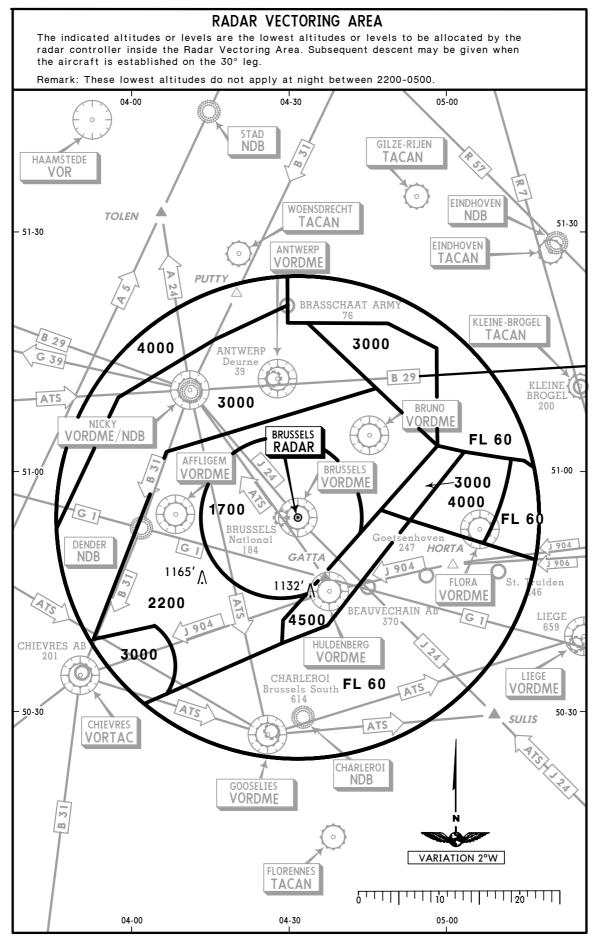
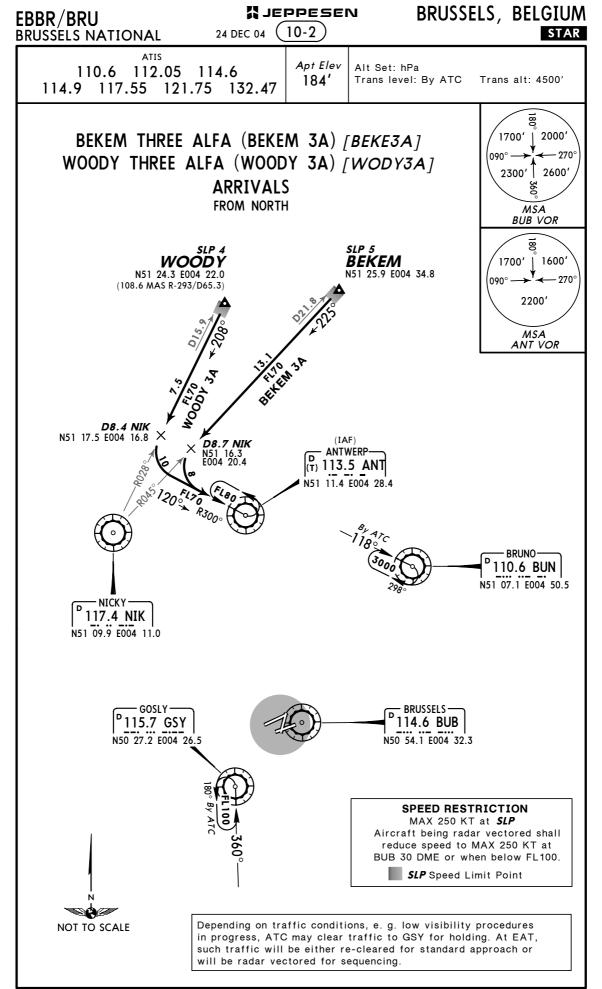
MJEPPESEN

