	Diesel	2,030	27	7,9	3.95	1979
SERTOSA TWENTY-THREE	Sertosa Norte, S.L.	Diesel	2,030	27	7,9	4.30	1981
SERTOSA TWENTY-SIX	Sertosa Norte, S.L.	Diesel	3,752	28	11	4.00	1993
SERTOSA THIRTY	Sertosa Norte, S.L.	Diesel	3,752	30	10	4.30	2001

Updated data as at 31/12/2024

2.6.3. BARGES, BARGES AND BARGES

NAME	OWNER	ENERGY	POWER (HP)	LENGTH (m)	SIZE (m)	PUNTAL (m)	YEAR
FERROL PORT							
MOORERS TWO HUNDRED	Moorers Port and Ría Ferrol	Diesel	458,8	43,2	9.04	3,7	1977
SAN CARLOS POINT	Moorers Port and Ría Ferrol	Diesel	227.94	25,2	6.42	2.43	1964

NAME	OWNER	ENERGY	POWER (HP)	LENGTH (m)	SIZE (m)	PUNTAL (m)	YEAR
MOORERS EIGHTY	Moorers Port and Ría Ferrol	Diesel		19,9	12	1,8	2000
MOORERS FIFTEEN	Moorers Port and Ría Ferrol	Diesel		10,0	9,4	2	2017
MOORERS HUNDRED	Moorers Port and Ría Ferrol	Diesel		23,9	15.05	2	2010
MOORERS THREE HUNDRED	Moorers Port and Ría Ferrol	Diesel		24,0	20.12	2,5	2016
MOORERS FOUR HUNDRED	Moorers Port and Ría Ferrol	Diesel		15,8	12.06	1.99	2020
MOORERS FIVE HUNDRED	Moorers Port and Ría Ferrol	Diesel		28,7	15.03	2.49	2018
MOORERS THOUSAND	Marpol Ferrol, S.L.	Diesel	425	36,7	10.98	3,9	2013

Updated data as at 31/12/2024

2.6.4 FLOATING CRANES

NAME	OWNER	ENERGY	CHARACTERISTICS	FORCE (Tm)	SCOPE (M)	HEIGHT ABOVE SEA (M)	YEAR
FERROL PORT							
TOIMIL T-30000/3 (INSTALLED IN PUNTA SAN CARLOS)	Moorers Port and Ría Ferrol	Hydraulics	E: 25.20 M: 6.42 P: 2.43	30,0	15.10	13,8	2006

Updated data as at 31/12/2024

2.6.5. OTHER FLOATING SERVICE AIDS

NAME	OWNER	TYPE	CHARACTERISTICS	YEAR
MOORERS TEN	Moorers Port and Ría Ferrol	Emb. motor-driven	E: 14.83 M: 3.96 P:	1988
MOORERS ELEVEN	Moorers Port and Ría Ferrol	Emb. motor-driven	E: 5.80 M: 2 P: 0.90	2004
MOORERS TWELVE	Moorers Port and Ría Ferrol	Emb. motor-driven	E: 5.90 M: 2 P: 0.90	2004
MOORERS TWENTY	Moorers Port and Ría Ferrol	Tugboat power 257.35 hp	E: 11 M: 4 P: 1.55	2008
MOORERS THIRTY	Moorers Port and Ría Ferrol	Tugboat power 257.35 hp	E: 11 M: 4 P: 1.55	2010
MOORERS FIFTY	Moorers Port and Ría Ferrol	Emb. motor-driven	E: 14.50 M: 4 P: 1.70	1985
MOORERS SIXTY	Moorers Port and Ría Ferrol	Emb. motor-driven	E:6 M: 2.20 P: 1	2007
MOORERS NINETY	Moorers Port and Ría Ferrol	Emb. motor-driven	E: 10.97 M:3.90 P: 1.72	2019
MOORERS SEVENTY	Marpol Ferrol, S.L.	Tugboat power 330.88 hp	E:10,6 M:4,9 P:1.85	2008
ASUNCIÓN NIEVES	Ferrol-San Cibrao Port Authority	Emb. motor-driven	E: 8.06 M: 2.80 P: 1.49	2004
LEIRAS POINT	Pilots of the Port and Estuary of Ferrol, S.L.P.	FPVR Vessel Pilots	Power: 2 x 338.24 KW Caterpillar diesel engines Tonnage: 27.28 GRT Length: 15.42 m Beam: 4.37 m Depth: 2.48 m	1982
PUNTA DAS VELLAS	Pilots of the Port and Estuary of Ferrol, S.L.P.	FPVR Vessel Pilots	Power: 2 x 331 kW Volvo-Penta diesel engines Tonnage: 32.02 GRT Length: 14.4 m Beam: 4.5 m Depth: 2.3 m	2009
PUNTA DO CRUCEIRO	Pilots of the Port and Estuary of Ferrol, S.L.P.	FPVR Vessel Pilots	Power: 2 x 500 KW Volvo-Penta diesel engines Tonnage: 26 GRT Length: 14.23 m Beam: 4.05 m Depth: 1.35 m	2024
SAN CIBRAO	Sertosa Norte, S.L.	Pilot boat	E: 13,5 M: 5 P: 1.34	2020
PARRULO	Sertosa Norte, S.L.	Mooring boat	E: 10.68 M: 3.92 P: 1.90	1980
PANCHO	Botaman	Mooring boat	E: 13 M: 4 P: 1.75	1971/89
GARBÍ	Botaman	Mooring boat	E: 9,3 M: 3,2 D: 1.70	1969
MARIANO AND PEPITO	Botaman	Mooring boat	E: 9.95 M: 3.46 P: 2.03	1983
EBRE	Botaman	Mooring boat	E: 10.04 M: 3.52 P: 1.72	1995

