

# Airports

Airport specified briefings for aerodromes within ENOR/ENOB FIR

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# Airport Sceneries

## ENBR | Bergen Flesland

Simulator	Freeware/Payware	Scenery	Remark
Microsoft Flight Simulator (MSFS)	Freeware	<a href="#">WombiiActual (Flightsim.to)</a>	Our recommendation
	Payware	<a href="#">Bergen Airport (RDdesign)</a>	Incorrect runway slope
		<a href="#">ENBR Bergen Flesland Airport (Salvuz)</a>	
X-Plane (XP11+XP12)	Freeware	Default Gateway	
	Payware	<a href="#">Bergen Airport XP (Aerosoft)</a>	
Prepar3D (P3D) Flight Simulator X (FSX)	Freeware	<a href="#">Airports of Norway (AoN)</a>	
	Payware	<a href="#">Bergen Airport X (Aerosoft)</a>	

## ENGM | Oslo Gardermoen

Simulator	Freeware/Payware	Scenery	Remark
Microsoft Flight Simulator (MSFS)	Freeware	<a href="#">Oslo Airport (Flightsim.to)</a>	Our recommendation
	Payware	<a href="#">ORBX Oslo</a>	
		<a href="#">Mega Airport Oslo-Gardemoen (Aerosoft)</a>	
X-Plane (XP11+XP12)	Freeware	Default Gateway	

Simulator	Freeware/Payware	Scenery	Remark
Payware	<a href="#">Airport Oslo XP (Aerosoft)</a>	Not recommended due geo offset	
	<a href="#">ENGM - Oslo Airport Gardemoen (Taimodels)</a>		
Prepar3D (P3D) Flight Simulator X (FSX)	Freeware	<a href="#">Airports of Norway (AoN)</a>	
	Payware	<a href="#">Mega Airport Oslo X (Aerosoft)</a>	Not recommended due geo offset

## ENTC | Tromsø Langnes

Simulator	Freeware/Payware	Scenery	Remark
Microsoft Flight Simulator (MSFS)	Freeware	<a href="#">donutsdemise (Flightsim.to)</a>	Old layout/terminal
		<a href="#">artogsta (Flightsim.to)</a>	
	Payware	<a href="#">M'M Simulations (Flightsim.to)</a>	
X-Plane (XP11+XP12)	Freeware	Default Gateway	
	Payware	<a href="#">Tromsø Airport XP (Aerosoft)</a>	
Prepar3D (P3D) Flight Simulator X (FSX)	Freeware	<a href="#">Airports of Norway (AoN)</a>	
	Payware	<a href="#">Tromsø Airport X (Aerosoft)</a>	

## ENVA | Trondheim Værnes

Simulator	Freeware/Payware	Scenery	Remark
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<b>Microsoft Flight Simulator (MSFS)</b>	Freeware	<a href="#">ENVA Trondheim</a> <a href="#">Værnes (Flightsim.to)</a>	
	Payware	<a href="#">Aerosoft Værnes</a>	
<b>X-Plane (XP11+XP12)</b>	Freeware	Default Gateway	
<b>Prepar3D (P3D) Flight Simulator X (FSX)</b>	Freeware	<a href="#">Airports of Norway (AoN)</a>	
	Payware	<a href="#">Aerosoft Vaernes</a>	

# ENBR - Bergen Flesland

## Overview

Bergen Airport Flesland is the airport of the 2nd biggest city in Norway and covers most of the population in the western side of Norway. The most popular routing is flying over the mountain to Norways main airport at Oslo, but short commuter routes to Stavanger, Bodø, Trondheim, Kristiansand and other cities in Norway are common too. Bergen airport is also serving several European routes to popular vacation routes and important routes to the big hubs in central Europe.

## Available stands

### Use of stands

Area	Stands	Assigned to
Terminal	15-20 28-32	Domestic flights
	23-32	International schengen flights
	23-27	International non-schengen flights
North Remote Apron	41-46	Passenger remote stands
	47-48	Ambulance flights
South Remote Apron	1-11	Cargo & passenger remote stands
	1	ARC E+ aircraft
Helicopter Terminal	50-56	Offshore helicopter flights

Area	Stands	Assigned to
Technical Apron		Local VFR club, Airlift, Widerøe Hangar
GA Apron		General Aviation
De-Ice Platform	81-84	Business Jets

## IFR clearance

Initial contact is with Clearance Delivery, reporting callsign, stand number, and latest ATIS identification letter and QNH. If unable to follow SID, please advise on initial contact.

IFR departures with destination ENZV or ENHD shall use BEGOD as first (and only waypoint) in the route on FPL

## Push-back

Most of the terminal gates require straight-back pushes. However, a few have turn pushes. In the map overview below, you will access all information

## Map Overviews

**Terminal + Apron North (Stand 15-48)**



ATC can deviate from standard procedures if it's more optimal for the current traffic situation. If it's the case you can expect pushback instructions once the pushback clearance is given.

## Taxi

Taxi instructions include the full taxi route, however the runway intersection is not always included. If for example “holding point runway XX” is stated in your instruction, you may call ATC with “CALLSIGN, ready via ” as you approach this intersection or with the taxi request, and it may be approved if traffic permits. Make sure to double-check if you are able to use the runway length from the intersection before requesting it.

All aircraft are expected to taxi to A1 or A9 (depending of runway in use) GAs is expected to taxi to holding point A4 when runway 17 is in use Helicopters is expected to taxi to holding point A5 (RWY17) and A6 (RWY35)

## Runways

There is a single runway available at ENBR, which is runway 17/35.

Helicopters may land on taxiway Y (parallel to the runway) if there are low traffic levels and good visibility conditions.

Important note when landed:

Please vacate the runway fully. This means the whole aircraft has crossed the stop bar line. If the aircraft is partly over and not fully, the consequences are that we might have to send aircraft around or delay them as the runway is not free.

## SIDs

All SIDs are individually numbered for each runway. When receiving your clearance, know that the SID stated is only valid for one runway, in case the controller forgets to state the departure runway. RNAV SIDs at Bergen have an initial climb altitude of 6000ft. If you are unable to follow the published SIDs (old AIRAC, default or non-database freeware aircraft, etc.), request an Omni-directional departure. Omni-directional departures have their own designated SIDs as OMNI3D and OMNI3C. Although it sounds like a normal SID, it's a omni-directional departure. You will find the omni-departure procedures on the chart databases. It is important that you NEVER climb above the initial climb without ATC clearance, as STARs and SIDs cross each



other at different altitudes.

## Arrival and STARs

Before or at the initial phase of your descent, you will receive your clearance for STAR and arrival. The arrivals contain many waypoints and restrictions. We recommend preloading the expected STAR and crosschecking so the correct fixes and restrictions have been loaded before descending. This helps you and the aircraft to plan the optimum descend profile and the start of the descent. Although remember to not start on the STAR unless you have been cleared by the controller.

Do not descend until cleared by the controller. If you receive the arrival clearance or the STAR clearance, this does not mean you have been cleared for descend.

Flesland is using a “Point Merge System”, or PMS. This means that all STARs end up in a “fan” made out of waypoints (RIVIP, GODID, GILVA, NEPAM), in which pilots should always be prepared for a direct routing towards the merge waypoint, 4 in total, in order to ease the workload of approach ATC.