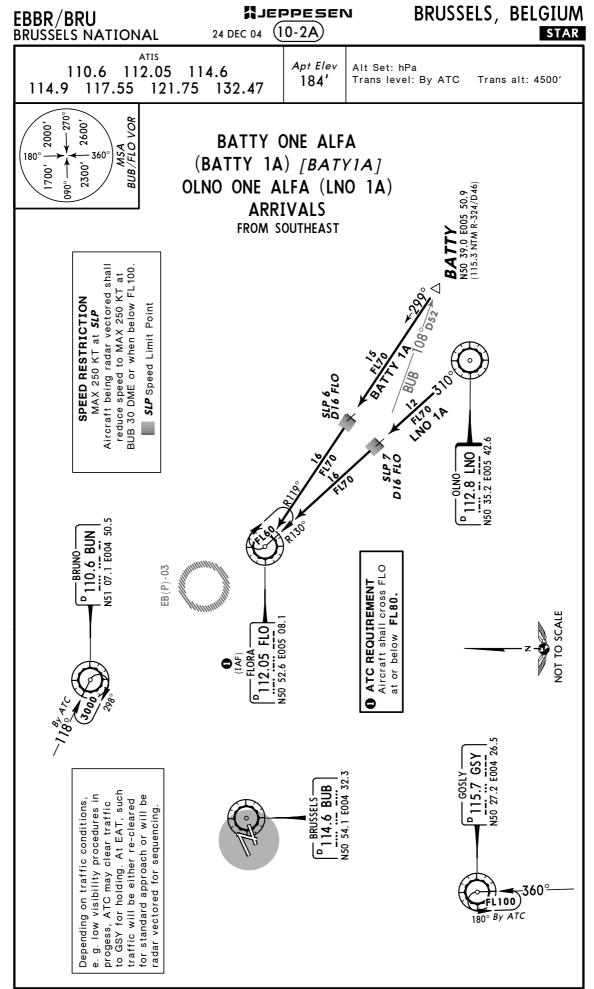
21 MAY 99

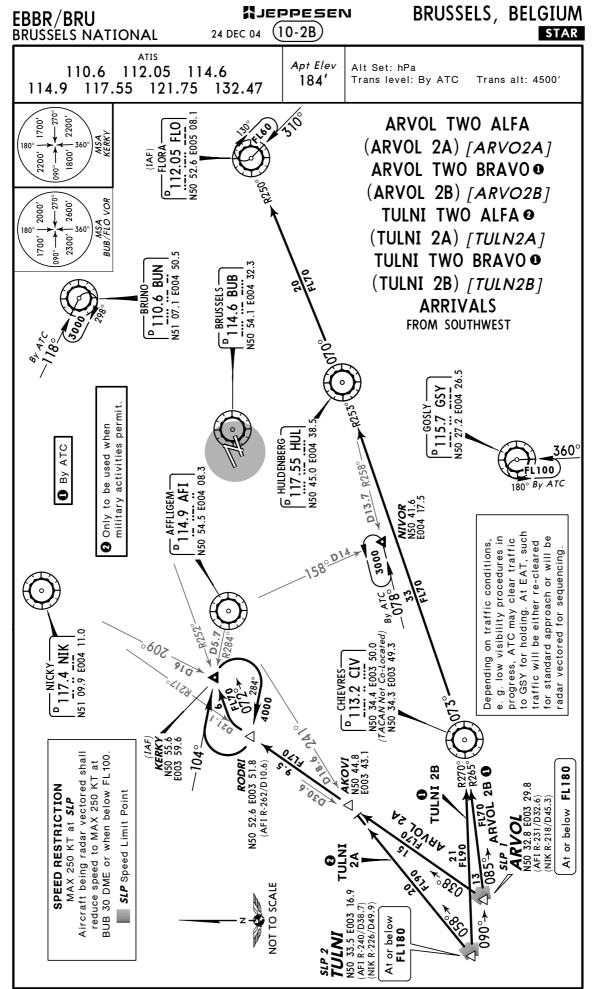


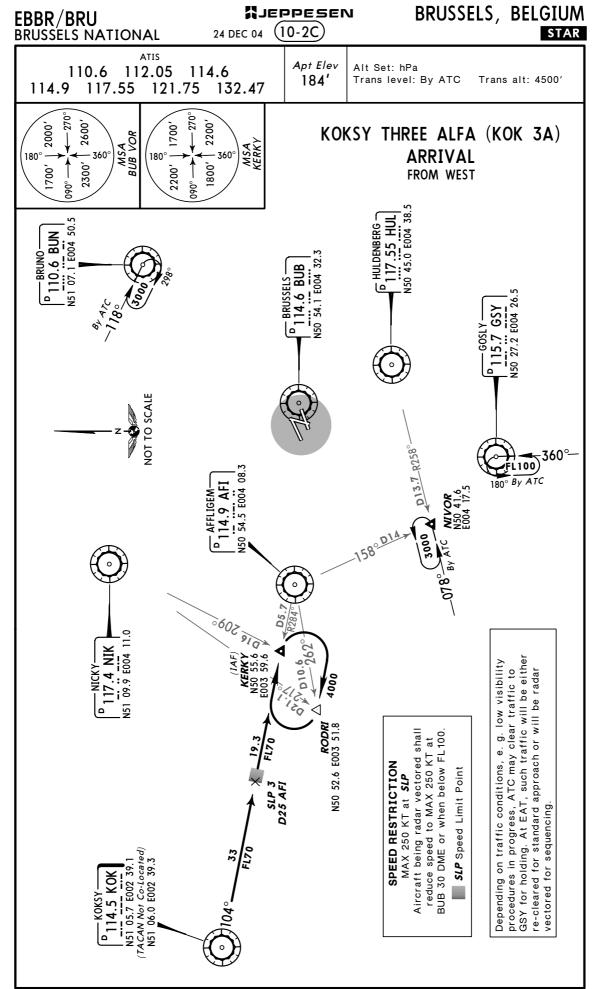
BRUSSELS, BELGIUM











Notice: After 17.3.2005 0901Z this chart should not be used without first checking JeppView or NOTAMs.

EBBR/BRU BRUSSELS NATIONAL

X JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-3)

SID

118.6 120.77

Apt Elev 184' Trans level: By ATC Trans alt: 4500

1. After take-off remain on Tower frequency.

2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

CHIEVRES RWYS 25L/R DEPARTURES

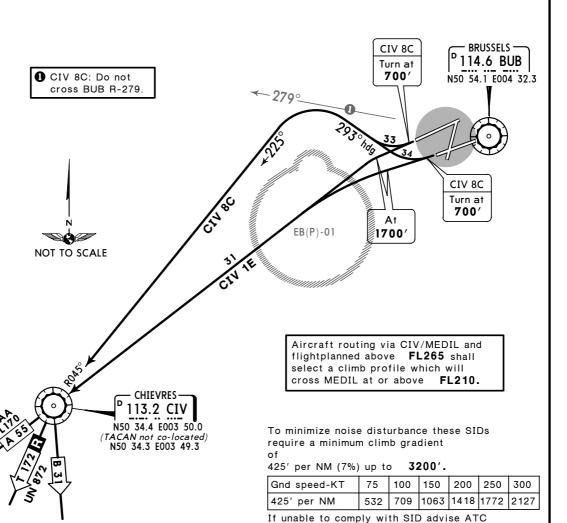
SOUTHBOUND VIA AIRWAY A 55 SOUTHBOUND VIA AIRWAYS T 172, UN 872 (ONLY FOR TRAFFIC FLIGHTPLANNED ABOVE FL195)

COMPULSORY FOR DESTINATIONS WITHIN
PARIS TMA VIA AIRWAY B 31 SOUTHBOUND

FOR SIDS RWYS 02, 07L/R, 20 REFER TO CHART 10-3A FOR NIGHTTIME SIDS RWYS 25R/L REFER TO CHART 10-3B

STATE MAX 250 KT OR CLEAN SPEED (VZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID	INITIAL CLIMB/ROUTING				
CIV 8C 2	Climb to 700' , turn RIGHT, 293° heading, intercept CIV R-045 inbound to CIV.				
CIV 1E 🚯	Climb straight ahead, at 1700' turn LEFT to CIV.				

Not available during weekends between 0600-2259LT.

3 Only available during weekends between 0600-2259LT

when requesting start-up clearance

EBBR/BRU BRUSSELS NATIONAL

X JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-3A)

DELOIOM

BRUSSELS Tower

120.77

184'

Apt Elev Trans level: By ATC Trans alt: 4500'

1. After take-off remain on Tower frequency.

2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

CHIEVRES

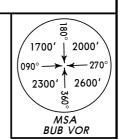
RWYS 02, 07L/R, 20 DEPARTURES

SOUTHBOUND VIA AIRWAY A 55

SOUTHBOUND VIA AIRWAYS T 172, UN 872 (ONLY FOR TRAFFIC FLIGHTPLANNED ABOVE FL195)

COMPULSORY FOR DESTINATIONS WITHIN
PARIS TMA VIA AIRWAY B 31 SOUTHBOUND
FOR NIGHTTIME SIDS RWYS 25R/L REFER TO CHART 10-3B

MAX 250 KT OR CLEAN SPEED (V ZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC



Aircraft routing via CIV/MEDIL and flightplanned above FL265 shall 1700 select a climb profile which will cross MEDIL at or above FI 210. At 700' BRUSSELS 114.6 BUB At 1700' 1700' or BUB 1.1 DME N50 54.1 E004 32 whichever is later 0 (HUL R-270) 0 At FL60 (FL70 when QNH is below 977 hPa) or above if instructed by ATC **D3 HUL** N50 47.9 E004 37.7 EB(P)-01 At 700' HULDENBERG NOT TO SCALE 117.55 HUL N50 45.0 E004 38.5 To minimize noise disturbance these SIDs require a minimum climb gradient of **CHIEVRES** 425' per NM (7%) up to 3200'.

Gnd speed-KT 75 100 150 200 250 300 425' per NM 532 709 1063 1418 1772 2127

If unable to comply with SID advise ATC when requesting start-up clearance.

Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

113.2 CIV

N50 34.4 E003 50.0

ACAN not co-located N50 34.3 E003 49.3

		Briedelle denti de doon de traffie permite					
SID	RWY	INITIAL CLIMB/ROUTING					
CIV 4F	02	Climb to 700' , 011° track, at 1700' turn LEFT, intercept CIV R-044 inbound to CIV.					
CIA 3H	07L	Climb straight ahead, at 1700' turn LEFT, 278° heading, intercept CIV R-044 inbound to CIV.					
CIV 3J	07R	Climb to 700' , 065° track, at 1700' or BUB 1.1 DME, whichever is later, turn RIGHT, intercept HUL R-352 inbound, at D3 HUL turn RIGHT, intercept CIV R-073 inbound to CIV.					
CIV 6L	20	Climb to 700' , 160° track, turn RIGHT, intercept CIV R-067 inbound to CIV.					

EBBR/BRU BRUSSELS NATIONAL

X JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-3B)

BRUSSELS Tower 118.6 120.77

Apt Elev 184'

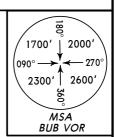
Trans level: By ATC Trans alt: 4500 1. After take-off remain on Tower frequency. 2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

CHIEVRES RWYS 25R/L DEPARTURES

AVAILABLE BETWEEN 2300-0559LT SOUTHBOUND VIA AIRWAY A 55

SOUTHBOUND VIA AIRWAYS T 172, UN 872 (ONLY FOR TRAFFIC FLIGHTPLANNED ABOVE FL195)

COMPULSORY FOR DESTINATIONS WITHIN PARIS TMA VIA AIRWAY B 31 SOUTHBOUND SPEED MAX 250 KT OR CLEAN SPEED (V ZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC



Aircraft routing via CIV/MEDIL and flightplanned above FL265 shall select a climb profile which will cross MEDIL at or above FL210.

BRUSSELS -RWL07 114.6 BUB N50 54.0 E004 27.6 N50 54.1 E004 32.3 At or above 400



BR009 N50 46.8 E004 16.9

BRØ45

N50 52.8 E004

To minimize noise disturbance these SIDs

NOT TO SCALE

require a minimum climb gradient 425' per NM (7%) up to 3200'.

Gnd speed-KT						
425' per NM	532	709	1063	1418	1772	2127

If unable to comply with SID advise ATC when requesting start-up clearance.