Updated data as at 31/12/2024

2.7.
COMMUNICATIONS AND PORT PLANS

2.7.1. LAND ACCESS AND INTERNAL COMMUNICATIONS

PORT OF FERROL

ROAD LAND ACCESS AND INLAND CIRCULATION

The access control of the Inner Port of Ferrol is located at the end of the Ferrol branch of the AP-9 (Autopista del Atlántico), a motorway that connects with the A-6 (Autovía del Noroeste), which in turn provides access to the rest of the Spanish and European high-capacity network.

The Outer Port of Ferrol is connected to the general road network through the N-655. Both through the AP-9 and the N-655 there is a direct connection with the AG-64, and from there with the A-8, which connects both ports with the north of the province and the Peninsula, and also allows its exit to Europe.

From the point of view of the road network inside the Port, and in the case of the Inner Port, access is from the roundabout at the end of the AP-9 motorway. From the access control, traffic is organised from the entrance roundabout which distributes the traffic towards the New Quay and Main Street. The main street runs parallel to the Muelle Fernández Ladreda quay until it reaches the Muelle del Espigón quay. Six perpendicular streets lead off from it, giving access to the area of deposits, warehouses and the Fernández Ladreda quay; the end of this street gives access to the Espigón quay.

In the case of the Outer Harbour, traffic is distributed towards each of the different phases into which it is organised, 1st and 2nd phase, from the roundabout at the end of the access viaduct, which is located in the centre of the port facility.

INLAND RAIL ACCESS AND HINTERLAND PLANNING

Rail access to the Port of Ferrol is via an existing Iberian gauge (1,668 mm) railway line, although there are also metric gauge (1,000 mm) infrastructures close to the port, such as the Ferrol-Oviedo line.

In particular, the Inner Port of Ferrol has a direct rail connection with the city's railway station on Iberian gauge without electrification. The Ferrol-Betanzos branch line departs from this station, an Iberian gauge line which connects the port with the rest of Spain by rail (Madrid-Coruña line via León), and the metric gauge line to Asturias.

The internal railway network is made up of two main alignments; one parallel to the Fernández Ladreda Wharf and the depots and warehouses on Main Street which form a ring that serves the ro-ro ramp installed at the junction between the outer spur breakwater, the service esplanade of Fernández Ladreda Quay, the ro-ro ramp at the northern end of Fernández Ladreda Quay and the warehouses on Main Street; the second of the alignments leads to a railway terminal located on the esplanade of the Cerramiento Norte quay, designed to serve the traffic of this quay and the New Quay.