If traffic situation permits, you might get direct along the STAR or at the terminating/transition point. Be prepared to execute direct routings when instructed to.

Study the approach charts, and make sure to always follow altitude and speed restriction, unless otherwise instructed by ATC.

## Approach

All aircraft can expect ILS W approach, unless it has been instructed to expect another type of approach. If unable to perform the ILS approach, advise the approach controller on initial contact.

The last fix of the STAR (or Merge Point) is followed by a transition to the ILS approach for each runway. ATC often replaces these with vectoring, but always be prepared to fly the transition, and do NOT fly direct from the merge point to the Final Approach Fix. If you have no transitions available, inform ATC and request vectoring.

When you are cleared for the approach via GILVA, NEPAM, GODID or RIVIP transition, you are also cleared to continue the descent as long as the restrictions are followed. Usually, the restriction is 4000 feet or above at the transition point, but we recommend as always looking at your chart for the most precise information.

*Following approach types is available in ENBR:*

Runway	Approach types
17	ILS W, LOC W, RNP Z, RNP (AR) E/N/S/W, VOR Helicopter only: ILS Y, LOC Y, RNP 139
35	ILS W, LOC W, RNP Z, RNP (AR) E/N/W, VOR Helicopter only: ILS Y, LOC Y, RNP 043

Unless other instructions have been given from ATC, it's expected that pilots maintains minimum 160 KT IAS until 4 NM from THR. ATC shall be informed if you are unable to comply with this.

Notes:

1. RNP (AR) approaches are only to be considered to be used at a low-traffic level. RNP Z is available on request.
2. Visual approaches are also available and shall not fly below 2000 feet until established on final. Expect direct to respective points in the visual approach chart when planning for visual approach.

## Direct routings

In Norway, direct routings are often used. Both arriving and departing traffic should be prepared to fly direct the end of SIDs, STAR Merge Points, and airspace border fixes. Make sure you have your filed route and waypoint page available to quickly accommodate direct routings.

## Communications

You can always check online positions and sectors by visiting [vatglasses.uk](https://vatglasses.uk)

ENBR\_ATIS – Flesland ATIS – 125.250

ENBR\_DEL – Flesland Delivery – 123.400

ENBR\_GND – Flesland Ground – 121.900

ENBR\_TWR - Flesland Tower - 119.100

ENBR\_W\_APP - Flesland Approach West - 121.000

ENBR\_E\_APP - Flesland Approach East - 125.000

ENBR\_D\_APP - Flesland Director - 118.850

ENSV\_CTR - Polaris Control (Stavanger ACC) - 120.650

ENSV\_N\_CTR - Polaris Control (Stavanger ACC north) - 124.700

ENOR\_CTR - Polaris Control (Bandbox) - 125.500

ENOR\_S\_CTR - Polaris Control (Bandbox South/Covering ENOS+ENSV AoR) - 121.550

ENOR\_SC\_CTR - Polaris Control (Bandbox South Central/Covering

ENOS+ENSV+ENBD\_S - 134.515

ENRC\_S\_CTR - Flesland Tower (Bodø Remote Tower Center) - 118.425

Note: Other sectors and frequencies could be used during major events for a more sufficient sector splits in Polaris ACC

# ENCN - Kristiansand

# Kjevik

## Overview

Welcome to Kristiansand! The airport is located just south of Oslo Gardermoen together with Torp on the south easterly coast of Norway. Kjevik has several flights to the nordic and European destinations.

## Stands

Apron	Suggested Parking
Stand 10	International (ARC D)
Stand 12-11	International (ARC C)
Stand 17-13	Domestic Flights (ARC C)
Stand 18	Business jets
Stand 19	Business jets / Cargo (ARC D - Max wingspan 42 M)
Apron S (31-38)	GA
Apron O (42-48)	GA

## De-Ice

There is only one de-icing platform at Kjevik. The de-icing platform is outside of the manoeuvring area. Pilots are reminded to exercise special caution when taxiing.

Platform	Restriction
De-Ice	One ARC C or D ACFT

Engine Testing Area is the same area as de-icing. Business jets may use De-ice East for parking.

## IFR clearance

Initial contact is with Kjevik Tower, reporting callsign, stand number, and latest ATIS identification letter and QNH.

## Push-back

All pushback is executed straight back from the stand if it's not specified by the controller on pushback clearance.

## Taxi

Taxi instructions at Kjevik are given by Tower. When runway 03 is in use, you will get taxi to A. If runway 21 is in use taxi will be given to B and then back-track.

TWY C and G are only to be used during day light, as these taxiways do not have taxiway lighting. Also not that these are ARC B categorised.

## Runways

Runway (03/21) has a runway length of approximately 2000 meters. During runway 03 operation aircrafts will get taxi to holding-point A via Y. During 21 operations you will get instructions to back-track the runway from B.

## SIDs

All SIDs are individually numbered for each runway. When receiving your clearance, know that the SID stated is only valid for one runway, in case the controller forgets to state the departure runway.

All departures have an initial climb to 5000FT.

If you are unable to follow the published SIDs (old AIRAC, default or non-database freeware aircraft, etc.), request an Omni-directional departure.

It is important that you NEVER climb above the initial climb without ATC clearance, as STARs and SIDs cross each other at different altitudes.

## STARs

Study the approach charts, and make sure to always follow altitude and speed restriction, unless otherwise instructed by ATC.

STARs are available from AMSEV, LANTI, OSVAL, RASVI, TIPSO, PEVEB (RWY 03/21)

## Approach

Torp has and ILS, LOC and RNP approach for both runways. Visual approaches are also available and should not be flown below the ILS glide path or PAPI glide slope.

## Communications

You can always check online positions and sectors by visiting [vatglasses.uk](https://vatglasses.uk)

Main logon	Frequency	Position
ENCN_ATIS	124.475	Kjevik ATIS
ENCN_TWR	118.100	Kjevik Tower
ENCN_APP	119.950	Kjevik Approach
ENOS_CTR	127.250	Polaris Control (Oslo ACC)
ENOS_8_CTR	134.350	Polaris Control (Oslo ACC Sector 8)
ENOR_S_CTR	121.550	Polaris Control (Bandbox)
ENOR_SC_CTR	134.515	Polaris Control (Bandbox South Central/ENSV+ENOS+ENBD_S)
ENOR_CTR	125.500	Polaris Control (Bandbox)

# ENGM - Oslo Lufthavn

## Available stands

## Overview

Oslo Airport, Gardermoen is the main airport of the Norwegian capital Oslo, and the main international airport of Norway. Having earlier served as a secondary airport, air force base and charter airport, Gardermoen opened as the new main airport of Oslo on October the 8th 1998, replacing the now closed Fornebu Airport. Today, it has over 22 million passengers passing through each year, with 162 destinations worldwide, from short domestic flights to intercontinental long hauls.

## CODE F / A380

All procedures are also well shown on AD 2 ENGM 2-3 (Aerodrome Ground Movement Chart - Code F)

Runway 01L/19R will normally be used for departure and arrivals.