Initial climb clearance FL60, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID	RWY	INITIAL CLIMB/ROUTING
CIV 6D	25R	At BUB 3 DME (THR 07L) on 254° track, at BUB 6 DME turn LEFT, 209° track, intercept CIV R-055 inbound to CIV. RNAV: RWL07 (400'+) - BR045 - BR009 - CIV.
CIV 1Q	25L	Straight ahead, at BUB 7 DME turn LEFT, 209° track, intercept CIV R-055 inbound to CIV.

EBBR/BRU BRUSSELS NATIONAL

↓ JEPPESEN

BRUSSELS, BELGIUM

(10-3C)24 DEC 04

BRUSSELS Tower Apt Elev 118.6 184' 120.77

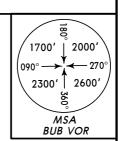
Trans level: By ATC Trans alt: 4500 1. After take-off remain on Tower frequency. 2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

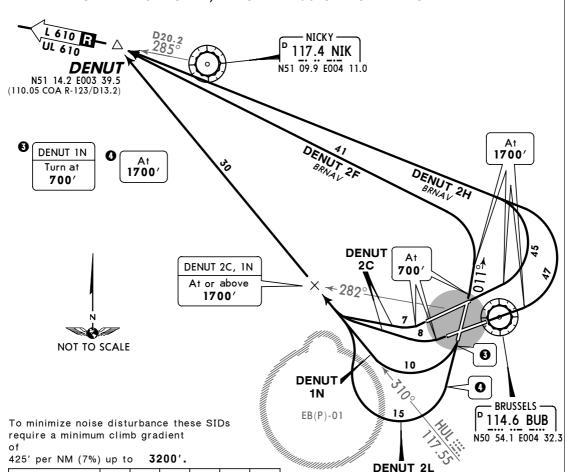
DENUT

RWYS 25L/R, 02, 07L/R, 20 DEPARTURES VIA AIRWAYS (U)L 610 WESTBOUND

FOR TRAFFIC DESTINATIONS EGKK, EGHH & EGHI FOR TRAFFIC OVERFLYING LONDON TMA WITH REQUESTED FL ABOVE FL245

STEED MAX 250 KT OR CLEAN SPEED (V ZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





If unable to comply with SID advise ATC when requesting start-up clearance

75

532

100

709

150

1063

200

250

1418 1772 2127

Initial climb clearance FL60, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID	RWY	INITIAL CLIMB/ROUTING
DENUT 2C [DENU2C]	25L/R	Climb to 700', turn RIGHT, intercept HUL R-310 to DENUT.
DENUT 2F [DENU2F] BRNAV above MSA	02	Climb to 700' , 011° track, at 1700' turn LEFT to DENUT.
DENUT 2H [DENU2H] BRNAV above MSA	07L/R	Climb straight ahead, at 1700' turn LEFT to DENUT.
DENUT 2L [DENU2L] ● 20		Climb straight ahead, at 1700' turn RIGHT, intercept HUL R-310 to DENUT.
DENUT 1N [DENUIN]		Climb to 700', turn RIGHT, intercept HUL R-310 to DENUT.

Available between 0600-2259LT.

Available between 2300-0559LT or when runway 25R is not available for landing.

Gnd speed-KT

425' per NM

EBBR/BRU BRUSSELS NATIONAL

↓ JEPPESEN

BRUSSELS, BELGIUM

(10-3D)24 DEC 04

Trans level: By ATC Trans alt: 4500

BRUSSELS Tower Apt Elev 118.6 184' 120.77

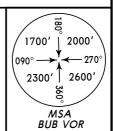
1. After take-off remain on Tower frequency. 2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

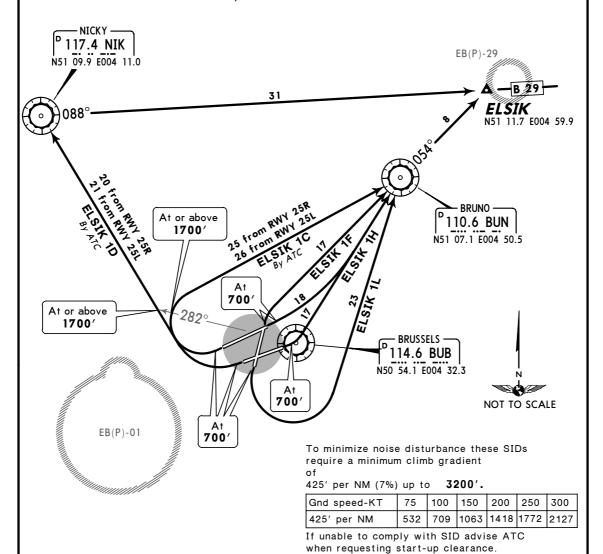
ELSIK

RWYS 25L/R, 02, 07L/R, 20 DEPARTURES B 29 EASTBOUND

TO BE USED WHEN ADEQUATE MILITARY AIRSPACES ARE AVAILABLE FOR GAT

SZED MAX 250 KT OR CLEAN SPEED (V ZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





Initial climb clearance FL60, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID	RWY	INITIAL CLIMB/ROUTING		
ELSIK 1C [ELSIIC] BY ATC ①	25L/R	Climb to 700^{\prime} , turn RIGHT to BUN, then to ELSIK.		
ELSIK 1D [ELSIID] BY ATC		Climb to 700' , turn RIGHT to NIK, then to ELSIK.		
ELSIK 1F [ELSI1F]	02	Climb to 700', turn RIGHT to BUN, then to ELSIK.		
ELSIK 1H [ELSI1H]	07L/R	Climb to 700' , turn LEFT to BUN, then to ELSIK.		
ELSIK 1L [ELSI1L]	20			
1 If unable to comply advise ATC and expect SID ELSIK 1D.				

EBBR/BRU **BRUSSELS NATIONAL**

🔀 JEPPESEN 24 DEC 04 (10-3E)

BRUSSELS, BELGIUM

NOT TO SCALE

BRUSSELS Tower Apt Elev 118.6 184' 120.77

Trans level: By ATC Trans alt: 4500 1. After take-off remain on Tower frequency.

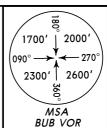
2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

HELEN

RWYS 25L/R, 02, 07L/R, 20 DEPARTURES

FOR TRAFFIC WITH DESTINATION EHAM: ROUTE HELEN - HSD FOR TRAFFIC INBOUND LONDON TMA EXCEPT DESTINATIONS EGKK. EGHH & EGHI & FOR TRAFFIC OVERFLYING LONDON TMA WITH REQUESTED FL BELOW FL245: ROUTE HELEN - COA

FOR TRAFFIC VIA AIRWAY L 745 INTENDING TO LEAVE AMSTERDAM FIR VIA RAVLO, MIMVA OR GODOS: ROUTE HELEN - COA - TULIP SPEED MAX 250 KT OR CLEAN SPEED (V ZF),



WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC HELEN D12.5 NICKY -N51 14.1 E003 52.2 117.4 NIK (113.3 SPY N51 09.9 E004 11.0 R-207/D86.2)

1700 HELEN 1N Turn at 700 0 1700 **HELEN**

To minimize noise disturbance these SIDs require a minimum climb gradient

3200'. 425' per NM (7%) up to 150 75

when requesting start-up clearance.