PORT OF SAN CIBRAO

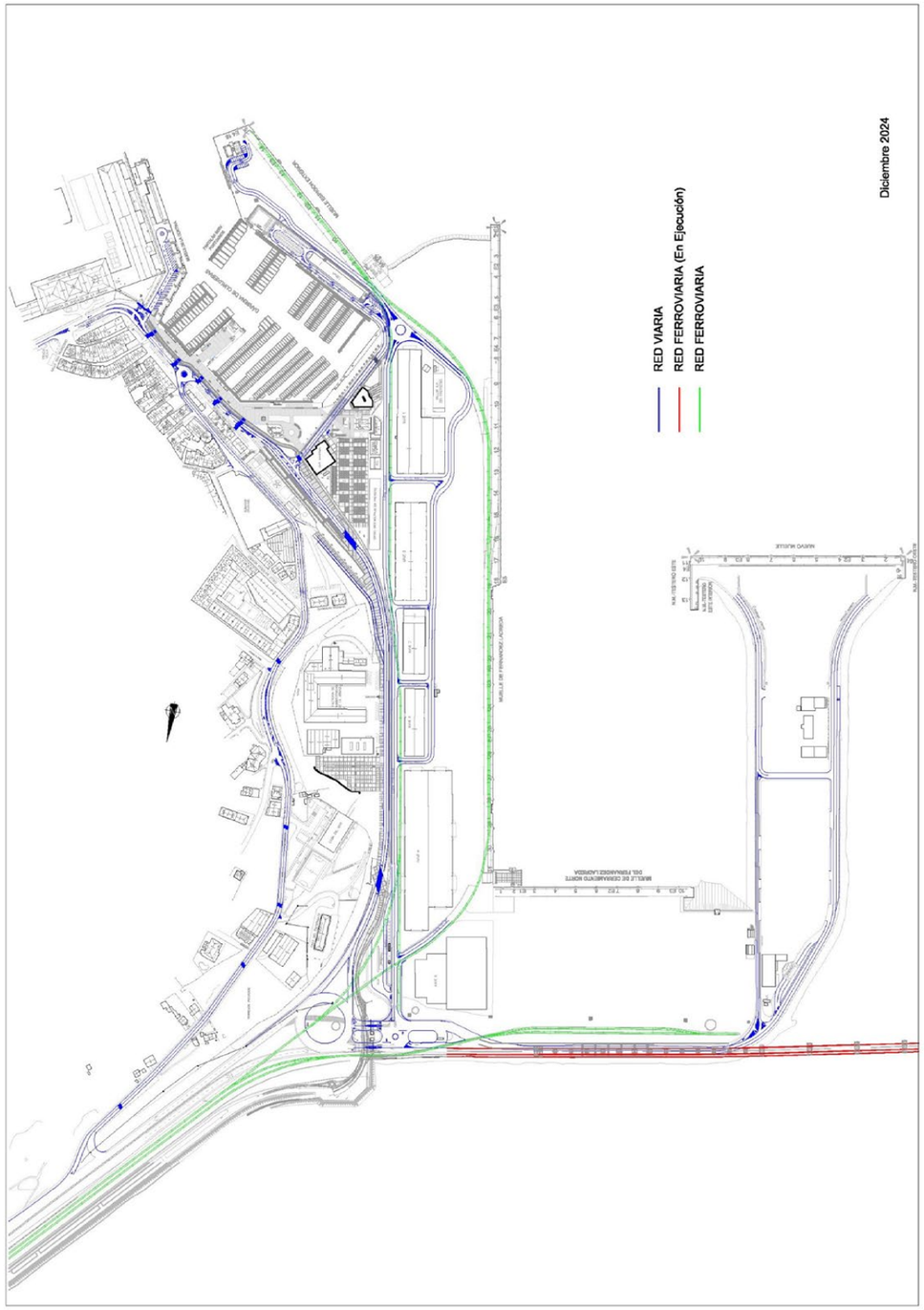
LAND ACCESS BY ROAD

Access by road to the Port of San Cibrao is via the N-642 which connects with the A-8 from which, heading north, you can access the north of the peninsula, and southwards it connects with the A-6 and the centre of the peninsula.