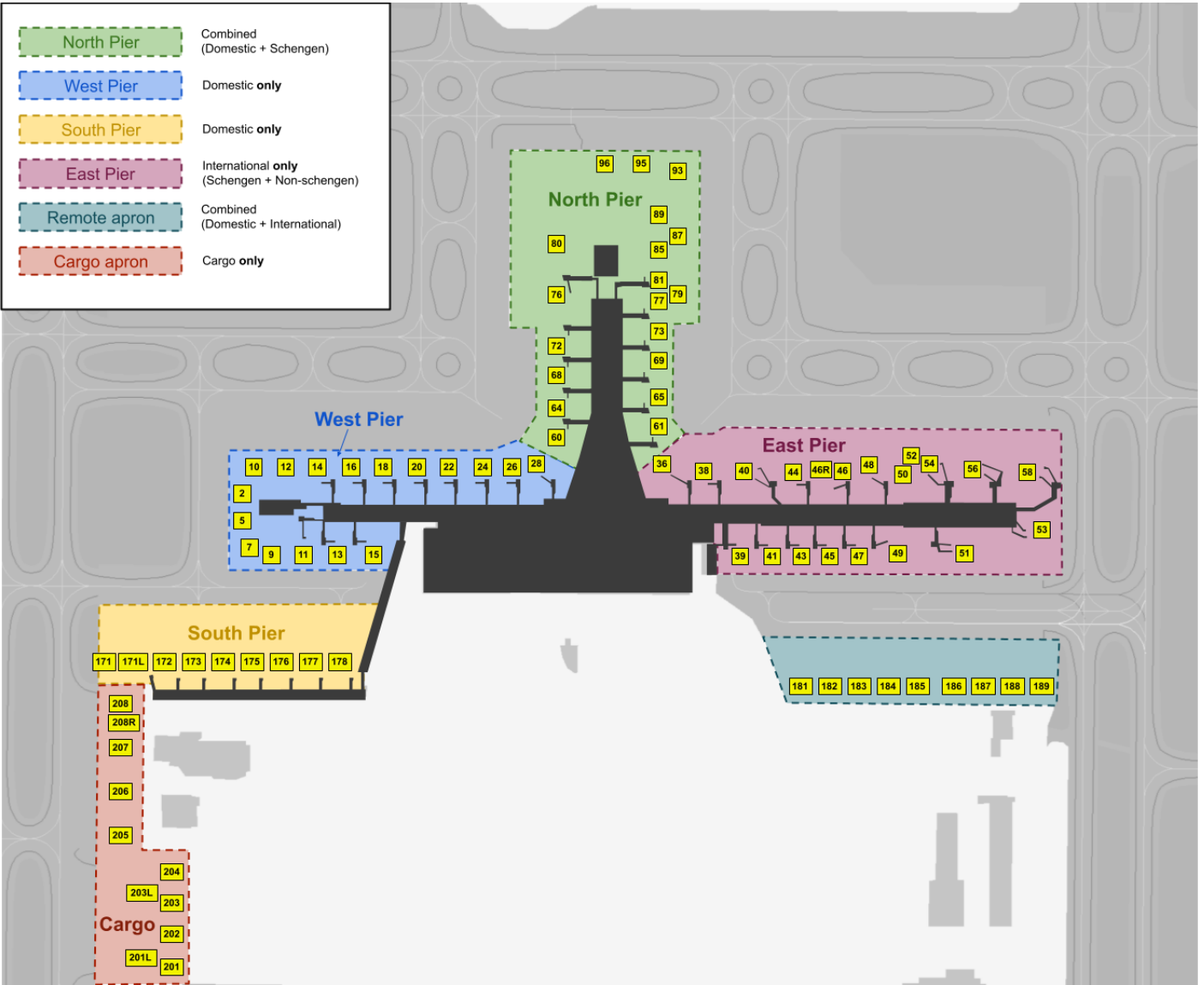
Following stands can be used for CODE F operations.

Stand	Restrictions taxi	Pushback procedures
52	Shall taxi via TWY W and J1 to stand	Towing/Pushback is accepted on J between J1 and S to postion 19.
80	Shall taxi via TWY Y and D1	Towing/Pushback is accepted on D between D1 and P to position 31.
171L	Shall taxi via TWY K	Push back to startposition 53 facing West.

Stand	Restrictions taxi	Pushback procedures
201L	TWY N can be used for CODE F	Start-up position 63 facing south or 64 facing north as instructed by GND.
203L	TWY N can be used for CODE F	Start-up position 63 facing south or 64 facing north as instructed by GND.

- Taxiways N, M, P, V, S, T are also approved for A380 movements

## Stands



Pier/Apron	Stands	Assigned to
West Pier	2-28	Domestic Only



Pier/Apron	Stands	Assigned to
East Pier	36-44	Schengen only
	40-53	Non-schengen only
North Pier	60-96	Domestic & Schengen Only
South Pier	171-178	Domestic mainly
Remote apron	181-189	International mainly
Cargo Apron	201-208	Cargo only
GA Apron	313-332	General aviation

## IFR clearance

Initial contact is with Clearance Delivery, reporting callsign, stand number, and latest ATIS identification letter and QNH.

### Requesting De-Icing

If you require de-ice prior to your departure, request with your departure clearance request.

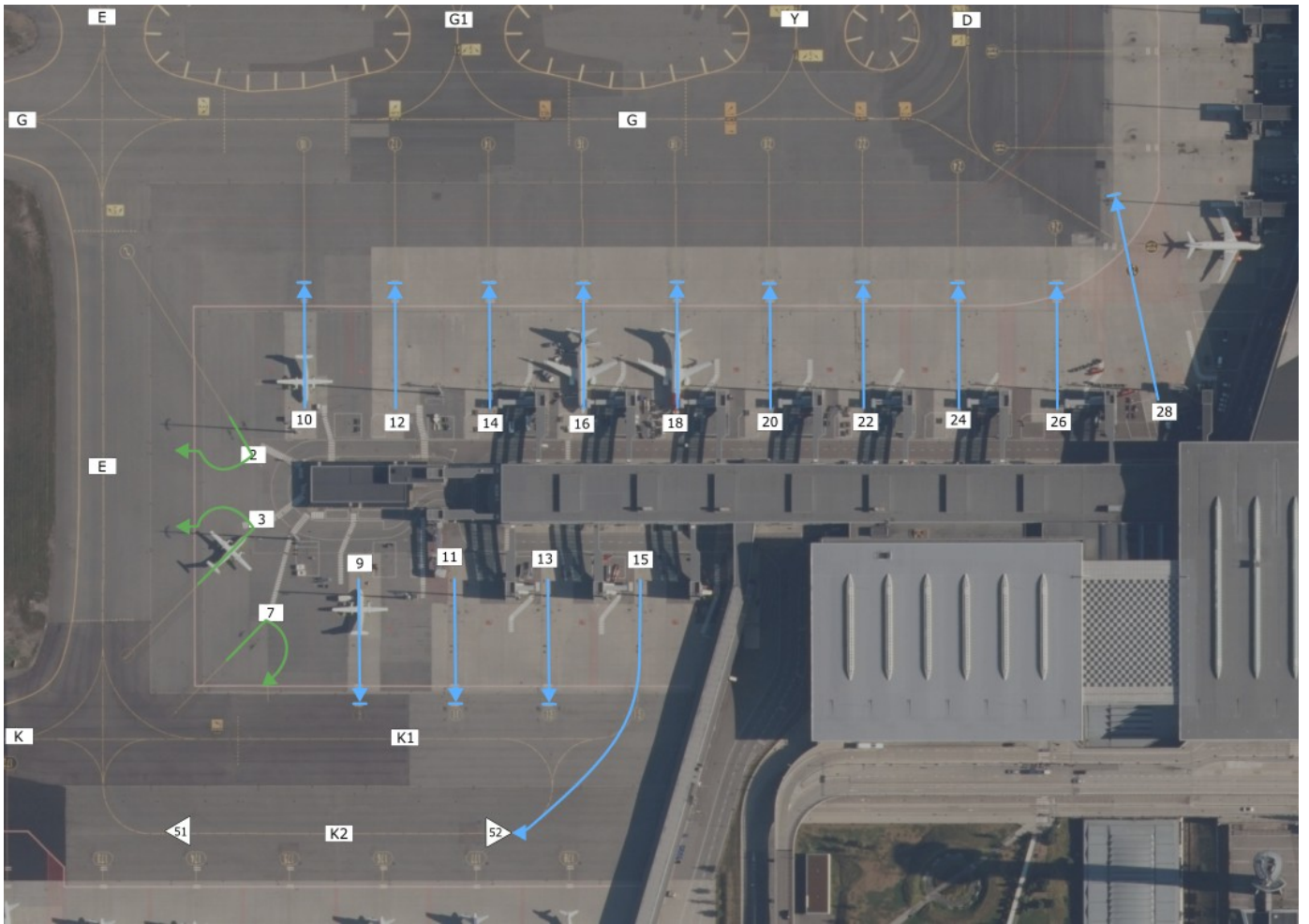
**DCL:** Include clearance request with Remark REQ DEICE  
**Voice:** Upon initial contact with GARDEMOEN DELIVERY, advise if de-ice is required.