Gnd speed-KT 100 200 250 300 425' per NM 532 709 1063 1418 1772 2127 If unable to comply with SID advise ATC

HELEN 2C, 1N At or above 1700

> EB(P)-01 **BRUSSELS** 114.6 BUB N50 54.1 E004 32.3 HELEN

0

700

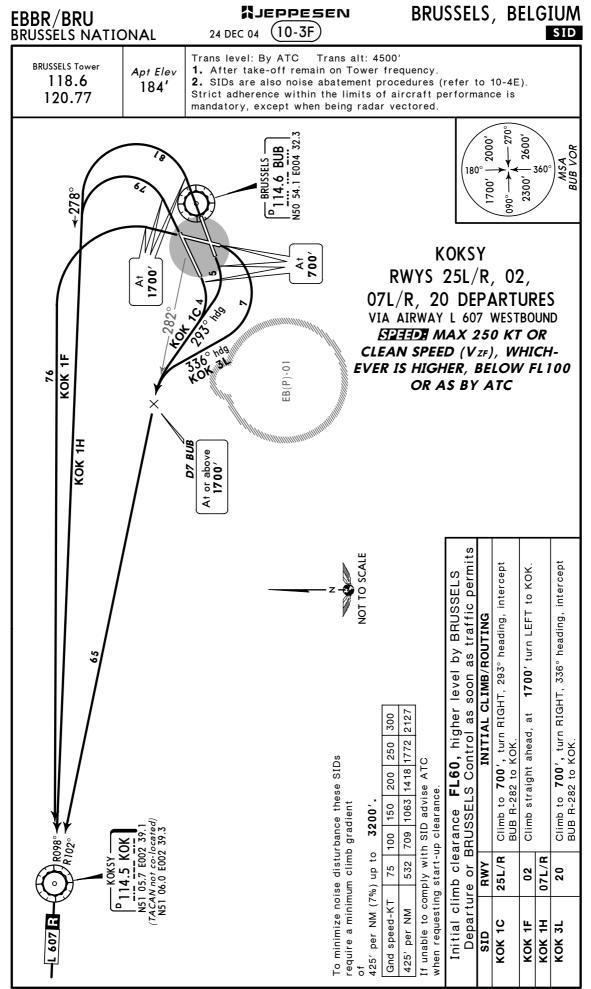
282

Initial climb clearance FL60, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID RWY		INITIAL CLIMB/ROUTING		
HELEN 2C [HELE2C]	25L/R	Climb to 700 ', turn RIGHT, intercept HUL R-317 to HELEN.		
HELEN 2F [HELE2F] BRNAV above MSA	02	Climb to 700', 011° track, at 1700' turn LEFT to HELEN.		
HELEN 2H [HELE2H] BRNAV above MSA	07L/R	Climb straight ahead, at 1700' turn LEFT to HELEN.		
HELEN 2L [HELE2L]	20	Climb straight ahead, at 1700' turn RIGHT, intercept HUL R-317 to HELEN.		
HELEN 1N [HELE 1N]		Climb to 700', turn RIGHT, intercept HUL R-317 to HELEN.		

Available between 0600-2259LT.

Available between 2300-0559LT or when runway 25R is not available for landing.



Notice: After 17.3.2005 0901Z this chart should not be used without first checking JeppView or NOTAMs.

EBBR/BRU BRUSSELS NATIONAL

X JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-3G)

BRUSSELS Tower 118.6 120.77

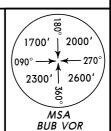
Apt Elev 184'

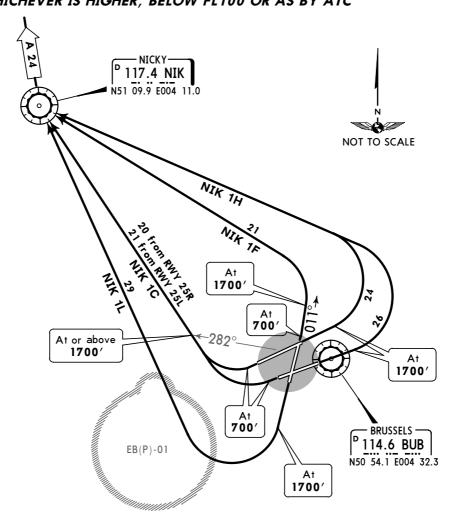
Trans level: By ATC Trans alt: 4500' 1. After take-off remain on Tower frequency. 2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

NICKY

RWYS 25L/R, 02, 07L/R, 20 DEPARTURES VIA AIRWAY A 24 NORTHBOUND

NOT TO BE USED BY TRAFFIC DESTINATION EHAM FOR NIGHTTIME SIDS RWYS 20, 25R REFER TO CHART 10-3H STATE MAX 250 KT OR CLEAN SPEED (V ZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





To minimize noise disturbance these SIDs require a minimum climb gradient

Gnd speed-KT 300 75 100 150 200 250 425' per NM 709 1063 1418 1772 2127 532

If unable to comply with SID advise ATC 425' per NM (7%) up to when requesting start-up clearance

Initial climb clearance FL60, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID	RWY	INITIAL CLIMB/ROUTING			
NIK 1C 0	25L/R	Climb to 700' , turn RIGHT to NIK.			
NIK 1F	02	Climb to 700', 011° track, at 1700' turn LEFT to NIK.			
NIK 1H	07L/R	Climb straight ahead, at 1700' turn LEFT to NIK.			
NIK 1L 🕢	20	Climb straight ahead, at 1700' turn RIGHT to NIK.			

1 SIDs runway 25R only available between 0600-2259LT.

² Available between 0600-2259LT

EBBR/BRU BRUSSELS NATIONAL

🖁 JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-3H)

STI

118.6 120.77

Apt Elev 184' Trans level: By ATC Trans alt: 4500'

1. After take-off remain on Tower frequency.

2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

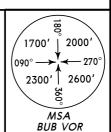
NICKY

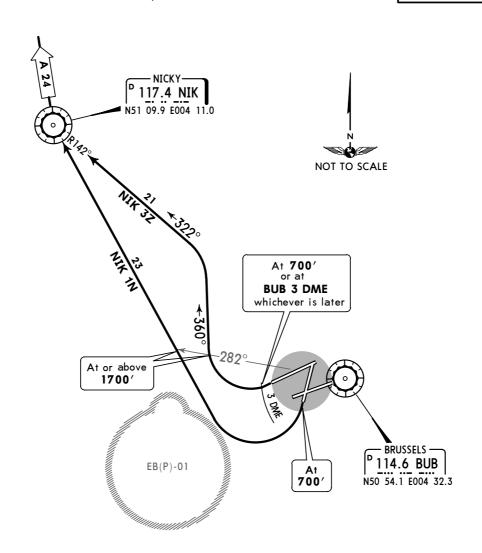
RWYS 20, 25R DEPARTURES

VIA AIRWAY A 24 NORTHBOUND

NOT TO BE USED BY TRAFFIC DESTINATION EHAM

STATE MAX 250 KT OR CLEAN SPEED (Vzf), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





To minimize noise disturbance these SIDs require a minimum climb gradient of

3200'.

Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

If unable to comply with SID advise ATC when requesting start-up clearance.

Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID	RWY	INITIAL CLIMB/ROUTING				
NIK 1N 🕡	20	Climb to 700 ', turn RIGHT to NIK.				
NIK 3Z ②	25R	Climb to 700 ' or BUB 3 DME, wichever is later, turn RIGHT, 360° track, turn LEFT, intercept NIK R-142 inbound to NIK.				

Available between 2300-0559LT or when runway 25R is not available for landing.
 Available between 2300-0559LT.

425' per NM (7%) up to

EBBR/BRU BRUSSELS NATIONAL

🚜 JEPPESEN

BRUSSELS, BELGIUM

SID

BRUSSELS Tower 118.6 120.77

Apt Elev 184' Trans level: By ATC Trans alt: 4500'

24 DEC 04 (10-3J

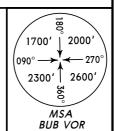
1. After take-off remain on Tower frequency.

2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

OLNO

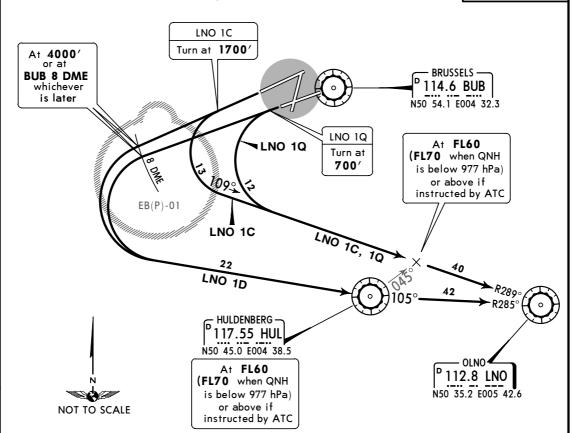
RWYS 25R/L DEPARTURES

FOR SIDS RWYS 02, 07L/R, 20 REFER TO CHART 10-3K FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3L STREET MAX 250 KT OR CLEAN SPEED (Vzf), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC



300

250



To minimize noise disturbance these SIDs require a minimum climb gradient of

425' per NM 532 709 1063 1418 1772

If unable to comply with SID advise ATC when requesting start-up clearance.