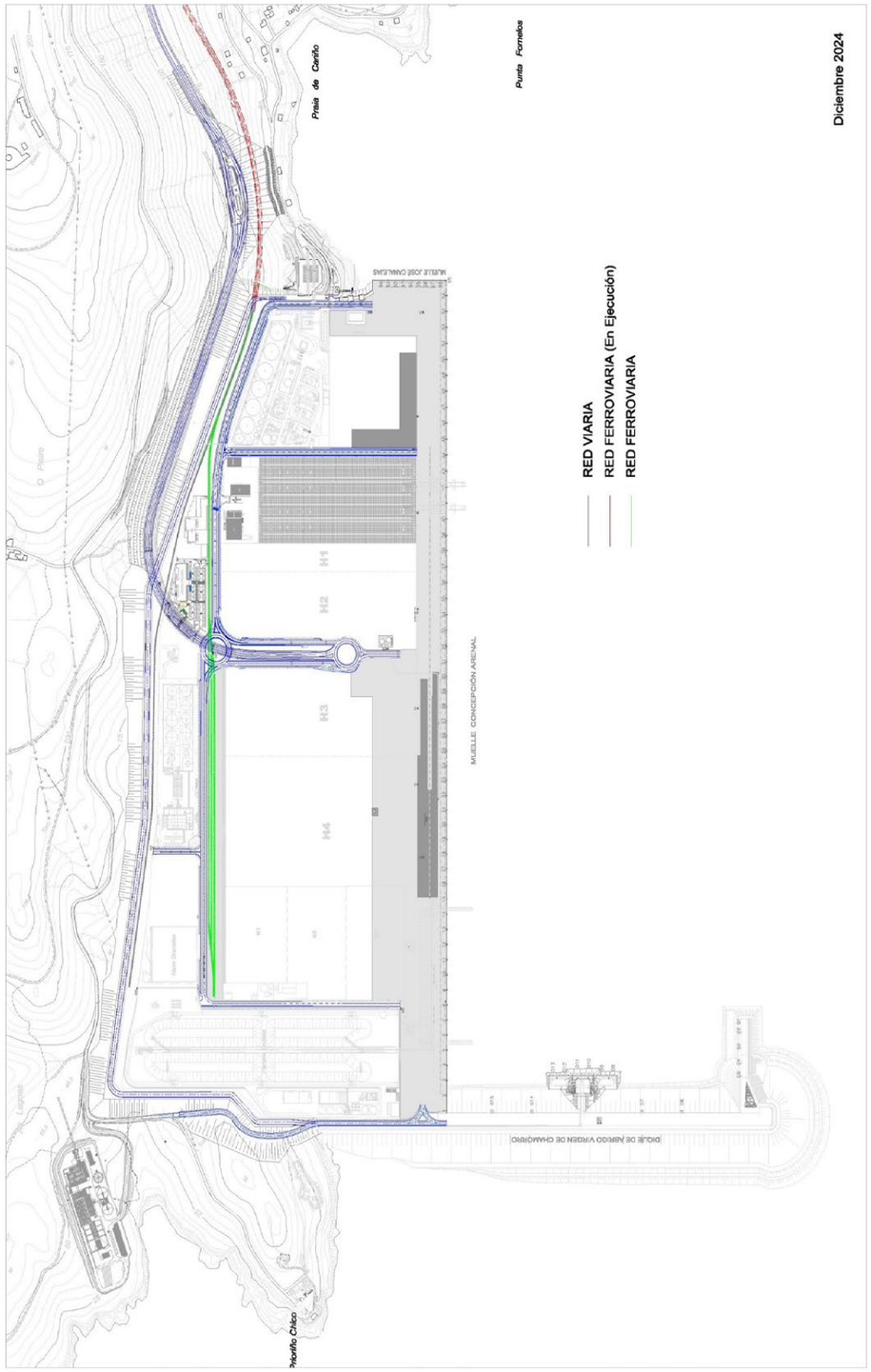
Updated data as at 31/12/2024

2.7.2. INTERNAL TRAFFIC PLAN

PORT OF FERROL. INLAND PORT



PORT OF FERROL. OUTER HARBOUR



2.7.3. MAP OF LAND ACCESS

Fuentes: http://www.adif.es y http://www.mitma.gob.es

Updated data as at 31/12/2024

2.8.
BRIEF DESCRIPTION OF FACILITIES FOR SPECIFIC TRAFFICS

PORT OF FERROL

ENDESA

Endesa has a Port Terminal of just over 100,000 m2 suitable for loading/unloading and storage of bulk solids and general cargo.
The facilities are equipped with an automated bulk solids loading/unloading handling system consisting of 2 reversible loading/unloading gantries, a conveyor system and a stacker–reclaimer belt system. It also has a 60,000 m2 storage yard, which is guarded 365 days a year.
The cranes are designed for vessels with a loading/unloading capacity between 5,000 and 200,000 DWT.
In addition, 3 fully automated and reversible truck scales are available for trucks.
The storage yard has a surface area of 60,000 m2 and is suitable for both bulk and different types of goods, including large pieces and packages.
The terminal is certified under the standards UNE-EN-ISO 9001, 14001, 45001, EMAS regulation, Carbon Footprint and Zero Waste.