## Push-back

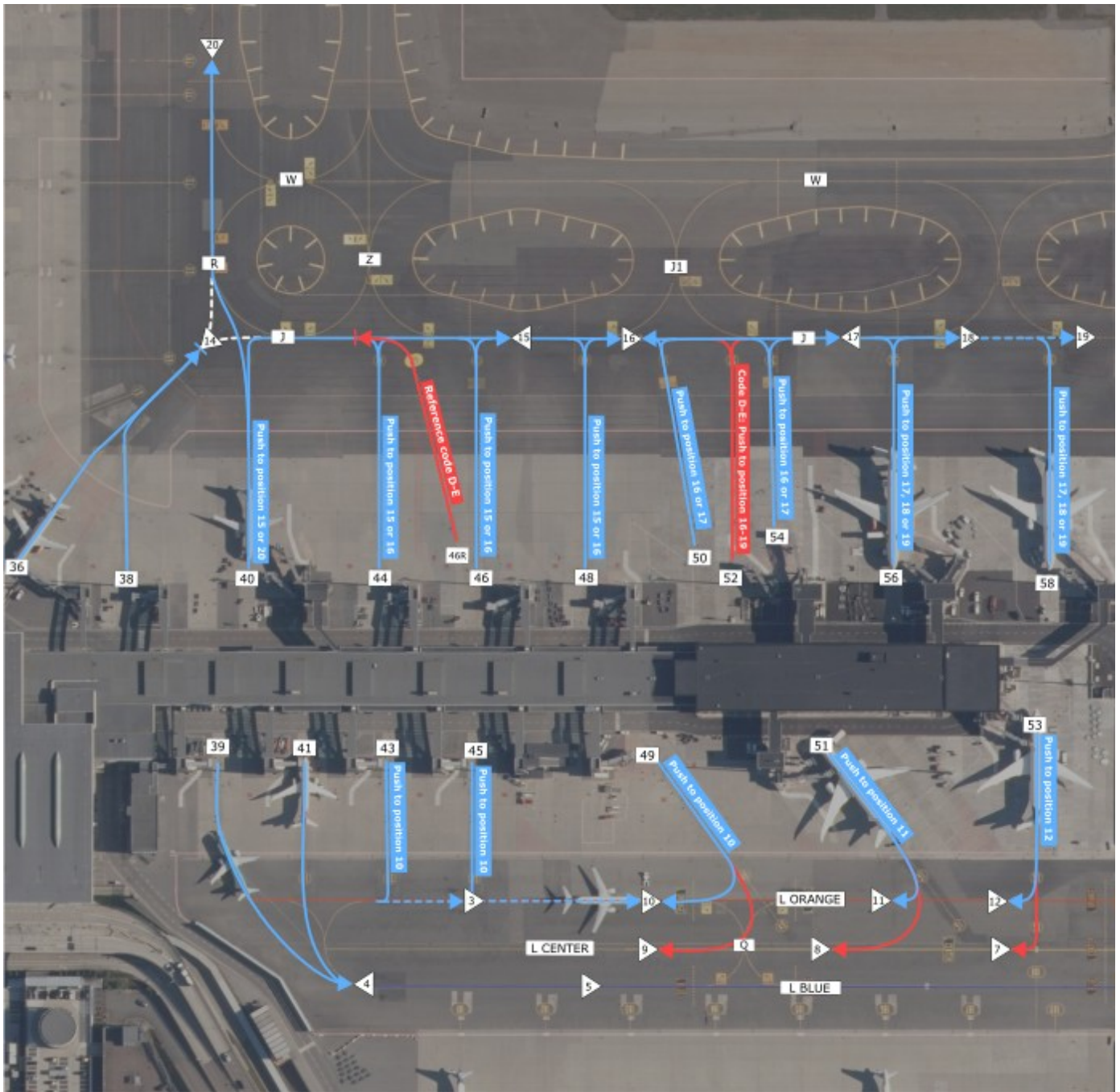
Most of the terminal gates requires straight-back pushes, however a few have turn-pushes. Please have a look on the maps below to see how you should perform your push from the stand. You can click on the images to have a closer look.