75

100

150

200

425' per NM (7%) up to **3200'.**

Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

Gnd speed-KT

SID	RWY	INITIAL CLIMB/ROUTING		
LNO 1C	25R	Climb straight ahead, at 1700' turn LEFT, intercept LNO R-289 inbound		
000		to LNO.		
LNO 1D	25L/R	Climb straight ahead, at 4000' or at BUB 8 DME, whichever is later,		
00		turn LEFT to HUL, intercept LNO R-285 inbound to LNO.		
LNO 1Q 0 0	25L	Climb to 700', turn LEFT, intercept LNO R-289 inbound to LNO.		

1 To be used by 1-, 2-, 3-engined aircraft.

May be used by 4-engined aircraft noise certificated according to ICAO Annex 16, Chapter 3/ FAR Part 36 Stage 3 and whose performances permit to adhere to the SID.

- For traffic requesting a cruising or initial FL below FL195.
- Available between 0600-2259LT.
- To be used by 4-engined aircraft.
- SIDs runway 25R only available between 0600-2259LT.

EBBR/BRU BRUSSELS NATIONAL

BRUSSELS, BELGIUM

SID

118.6 120.77

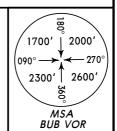
Apt Elev 184' Trans level: By ATC Trans alt: 4500'

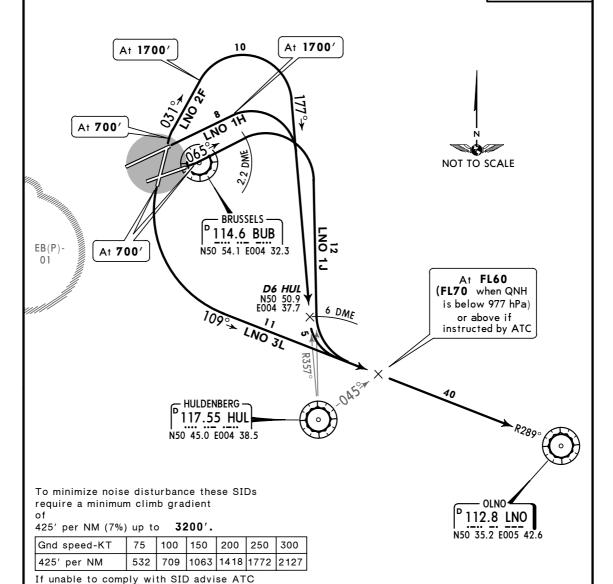
1. After take-off remain on Tower frequency.

2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

OLNO

RWYS 02, 07L/R, 20 DEPARTURES
FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3L
SIZEDE MAX 250 KT OR CLEAN SPEED (VZF),
WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





when requesting start-up clearance.

Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID	RWY	INITIAL CLIMB/ROUTING
LNO 2F	02	Climb to 700' , 031° track, at 1700' turn RIGHT, intercept HUL R-357 inbound to D6 HUL, turn LEFT, intercept LNO R-289 inbound to LNO.
LNO 1H	07L	Climb straight ahead, at 1700', turn RIGHT, intercept HUL R-357 inbound to D6 HUL, turn LEFT, intercept LNO R-289 inbound to LNO.
LNO 1J	07R	Climb to 700' , 065° track to BUB 2.2 DME, turn RIGHT towards HUL, at HUL 6 DME turn LEFT, intercept LNO R-289 inbound to LNO.
LNO 3L	20	Climb to 700', turn LEFT, intercept LNO R-289 inbound to LNO.

BRUSSELS, BELGIUM **MALEPPESEN** EBBR/BRU BRUSSELS NATIONAL 24 DEC 04 (10-3L) Trans level: By ATC Trans alt: 4500' **BRUSSELS** Tower 1. After take-off remain on Tower frequency. Apt Elev 118.6 2. SIDs are also noise abatement procedures (refer to 10-4E). 184' Strict adherence within the limits of aircraft performance is 120.77 mandatory, except when being radar vectored. OLNO TWO ZULU (LNO 2Z) 2000 1700' RWY 25R DEPARTURE **AVAILABLE BETWEEN 2300-0559LT** 2300' 2600 SPEED MAX 250 KT OR CLEAN SPEED (VZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC MSA BUB VOR - AFFLIGEM -114.9 AFI Do not cross N50 54.5 E004 08.3 BUB R-279. **BRUSSELS** 114.6 BUB N50 54.1 E004 32.3 **D22 CIV** N50 50.2 E004 13.3 700 EB(P)-01 OLNO. 112.8 LNO N50 35.2 E005 42.6 16 091°→ HULDENBERG 117.55 HUL N50 45.0 E004 38.5 At FL60 NOT TO SCALE (FL70 when QNH is below 977 hPa) or above if instructed by ATC To minimize noise disturbance these SIDs require a minimum climb gradient 425' per NM (7%) up to 3200'. Gnd speed-KT 75 100 150 200 250 300 425' per NM 1063 1418 1772 532 709 If unable to comply with SID advise ATC

Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

INITIAL CLIMB/ROUTING

Climb to 700', turn RIGHT, 293° heading, intercept CIV R-045 inbound, at D22 CIV turn LEFT, intercept AFI R-158, at D9 AFI turn LEFT, intercept HUL R-271 inbound to HUL, intercept LNO R-285 inbound to LNO.

when requesting start-up clearance

X JEPPESEN BRUSSELS, BELGIUM EBBR/BRU 24 DEC 04 (10-3M) **BRUSSELS NATIONAL** Trans level: By ATC Trans alt: 4500 **BRUSSELS** Tower 1. After take-off remain on Tower frequency. Apt Elev 118.6 2. SIDs are also noise abatement procedures (refer to 10-4E). 184' Strict adherence within the limits of aircraft performance is 120.77 mandatory, except when being radar vectored. **PITES** RWYS 25L/R DEPARTURES 2000' 1700' AVAILABLE FOR TRAFFIC VIA AIRWAY UM 150 (CDR1) 090 SIDS RWY 25R ONLY AVAILABLE BETWEEN 0600-2259LT 2300' 2600 FOR SIDS RWYS 02, 07L/R REFER TO CHART 10-3N 360 FOR SIDS RWY 20 REFER TO CHART 10-3P FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3Q MSA SEED MAX 250 KT OR CLEAN SPEED (VZF) BUB VOR WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC PITES 1C At 4000 Turn at 1700' or at **BUB 8 DME** BRUSSELS whichever 114.6 BUB is later N50 54.1 E004 32.3 HULDENBERG NOT TO SCALE 117.55 HUL N50 45.0 E004 38.5 Aircraft routing via RITAX/ 黑 At FL60 PITES and flightplanned (FL70 when QNH above FL245 shall select a climb profile which will is below 977 hPa) cross RITAX or ABEAM or above if FI 250 RITAX at or above instructed by ATC N50 39.7 E004 54.5 Turn when passing **DIK R-317** or **FL100** whichever is later SPRIMONT -113.1 SPI At FL60 N50 30.9 E005 37.4 (FL70 when QNH is below 977 hPa) or above if instructed by ATC To minimize noise disturbance these SIDs require a minimum climb gradient E005 48.4 425' per NM (7%) up to 3200'. DIEKIRCH 75 Gnd speed-KT 100 150 200 250 300 114.4 DIK 1418 1772 2127 425' per NM 532 709 1063 N49 51.7 E006 07.8 If unable to comply with SID advise ATC N49 43.7 E006 31.2 when requesting start-up clearance FL60, higher level by BRUSSELS Departure or Initial climb clearance BRUSSELS Control as soon as traffic permits INITIAL CLIMB/ROUTING SID PITES 1C Climb straight ahead, at 1700' turn LEFT to HUL, intercept SPI R-289 inbound, [PITE1C] when passing DIK R-317 or FL100, whichever is later, turn RIGHT to RITAX, 000 then to DIK, then to PITES Climb straight ahead, at 4000' or at BUB 8 DME, whichever is later, turn LEFT, PITES 1D FL100, whichever is [PITE1D intercept SPI R-289 inbound, when passing DIK R-317 or 000 later, turn RIGHT to RITAX, then to DIK, then to PITES. 1 To be used by 1-, 2-, 3-engined aircraft. May be used by 4-engined aircraft noise certificated according to ICAO Annex 16, Chapter 3/ FAR Part 36 Stage 3 and whose performances permit to adhere to the SID. UM 150 not available: SOPOK 2C - SOPOK - ETENO. Alternative route when airway 🗿 Alternative route on ATC instruction: SOPOK 2C - SOPOK - RITAX - DIK - PITES. 4 To be used by 4-engined aircraft. Alternative route when airway UM 150 not available: SOPOK 2D - SOPOK - ETENO. 6 Alternative route on ATC instruction: SOPOK 2D - SOPOK - RITAX - DIK - PITES.