Updated data as at 31/12/2024

MASOL IBERIA BIOFUEL, S.L.

Location: Ferrol Outer Harbour - Berth name INFINITA FE01.

Liquid bulk loading and unloading terminal consisting of the following main equipment:

- Two 10" ASA loading/unloading arms for connection to vessels
- Two connection lines to the plant for sending and receiving product by pig.

Materials handled: vegetable oils, UCO, methanol, biodiesel and glycerine.

Updated data as at 31/12/2024

FERROL CONTAINER TERMINAL, S.A.

Specific machinery for the loading and unloading of containers onto the vessel, as well as their transport and arrangement between the quay edge and the yard of the concessioned terminal:

- 2 STS Post-Panamax quay cranes (51 m outreach), electrically powered and with a maximum lifting capacity of 70 tons; it is expected that with the full development of the terminal, the number of STS cranes will increase to at least 5.

- 4 RTG tyre cranes for the concessioned terminal yard; it is expected that with the full development of the terminal, the number of RTG cranes will increase to at least 20.

- other machinery for quay-to-dock transits and inland transports: 6 yard tractor-trailer combinations (it is expected that with the full development of the terminal, the number of yard tractor-trailer combinations will increase to at least 53); and 2 reach-stackers.

Updated data as at 31/12/2024

FORESTAL DEL ATLÁNTICO, S.A.

The loading/unloading of chemical products and hydrocarbons is carried out on the pier and the new liquid bulk berth, with the connection between the ship and the pipeline on land being made by flexible hoses of different diameters, placed on a three-tonne tower crane located on the central platform on the pier and another similar installation on the new berth, a crane on a metal structure.

The installation has the following pipelines for loading / unloading of products: Methanol 8" and 12", Gasoil 10" and 12", Fuel Oil 24" and 18", Slops 14", Gasoil/Biodiesel 6" and 6", Bunker Fuel-Oil 10", Air 3", Drinking Water 2" and Water C.I.8". Caustic Soda 8".

Urea (solid bulk, by crane/hopper to truck) is unloaded at the new quay.

Updated data as at 31/12/2024

REGASIFICADORA DEL NOROESTE, S.A.

3 LNG unloading arms, with a capacity of 4,000m3/h each; the 3 of them converge in a general collector towards the 2 storage tanks; each tank has a capacity of 150,000 m3.

One of the 3 unloading arms can also act for ship loading, with a capacity (limited by the terminal) of 2,000 m3/h.

There is a 4th arm, for the ship's boil-off steam.

Updated data as at 31/12/2024

PORT OF SAN CIBRAO

ALUMINA ESPAÑOLA, S.A.

Bauxite unloading This is carried out at the main berth via a mobile unloader with an unloading capacity of 1,350 t/hour, and a conveyor belt to the bauxite hall. The lifting capacity is 36 t, and the duty cycle is 55 seconds.
A mobile crane is used to unload bauxite to support the unloading gantry, with an unloading capacity of 600 t/hour.

Liquid discharge The discharge of caustic soda at the main berth by means of a manifold and hose with 8" connection, 8" pipe. Another manifold is also available at the Auxiliary quay, with a line of 8. Both lines connect to another 16" line that goes to the storage tanks.

Alumina loading It is carried out at both berths. In the main berth by means of a mobile loader with a loading capacity of 1,200 t/hour and in the auxiliary berth with a fixed loader with a capacity equal to 600 t/hour for special vessels. The transport system is carried out with conveyor belts from the storage silos.

Loading of alumina hydrate is carried out with trucks via a mobile conveyor belt, with a loading rate of approximately 300 t/hour.

Loading of aluminium This is carried out at the auxiliary berth by means of a mobile crane with a maximum lifting capacity of 10 tonnes and forklift trucks of various capacities.

Updated data as at 31/12/2024