### Pushback maps

Stand 1-28 | Pier West

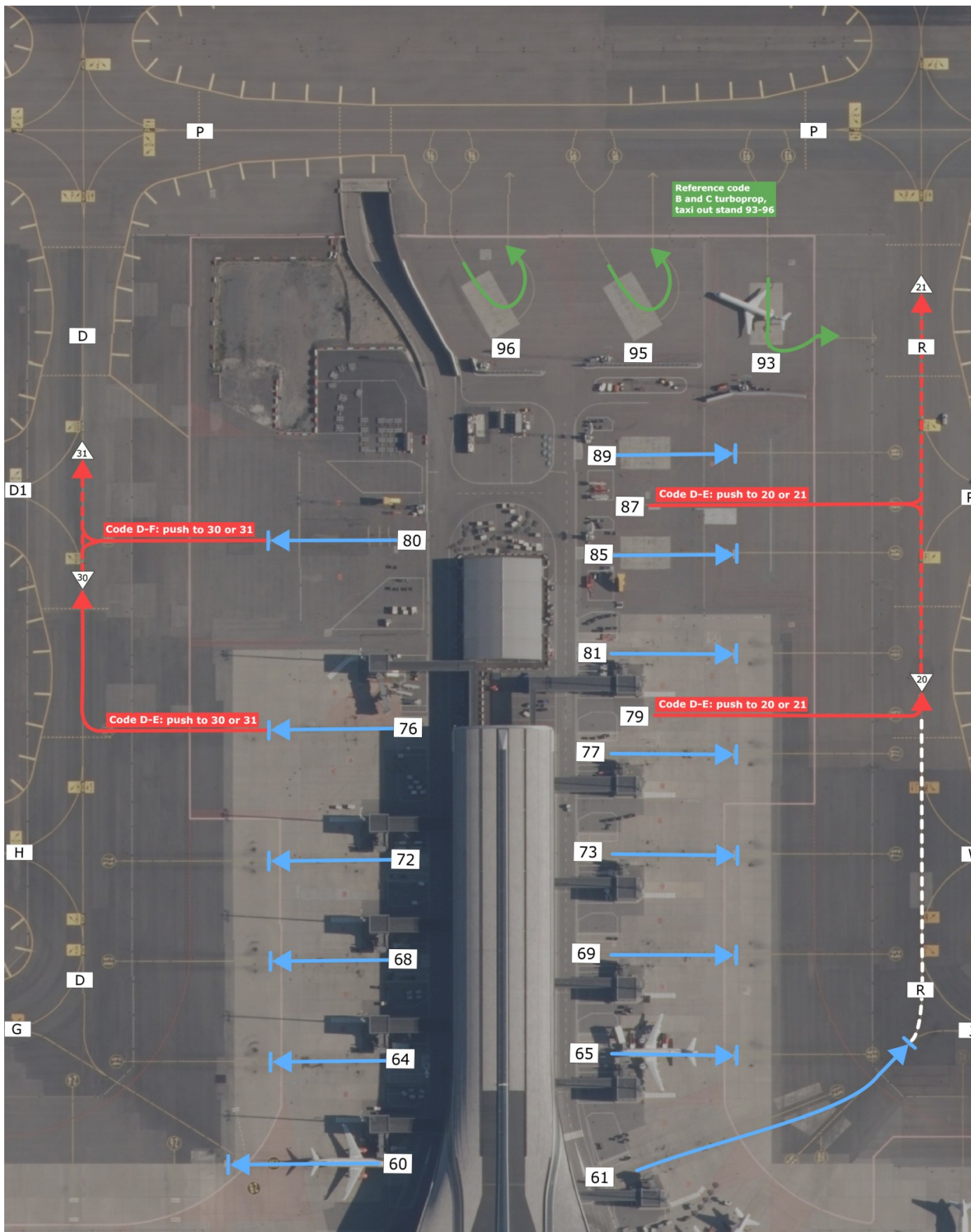


**Stand 36-58 | Pier East**

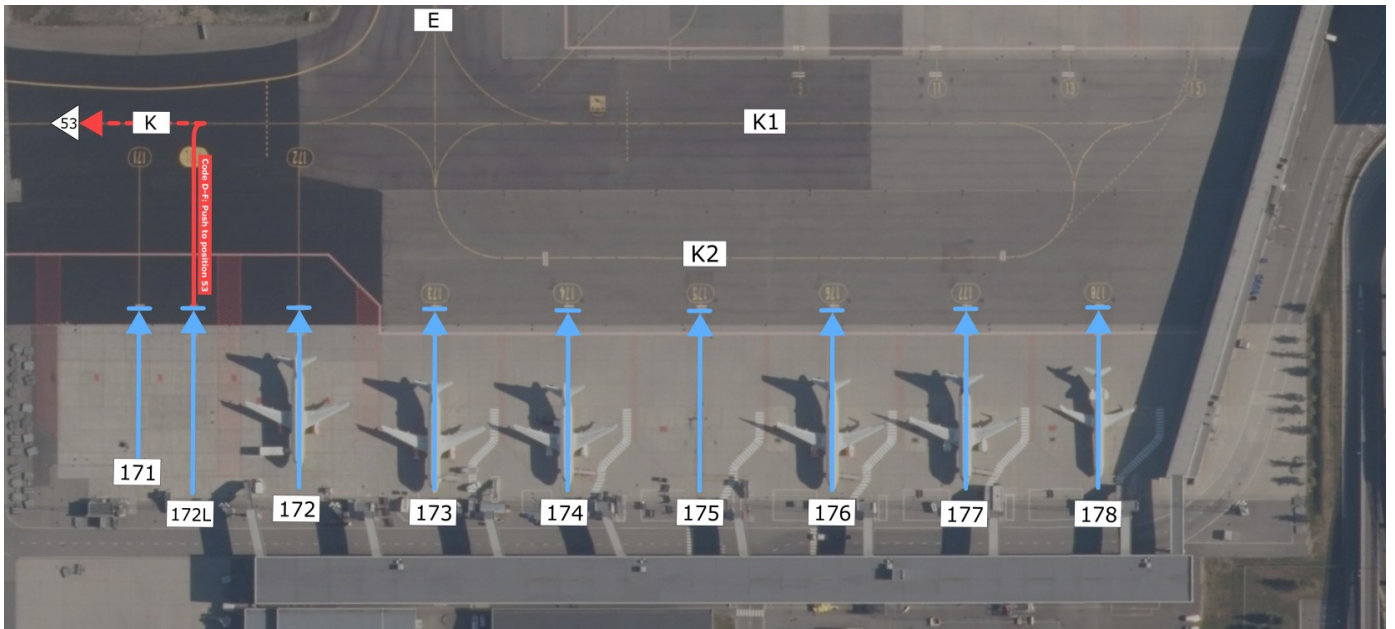


**Stand 60-96 | Pier North**

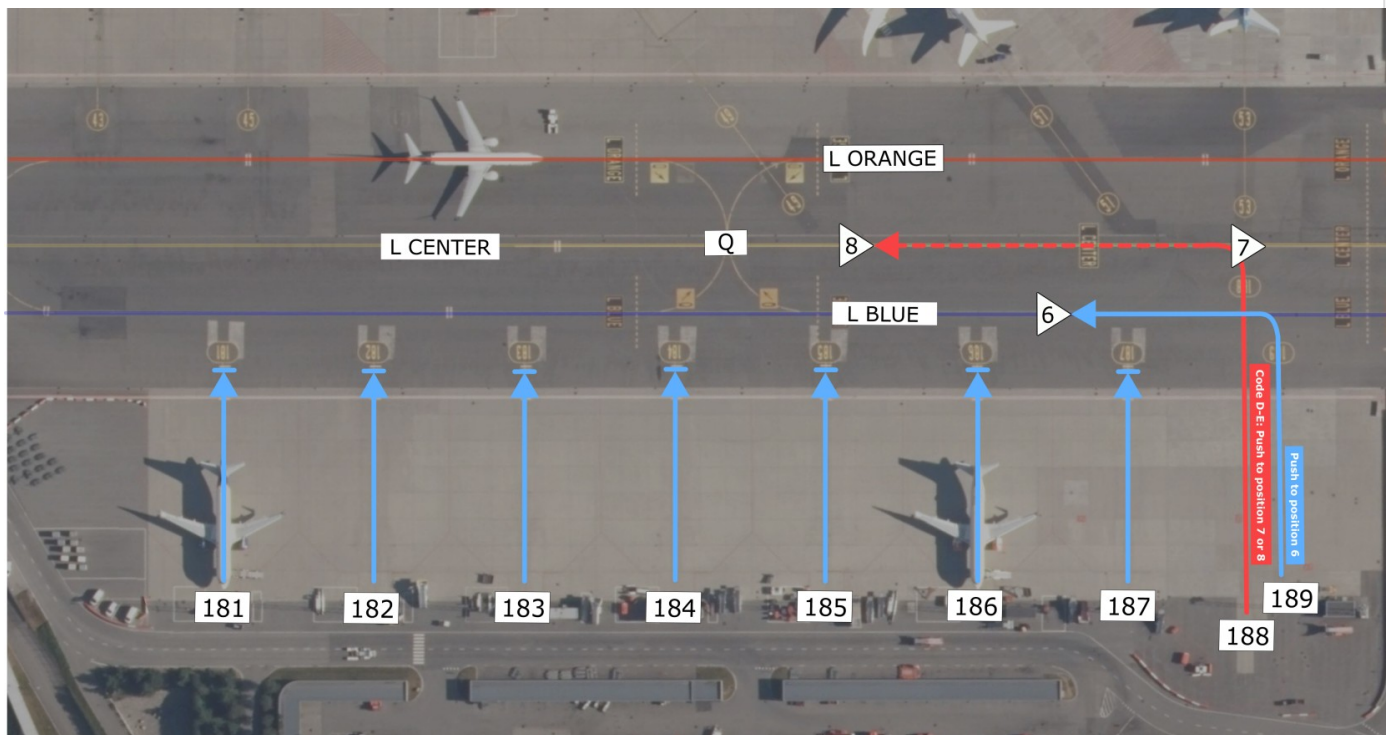




**Stand 171-178**



## Stand 181-189



## Overview





Given that you've parked according to the paragraph describing the Use of stands, usually the eastern runway (19L/01R) is used for international departures/arrivals, and the western (19R/01L) for domestic departures/arrivals. This however is not a set rule, and runways are organized to accommodate high traffic loads. The western runway (19R/01L) has a TORA of 3600m, the eastern runway (19L/01R) has a TORA of 2950m.

During winter operations the airport normally operates with a segregated runway configuration, landing on 01R/19R and departing 01L/19L.

Heavy aircraft may request to use the western runway due to its length, make this request as you request your IFR clearance.

## SIDs

All SIDs are individually numbered for each runway. When receiving your clearance, know that the SID stated is only valid for one runway, in case the controller forgets to state the departure runway. RNAV SIDs at Gardermoen has an initial climb altitude of 7000ft. If you are unable to follow the published SIDs (old AIRAC, default or non-database freeware aircraft, etc.), state so when requesting clearance and you will receive an alternative departure instructions depending on assigned runway and aircraft type.

## STARs

Oslo airport Gardermoen is one of the first airports in Europe to use a "Point Merge System", or PMS. This means that all STARs end up in a "fan" made out of waypoints (study the STAR charts for Gardermoen), in which pilots should always be prepared for a direct routing towards the merge waypoint, 4 in total, in order to ease the workload of approach ATC. All STARs are valid for both parallel runways, 19L/R or 01L/R. Expect Approach ATC to inform you of which runway to expect.

The last fix of the STAR (or Merge Point) is followed by a transition to the ILS approach for each runway. ATC often replace these with vectoring, but always be prepared to fly the transition, and do NOT fly direct from the merge point to the Final Approach Fix. If you have no transitions available, inform ATC and request vectoring. Study the approach charts, and make sure to always follow altitude and speed restriction, unless otherwise instructed by ATC

## Approach

The default approach to Gardermoen is ILS for all runways. All runways are CATIII equipped. In case of low visibility conditions, only the right runway is used for landing (01R or 19R). RNP approaches are available on request. Visual approach is not approved for any jet aircraft, only props may request visual approach.

## Direct routings

In Norway, direct routings are often used. Both arriving and departing traffic should be prepared to fly direct the end of SIDs, STAR Merge Points, and airspace border fixes. Make sure you have your filed route and waypoint page available to quickly accommodate direct routings.