EBBR/BRU **BRUSSELS NATIONAL**

X JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-3N)

BRUSSELS Tower Apt Elev 118.6 184' 120.77

Trans level: By ATC 1. After take-off remain on Tower frequency. 2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

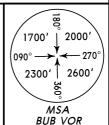
Trans alt: 4500

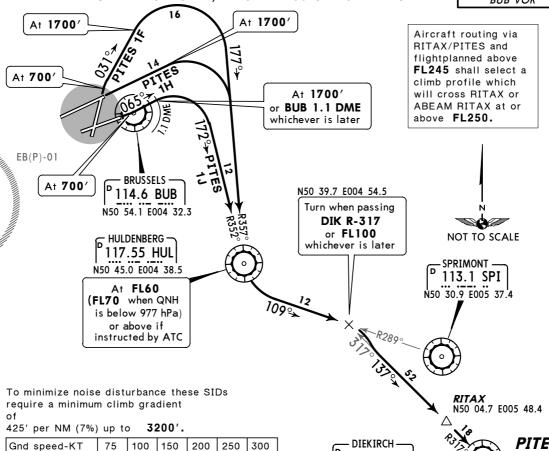
PITES

RWYS 02, 07L/R DEPARTURES

AVAILABLE FOR TRAFFIC VIA AIRWAY UM 150 (CDR1) FOR SIDS RWY 20 REFER TO CHART 10-3P FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3Q

MAX 250 KT OR CLEAN SPEED (Vzf), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





FL60, higher level by BRUSSELS Departure or Initial climb clearance BRUSSELS Control as soon as traffic permits

2127

SID	RWY	INITIAL CLIMB		
PITES 1F [PITE1F] ① ②	02	Climb to 700' , 031° track, at 1700' turn RIGHT, intercept HUL R-357 inbound to HUL.		
PITES 1H [PITE1H] 3 4	07L	Climb straight ahead, at 1700' turn RIGHT, intercept HUL R-357 inbound to HUL.		
PITES 1J [PITE1J] 6 6	07R	Climb to 700' , 065° track, at 1700' or BUB 1.1 DME, whichever is later, turn RIGHT, intercept HUL R-352 inbound to HUL.		

ROUTING

At HUL turn LEFT, intercept SPI R-289 inbound, when passing DIK R-317 or is later, turn RIGHT to RITAX, then to DIK, then to PITES.

FL100, whichever

- UM 150 not available: SOPOK 2F SOPOK ETENO. Alternative route when airway
- Alternative route on ATC instruction: SOPOK 2F SOPOK RITAX DIK PITES.
- UM 150 not available: SOPOK 1H SOPOK ETENO. Alternative route when airway
- Alternative route on ATC instruction: SOPOK 1H SOPOK RITAX DIK PITES.
- Alternative route when airway UM 150 not available: SOPOK 1J - SOPOK - ETENO.
- Alternative route on ATC instruction: SOPOK 1J SOPOK RITAX DIK PITES

425' per NM

532

If unable to comply with SID advise ATC when requesting start-up clearance

709

1063

1418 1772

114.4 DIK

N49 51.7 E006 07.8

EBBR/BRU **BRUSSELS NATIONAL**

↓ JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-3P

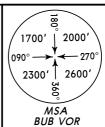
BRUSSELS Tower Apt Elev 118.6 184' 120.77

Trans level: By ATC Trans alt: 4500 1. After take-off remain on Tower frequency. 2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

PITES

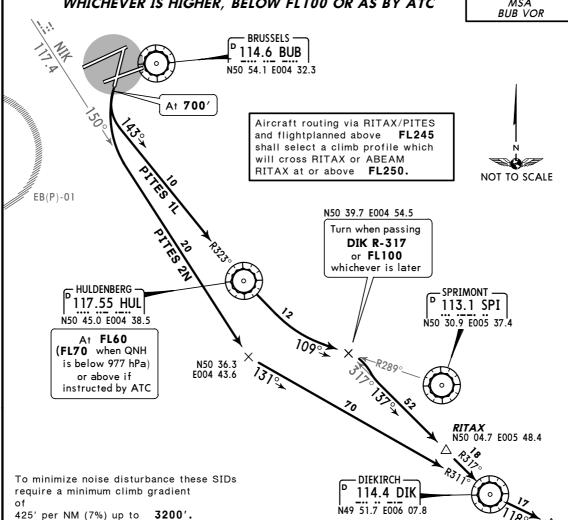
RWY 20 DEPARTURES

FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3Q STATE MAX 250 KT OR CLEAN SPEED (V ZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC



PITES

N49 43.7 E006 31.2



when requesting start-up clearance. Initial climb clearance FL60, higher level by BRUSSELS Departure or

1418 1772 2127

300

200 250

SID	INITIAL CLIMB/ROUTING		
PITES 1L [PITE1L] 1 2	Climb to 700' , turn LEFT, intercept HUL R-323 inbound to HUL, turn LEFT, intercept R-289 inbound, when passing DIK R-317 or FL100 , whichever is later, turn RIGHT to RITAX, then to DIK, then to PITES.		
PITES 2N [PITE2N] 3	Climb to 700' , turn LEFT, intercept NIK R-150, turn LEFT, intercept DIK R-311 inbound to DIK, then to PITES.		

BRUSSELS Control as soon as traffic permits

UM 150 (CDR1). Available for traffic via airway

75 | 100 | 150

532 709 1063

If unable to comply with SID advise ATC

- Alternative route when airway UM 150 not available: SOPOK 1L - SOPOK - ETENO.
- Alternative route on ATC instruction: SOPOK 1L SOPOK RITAX DIK PITES.
- Available between 2300-0559LT if airway UM 150 is available. Exceptionally not available between 2300-2400LT due to military activity in Belgium. Alternative SID: PITES 1L.

Gnd speed-KT

425' per NM

EBBR/BRU **BRUSSELS NATIONAL**

JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-3Q)

BRUSSELS Tower 118.6 120.77

Apt Elev 184'

Trans level: By ATC Trans alt: 4500 1. After take-off remain on Tower frequency.

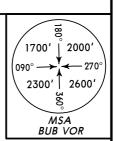
2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is

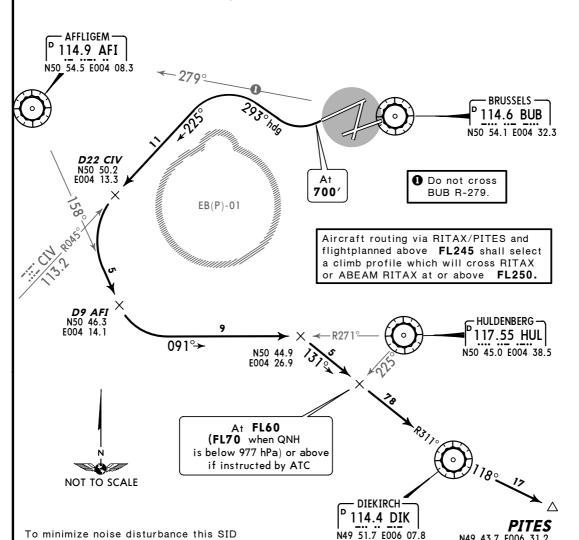
mandatory, except when being radar vectored.

PITES TWO ZULU (PITES 2Z) [PITE2Z] **RWY 25R DEPARTURE**

AVAILABLE BETWEEN 2300-0559LT ALTERNATIVE ROUTE ON ATC INSTRUCTION: SOPOK 3Z - SOPOK - RITAX - DIK - PITES

SPEED MAX 250 KT OR CLEAN SPEED (VZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





To minimize noise disturbance this SID requires a minimum climb gradient

425' per NM (7%) up to 3200'.

Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

If unable to comply with SID advise ATC when requesting start-up clearance

> FL60, higher level by BRUSSELS Departure or Initial climb clearance BRUSSELS Control as soon as traffic permits

INITIAL CLIMB/ROUTING

Climb to 700', turn RIGHT, 293° heading, intercept CIV R-045 inbound, at D22 CIV turn LEFT, intercept AFI R-158, at D9 AFI turn LEFT, intercept HUL R-271 inbound, intercept DIK R-311 inbound to DIK, then to PITES.

N49 43.7 E006 31.2

EBBR/BRU **BRUSSÉLS NATIONAL**

X JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-35)

BRUSSELS Tower Apt Elev 118.6 184' 120.77

Trans alt: 4500' Trans level: By ATC

1. After take-off remain on Tower frequency. 2. SIDs are also noise abatement procedures (refer to 10-4E).

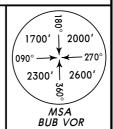
Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

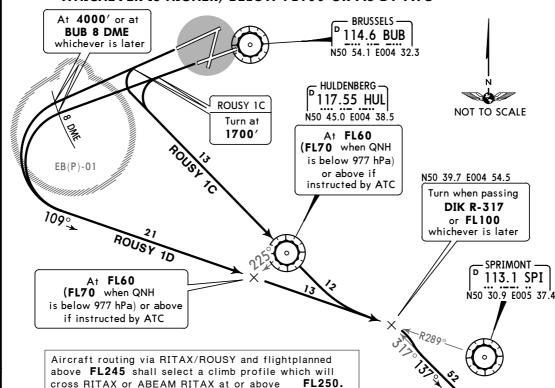
ROUSY

RWYS 25L/R DEPARTURES

SIDS RWY 25R ONLY AVAILABLE BETWEEN 0600-2259LT FOR SIDS RWYS 02, 07L/R REFER TO CHART 10-3T FOR SIDS RWY 20 REFER TO CHART 10-3U FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3V

SPEED MAX 250 KT OR CLEAN SPEED (VZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC



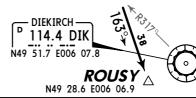


To minimize noise disturbance these SIDs require a minimum climb gradient

425' per NM (7%) up to 3200'.

		1				
Gnd speed-KT						
425' per NM	532	709	1063	1418	1772	2127

If unable to comply with SID advise ATC when requesting start-up clearance



RITAX N50 04.7

E005 48.4

Initial climb clearance FL60, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID	INITIAL CLIMB/ROUTING		
ROUSY 1C [ROUSIC] 1 2	Climb straight ahead, at 1700' turn LEFT to HUL, intercept SPI R-289 inbound, when passing DIK R-317 or FL100 , whichever is later, turn RIGHT to RITAX, then to ROUSY.		
ROUSY 1D [ROUSID] 3 4	Climb straight ahead, at 4000' or at BUB 8 DME, whichever is later, turn LEFT, intercept SPI R-289 inbound, when passing DIK R-317 or FL100, whichever is later, turn RIGHT to RITAX, then to ROUSY.		

1 To be used by 1-, 2-, 3-engined aircraft.

May be used by 4-engined aircraft noise certificated according to ICAO Annex 16, Chapter 3/ FAR Part 36 Stage 3 and whose performances permit to adhere to the SID.

- Alternative route on ATC instruction: SOPOK 2C SOPOK RITAX ROUSY.
- To be used by 4-engined aircraft.
- Alternative route on ATC instruction: SOPOK 2D SOPOK RITAX ROUSY.

EBBR/BRU BRUSSELS NATIONAL

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BRUSSELS, BELGIUM

24 DEC 04 (10-3T)

SID

SID

BRUSSELS Tower 118.6 120.77

After take-off remain on Tower frequency.
 SIDs are also noise abatement procedures (refer to 10-4E).
 Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

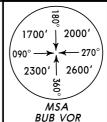
Trans alt: 4500

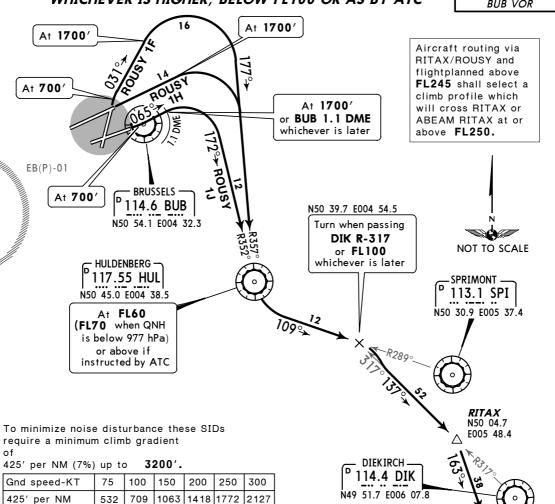
ROUSY

Trans level: By ATC

RWYS 02, 07L/R DEPARTURES

FOR SIDS RWY 20 REFER TO CHART 10-3U
FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3V
SETEN MAX 250 KT OR CLEAN SPEED (Vzf),
WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

		<u> </u>
SID	RWY	INITIAL CLIMB/ROUTING
ROUSY 1F [ROUS1F]	02	Climb to 700' , 031° track, at 1700' turn RIGHT, intercept HUL R-357 inbound to HUL, turn LEFT, intercept SPI R-289 inbound, when passing DIK R-317 or FL100 , whichever is later, turn RIGHT to RITAX, then to ROUSY.
ROUSY 1H [ROUS1H]	07L	Climb straight ahead, at 1700' turn RIGHT, intercept HUL R-357 inbound to HUL, turn LEFT, intercept SPI R-289 inbound, when passing DIK R-317 or FL100 , whichever is later, turn RIGHT to RITAX, then to ROUSY.
ROUSY 1J [ROUS1J]	07R	Climb to 700', 065° track, at 1700' or BUB 1.1 DME, whichever is later, turn RIGHT, intercept HUL R-352 inbound to HUL, turn LEFT, intercept SPI R-289 inbound, when passing DIK R-317 or FL100, whichever is later, turn RIGHT to RITAX, then to ROUSY.

- 1 Alternative route on ATC instruction: SOPOK 2F SOPOK RITAX ROUSY.
- ② Alternative route on ATC instruction: SOPOK 1H SOPOK RITAX ROUSY.
- 3 Alternative route on ATC instruction: SOPOK 1J SOPOK RITAX ROUSY.

If unable to comply with SID advise ATC when requesting start-up clearance.