## Communications

You can always check online positions and sectors by visiting [vatglasses.uk](https://vatglasses.uk)

Main logon	Frequency	Position
ENGM_A_ATIS	126.125	Gardermoen Arrival ATIS
ENGM_D_ATIS	127.150	Gardermoen Departure ATIS
ENGM_W_DEL	121.680	Gardermoen Delivery West
ENGM_E_DEL	121.930	Gardermoen Delivery East
ENGM_W_GND	121.605	Gardermoen Ground West
ENGM_E_GND	121.905	Gardermoen Ground East
ENGM_P_GND	121.730	Gardermoen Ground Planner
ENGM_W_TWR	118.300	Gardermoen Tower West (01L/19R)
ENGM_E_TWR	120.100	Gardermoen Tower East (01R/19L)
ENGM_W_APP	120.450	Oslo Approach West
ENGM_E_APP	118.475	Oslo Approach East
ENGM_D_APP	136.400	Oslo Director



Main logon	Frequency	Position
ENGM_F_APP	128.900	Oslo Final
ENOS_CTR	127.250	Polaris Control (Oslo ACC South)
ENOS_N_CTR	120.375	Polaris Control (Oslo ACC North)
ENOR_S_CTR	121.550	Polaris Control (Bandbox South/Covering ENOS+ENSV)
ENOR_SC_CTR	134.515	Polaris Control (Bandbox South Central/Covering ENOS+ENSV+ENBD_S)
ENOR_CTR	125.500	Polaris Control (Bandbox)
ENRC_S_CTR	118.425	Gardemoen Tower (Bodø Remote Tower Center)

Note: Other sectors and frequencies could be used during major events for a more sufficient sector splits in Polaris ACC

# ENTC - Tromsø Langnes

## Overview

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Tromsø is the biggest city in Northern Norway and is often called as “the Nordic answer to Paris”. The airport is located 3 kilometres from the city centre and is an important hub for the commuter network in Northern Norway. It also has international destinations within Europe. The surrounding area is spectacular and the approach into Tromsø is known for its steep approach down to the runway. Are you up for the challenge?

## Stands

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### Available stands

Normal stand allocation is as followed:

Domestic: 21-25

International: 15-21

GA parks on the apron east of the runway

## IFR clearance

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Initial contact is with Tromsø Tower, reporting callsign, stand number, and latest ATIS identification letter and QNH.

In major events, an own dedicated delivery position will be online to issue IFR clearances.

## Push-back

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All pushback is executed straight back from the stand if it's not specified by the controller on pushback clearance.

## Taxi

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Taxi instructions at Tromsø include the full taxi route, however, the runway intersection is not always included. If for example “holding point runway XX” is stated in your instruction, you may call ATC with “CALLSIGN, ready via ” as you approach this intersection, and it may be approved if traffic permits. Make sure to double-check if you are able to use the runway length from the intersection before requesting it.

## Runways

The runway (18/36) has a runway length of approximately 2400 meters. Medium and heavy aircraft are expected to backtrack on runway 18 for full length. Heavy aircraft may request a backtrack for full length on runway 36.

## SIDs

All SIDs are individually numbered for each runway. When receiving your clearance, know that the SID stated is only valid for one runway, in case the controller forgets to state the departure runway.

All departures have an initial climb to FL90.

If you are unable to follow the published SIDs (old AIRAC, default or non-database freeware aircraft, etc.), request an Omni-directional departure.

It is important that you NEVER climb above the initial climb without ATC clearance, as STARs and SIDs cross each other at different altitudes.

## STARs

Study the approach charts, and make sure to always follow altitude and speed restriction, unless otherwise instructed by ATC.

STAR is available from LOMVI, KIIKA, DIBDI, AMIMO, GILGU, SJA (NON-RNAV, RWY 18), LURAP (NON-RNAV, RWY 36)

## Holdings & rerouting during event

On major events such as Fly and See Santa, you have to expect holding and reroutings. We kindly ask and expect pilots to know the aircraft they execute rerouting and holdings in the specific aircraft. There are limited published holds. Expect to hold

as published if there is a published hold. If not, holding instructions will be given.

## Approach

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Tromsø has an ILS, LOC and RNP approach for both runways.

The glide path is steeper than normal, so make sure to be established on a manageable speed before starting the approach. The Glide path angle is 4 degrees (7%)

## Direct routings

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In Norway, direct routings are often used. Both arriving and departing traffic should be prepared to fly direct to the end of SIDs, STAR Merge Points, and airspace border fixes. Make sure you have your filed route and waypoint page available to quickly accommodate direct routings. Pilots unable to fly direct, should make a comment regarding this in their Flight-Plan Remarks section.

# ENTO - Torp Sandefjord

## Overview

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Welcome to Sandefjord! Home of the most flown domestic routes by Widerøe together with Bergen. The airport is located just south of Oslo Gardermoen together with Kjevik on the south easterly coast of Norway. Sandefjord has also several flights to the nordic and European destinations.

## Stands

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Stands	Section
1-2	Combined
3-5	Domestic
10-12	Schengen
13-15	Non-schengen/International
32-34	GA
N, S	Deice

## IFR clearance

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Initial contact is with Torp Ground, reporting callsign, stand number, and latest ATIS identification letter and QNH.

## Push-back

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All pushback is executed straight back from the stand if it's not specified by the controller on pushback clearance.

## Taxi

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Taxi instructions at Torp are given by Ground. When runway 36 is in use, you will get taxi to W1. If runway 18 is in use taxi will be given by Ground to either W2 for crossing or W3 for back-track. Further taxi instructions will be given by Torp Tower.

## Runways

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Runway (18/36) has a runway length of approximately 2800 meters. During runway 18 operation aircrafts will get taxi to holding point A via C or instructions to back-track the runway.

## SIDs

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All SIDs are individually numbered for each runway. When receiving your clearance, know that the SID stated is only valid for one runway, in case the controller forgets to state the departure runway.

All departures have an initial climb to 4000FT.

If you are unable to follow the published SIDs (old AIRAC, default or non-database freeware aircraft, etc.), request an Omni-directional departure.

It is important that you NEVER climb above the initial climb without ATC clearance, as STARs and SIDs cross each other at different altitudes.

## STARs

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Study the approach charts, and make sure to always follow altitude and speed restriction, unless otherwise instructed by ATC.

STARs are available from BAMIX, VATEX, REPKU, ESOSI, ULMUG (RWY 18/36)

## Approach

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Torp has and ILS, LOC, RNP and VOR approach for both runways. Visual approaches are also available if the weather criterias are met.

## Communications

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You can always check online positions and sectors by visiting [vatglasses.uk](https://vatglasses.uk)

Main logon	Frequency	Position
ENTO_ATIS	119.075	Torp ATIS
ENTO_GND	126.175	Torp Ground
ENTO_TWR	118.650	Torp Tower
ENTO_APP	134.050	Farris Approach
ENTO_D_APP	124.350	Farris Director/VFR
ENOS_CTR	127.250	Polaris Control (Oslo ACC South)
ENOS_N_CTR	120.375	Polaris Control (Oslo ACC North)
ENOR_S_CTR	121.550	Polaris Control (Bandbox South/Covering ENOS+ENSV)
ENOR_SC_CTR	134.515	Polaris Control (Bandbox South Central/Covering ENOS+ENSV+ENBD_S)
ENOR_CTR	125.500	Polaris Control (Bandbox)
ENRC_S_CTR	118.425	Gardemoen Tower (Bodø Remote Tower Center)

# ENVA - Trondheim

## Værnes

### Overview

Welcome to Trondheim! Home of the most flown domestic city pair together with Oslo. Also the home of "Hell", great moustache styling and rock. But do not forget the airport. It is the 3rd busiest airport in Norway as it is a domestic hub for commuters to the smaller airports in Norway. Trondheim host also several flight towards nordic and European destinations.

### Stands

Stands	Assigned to
23-29	Commuter Domestic
30-37	Domestic flights
40-44	International flights

Apron	Assigned to
M1	De-Ice Pad
M2	GA
M3	GA Ambulance flights
M4-M6	Military parking

### IFR clearance



## Push-back

## Pushback maps

\*Click on image to expand it's size

ATC can deviate from standard procedures if it's more optimal for the current traffic situation. If it's the case you can expect pushback instructions once the pushback clearance is given.

## Taxi

Taxi instructions normally contains the full taxi route, however the runway intersection is not always included. If for example “holding point runway XX” is stated in your instruction, you may call ATC with “CALLSIGN, ready via ” as you approach this intersection, and it may be approved if traffic permits. Make sure to double-check if you are able to use the runway length from the intersection before requesting it.

## SIDs

All SIDs are individually numbered for each runway. When receiving your clearance, know that the SID stated is only valid for one runway, in case the controller forgets to state the departure runway. RNAV SIDs (including OMNI-departure) has an initial climb altitude of 6000 ft. If you are unable to follow the published SIDs (old AIRAC, default or non-database freeware aircraft, etc.), request an Omni-directional departure. It is important that you NEVER climb above the initial climb without ATC clearance, as STARs and SIDs cross each other at different altitudes.

## STARs

Trondheim Værnes is using a “Point Merge System”, or PMS for all arrivals. This means that all STARs end up in a “fan” made out of waypoints (study the STAR charts), in which pilots should always be prepared for a direct routing towards the merge waypoint, 4 in total, in order to ease the workload of approach ATC.

The last fix of the STAR (or Merge Point) is followed by a transition to the ILS approach for each runway. ATC often replace these with vectoring, but always be prepared to fly the transition, and do NOT fly direct from the merge point to the Final Approach Fix. If you have no transitions available, inform ATC and request vectoring. Study the approach charts, and make sure to always follow altitude and speed restriction, unless otherwise instructed by ATC

## ⚠️ Recommended descend restrictions

All STARs to Trondheim are by standard giving a descend profile, based on flying along the STAR throughout. In almost all situations, a DCT to STAR merge point will be given. Therefore a set of recommended altitudes at given points is added to charts and text pages to guide and give an optimum descend profile to the approach. We highly recommend programming this in FMS/FMC in good time prior to your top of descend and pre-program your expected STAR

### Runway 09

Designator	Recommended Altitude
<b>MIVSO</b> xL	Cross VA414 at 7000 ft
<b>NELSU</b> xL	Cross VA414 at 7000 ft
<b>NUPGO</b> xL	Cross TUDLU at 7000 ft
<b>VEVOD</b> xL	Cross NEDIV at 7000 ft

### Runway 27

Designator	Recommended Altitude
<b>MIVSO</b> xL	Cross ADEXA at FL 90
<b>NELSU</b> xL	Cross ADEXA at FL 90
<b>NUPGO</b> xL	Cross ALENU at FL 90
<b>VEVOD</b> xL	Cross ADEXA at FL 90

## Approach

The default approach to Værnes is ILS for all runways. RNAV or visual approaches are available on request.

Visual approach is usually flown via MALOV (Runway 09) and TUSMO (Runway 27).

## Direct routings

In Norway, direct routings are often used. Both arriving and departing traffic should be prepared to fly direct the end of SIDs, STAR Merge Points, and airspace border fixes. Make sure you have your filed route and waypoint page available to quickly

accommodate direct routings.

## Communications

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You can always check online positions and sectors by visiting [vatglasses.uk](https://vatglasses.uk)

ENVA\_ATIS - Værnes ATIS - 127.550

ENVA\_GND - Værnes Ground - 121.600

ENVA\_TWR - Værnes Tower - 119.400

ENVA\_APP - Værnes Approach - 118.600

ENVA\_D\_APP - Værnes Director - 119.150

ENBD\_CTR - Polaris Control (Bodø ACC) - 126.450

ENBD\_S\_CTR - Polaris Control (Oslo ACC south) - 125.700

ENBD\_C\_CTR - Polaris Control (Bodø ACC central split) - 118.550

ENOR\_SC\_CTR - Polaris Control (Bandbox South Central/ENSV+ENOS+ENBD\_S) - 134.515

ENOR\_CTR - Polaris Control (Bandbox) - 125.500

ENRC\_N\_CTR - Værnes Tower (Bodø Remote Tower Center) - 118.325

# ENZV - Stavanger/Sola

## Overview

Welcome to Stavanger! The airport is located just outside the city south of the western coast of Norway.

## Stands

Stands	Section for
17-24	Domestic
14-16	Combined
7-13	International
45-47	GA
50-64	Helicopter
25-27, 30-36, 301-303	Cargo/GA

## De-Ice

When requesting startup, advise ATC if de-icing is required. This must be given over radio transmission only, not via DCL.

Platform	Restriction
TWY P	Not available for ARC D or E
TWY Q	One ARC D or E ACFT

When de-icing compleated and ready, contact ATC for taxi clearence.

## IFR clearance

Initial contact is with Sola Ground, reporting callsign, stand number, and latest ATIS identification letter and QNH.

### Flight level allocations

Flights from ENZV to ENBR & ENSO are to file **EVEN** flight levels below FL175.

## SIDs

All SIDs are individually numbered for each runway. When receiving your clearance, know that the SID stated is only valid for one runway, in case the controller forgets to state the departure runway.

Type	Initial climb
SID	6000 ft
OMNI-SID	5000 ft
SID (CAT H)	2000 ft

## Push-back

Aircraft will be pushed to different disconnection positions (DPSN) based on stand and aircraft type:

- Standard pushback from stand 7-12 and 24 is a "long push and start" which implies straight pushback. Adjacent TWY will be closed for aircraft movement.
- Standard pushback from stand 13-22 is:
  - DPSN 1 (ARC B-C): Straight push and start
  - DPSN 2 ((ARC C-D) includes, but is not limited to A21N, 321, B752/3, MD83.): A "Long push and start" which implies straight pushback. Adjacent TWY will be closed for aircraft movement.
- Standard pushback from stand 7-19 ((ARC D-E) includes, but is not limited to A-332/3/8/9, A342/3/5/6, A359/1, B744/8, B762/3/4, B772/L/3/W, B788/9/J) is a "long push and start to align with TWY L". This implies that ACFT will be pushed to the centerline of TWY L, facing towards TWY R.

*For detailed description, see AD 2 ENZV 2-4: "Push Back Procedures" in the AIP.*

## Taxi



Taxi instructions include the full taxi route however, the runway intersection is not always included. If for example “holding point runway XX” is stated in your instruction, you may call ATC with;

“CALLSIGN, ready via A1

as you approach this intersection or with the taxi request, and it may be approved if traffic permits. Make sure to double-check if you are able to use the runway length from the intersection before requesting it.

When taxiing to holding point for runway 36, you will need to cross runway. Make sure to cross the runway only if you have been cleared to by ATC

Intersection departure from runway 10/28 when departing runway 18/36 is available upon request

## Runways

**Runway 18/36** is the main runway at Stavanger, Sola (ENZV). It will be used for all fixed-wings departures and arrivals as a favourable runway. If crosswind component exceeds aircraft limits, RWY 10/28 will be used.

### Runway 18

Intersection	TORA (m)
TWY G1	2539
TWY A1	1830

### Runway 36

Intersection	TORA (m)
TWY E1	2435
RWY 10/28	1758

**Runway 10/28** is used mainly for helicopter departure and arrivals. If strong crosswinds or low visibility, helicopters will land on RWY 18/36. The runway can also be used for departures and arrivals for fixed wing ACFT for operational reasons (crosswind, maintainainance etc.)

## Runway 10

Intersection	TORA (m)
TWY D	1646
TWY H	1112

## Runway 28

Intersection	TORA (m)
TWY F1	2193
TWY G5	1479
TWY H	961
TWY D	456

If you are unable to follow the published SIDs (old AIRAC, default or non-database freeware aircraft, etc.), request an Omni-directional departure.

It is important that you NEVER climb above the initial climb without ATC clearance, as STARs and SIDs cross each other at different altitudes.

## STARs

Study the approach charts, and make sure to always follow altitude and speed restriction, unless otherwise instructed by ATC.

STARs are available from BEGOD, IDIDI, KUNEM, RIVEX, ROPNO, UNBUD and UPDER for all runways.

Own CAT H STARs are available from EVOLO and UTERU for RWY 10, 18 & 36.

## Approach



Sola has and ILS, LOC and RNP approach for both runways. Visual approaches are also available and should not be flown below the ILS glide path or PAPI glide slope.

## Communications

You can always check online positions and sectors by visiting [vatglasses.uk](https://vatglasses.uk)

Main logon	Frequency	Position
ENZV_ATIS	126.000	Sola ATIS
ENZV_TWR	121.750	Sola Ground
ENZV_TWR	118.350	Sola Tower
ENZV_APP	119.400	Sola Approach
ENZV_A_APP	119.950	Sola Arrival
ENSV_CTR	120.650	Polaris Control (Stavanger ACC)
ENOR_S_CTR	121.550	Polaris Control (Bandbox South/ENSV+ENOS)
ENOR_SC_CTR	134.515	Polaris Control (Bandbox South Central/ENSV+ENOS+ENBD_S)
ENOR_CTR	125.500	Polaris Control (Bandbox)