ROUSY

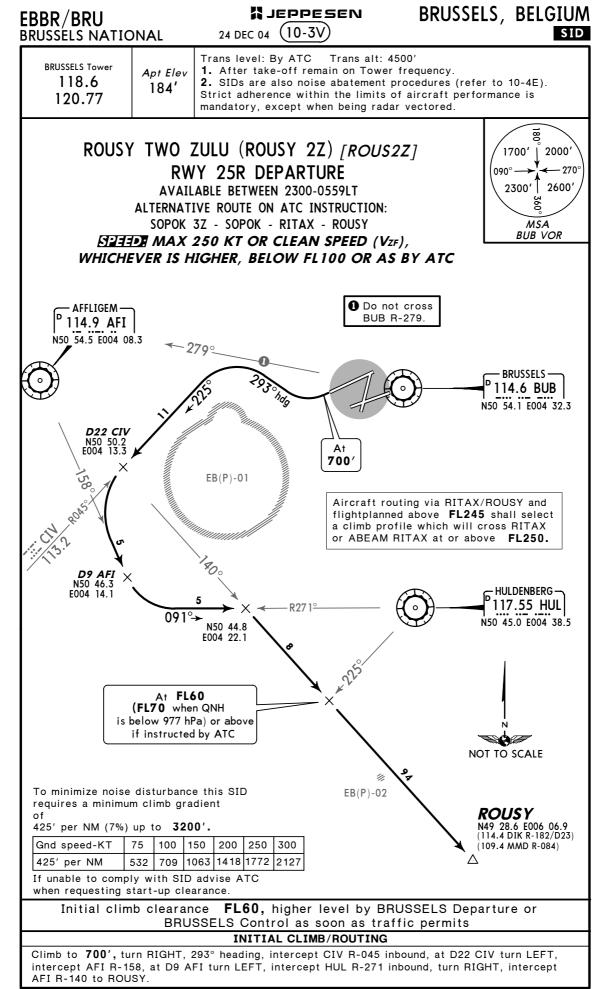
N49 28.6 E006 06.9

X JEPPESEN BRUSSELS, BELGIUM EBBR/BRU BRUSSELS NATIONAL 24 DEC 04 (10-3U) Trans level: By ATC Trans alt: 4500 **BRUSSELS** Tower 1. After take-off remain on Tower frequency. Apt Elev 118.6 2. SIDs are also noise abatement procedures (refer to 10-4E). 184' Strict adherence within the limits of aircraft performance is 120.77 mandatory, except when being radar vectored. ROUSY 2000' 1700' **RWY 20 DEPARTURES** 090 FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3V 2300' 7 2600' STATE MAX 250 KT OR CLEAN SPEED (V ZF), 360 WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC MSA BUB VOR **BRUSSELS** -D 114.6 BUB N50 54.1 E004 32.3 - HULDENBERG -At 700' 117.55 HUL N50 45.0 E004 38.5 At FL60 (FL70 when QNH is below 977 hPa) NOT TO SCALE EB(P)-01 or above if instructed by ATC N50 39.7 E004 54.5 Turn when passing **DIK R-317** or **FL100** SPRIMONT whichever is later 113.1 SPI N50 30.9 E005 37.4 Aircraft routing via RITAX/ROUSY and flightplanned above FL245 shall select a climb profile which **RITAX** N50 04.7 E005 48.4 will cross RITAX or ABEAM RITAX at or EB(P)-02 above FL250. To minimize noise disturbance these SIDs require a minimum climb gradient DIEKIRCH-114.4 DIK 425' per NM (7%) up to 3200'. N49 51.7 E006 07.8 75 200 | 250 | 300 Gnd speed-KT 100 | 150 425' per NM 532 709 1063 1418 1772 2127 ROUSY `△ If unable to comply with SID advise ATC N49 28.6 E006 06.9 when requesting start-up clearance Initial climb clearance FL60, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

SID	INITIAL CLIMB/ROUTING		
ROUSY 1L [ROUS1L]	Climb to 700' , turn LEFT, intercept HUL R-323 inbound to HUL, turn LEFT, intercept SPI R-289 inbound, when passing DIK R-317 or FL100 , whichever is later, turn RIGHT to RITAX, then to ROUSY.		
ROUSY 2N	Climb to 700' , turn LEFT, intercept NIK R-151, turn LEFT, intercept AFI R-140 to ROUSY.		

Alternative route on ATC instruction: SOPOK 1L - SOPOK - RITAX - ROUSY.

Available between 2300-0559LT. Exceptionally not available between 2300-2400LT due to military activity in Belgium. Alternative SID: ROUSY 1L.



EBBR/BRU BRUSSELS NATIONAL

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BRUSSELS, BELGIUM

J, DELOIOI

118.6 120.77 Apt Elev 184' Trans level: By ATC Trans alt: 4500'

1. After take-off remain on Tower frequency.

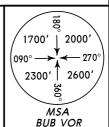
24 DEC 04 (10-3W)

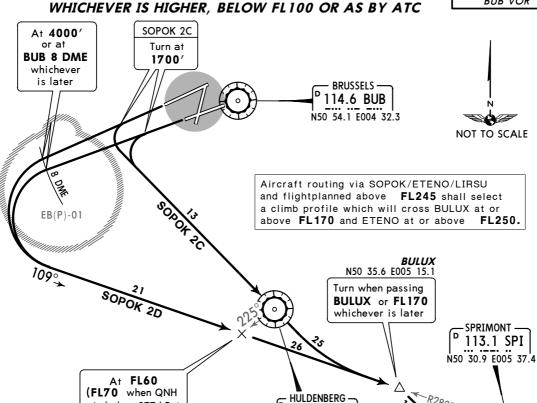
2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

SOPOK

RWYS 25L/R DEPARTURES

SIDS RWY 25R ONLY AVAILABLE BETWEEN 0600-2259LT FOR SIDS RWYS 02, 07L/R, 20 REFER TO CHART 10-3X FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3X1 SPEED MAX 250 KT OR CLEAN SPEED (Vzf),





To minimize noise disturbance these SIDs require a minimum climb gradient

425' per NM (7%) up to **3200'**.

Gnd speed-KT 75 100 150 200 250 300 425' per NM 532 709 1063 1418 1772 2127

is below 977 hPa)

instructed by ATC

or above if

SOPOK N50 15.2 E005 46.4

If unable to comply with SID advise ATC when requesting start-up clearance.

Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

117.55 HUL

N50 45.0 E004 38.5

At FL60 (FL70 when QNH is below 977 hPa)

or above if

instructed by ATC

SID	INITIAL CLIMB/ROUTING
SOPOK 2C	Climb straight ahead, at 1700' turn LEFT to HUL, intercept SPI R-289 inbound, when passing BULUX or FL170, whichever is later, turn RIGHT to SOPOK.
[307020]	when passing Bolox of FE170, whichever is later, turn right to 30FOK.
SOPOK 2D	Climb straight ahead, at 4000' or at BUB 8 DME, whichever is later, turn LEFT, intercept SPI R-289 inbound, when passing BULUX or FL170, whichever is
2	later, turn RIGHT to SOPOK.

1 To be used by 1-, 2-, 3-engined aircraft.

May be used by 4-engined aircraft noise certificated according to ICAO Annex 16, Chapter 3/ FAR Part 36 Stage 3 and whose performances permit to adhere to the SID.

2 To be used by 4-engined aircraft.

EBBR/BRU BRUSSELS NATIONAL

BRUSSELS, BELGIUM

SID

BRUSSELS Tower 118.6 120.77

Apt Elev 184' Trans level: By ATC Trans alt: 4500'

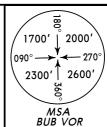
1. After take-off remain on Tower frequency.

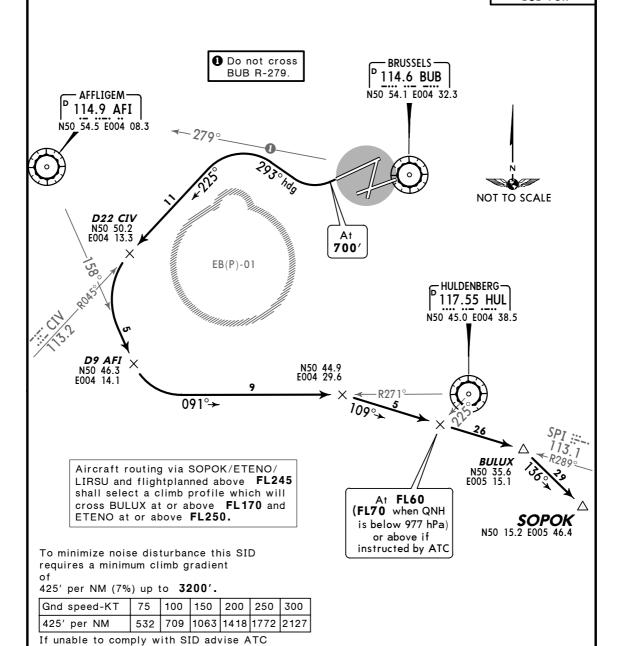
2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

SOPOK THREE ZULU (SOPOK 3Z) [SOPO3Z] RWY 25R DEPARTURE

AVAILABLE BETWEEN 2300-0559LT

STEEDE MAX 250 KT OR CLEAN SPEED (V zf),
WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

INITIAL CLIMB/ROUTING

Climb to **700'**, turn RIGHT, 293° heading, intercept CIV R-045 inbound, at D22 CIV turn LEFT, intercept AFI R-158, at D9 AFI turn LEFT, intercept HUL R-271 inbound, intercept SPI R-289 inbound to BULUX, then to SOPOK.

when requesting start-up clearance

EBBR/BRU BRUSSELS NATIONAL

X JEPPESEN

BRUSSELS, BELGIUM

24 DEC 04 (10-3X2)

BRUSSELS Tower Apt Elev 118.6 184' 120.77

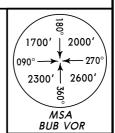
Trans level: By ATC 1. After take-off remain on Tower frequency. 2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

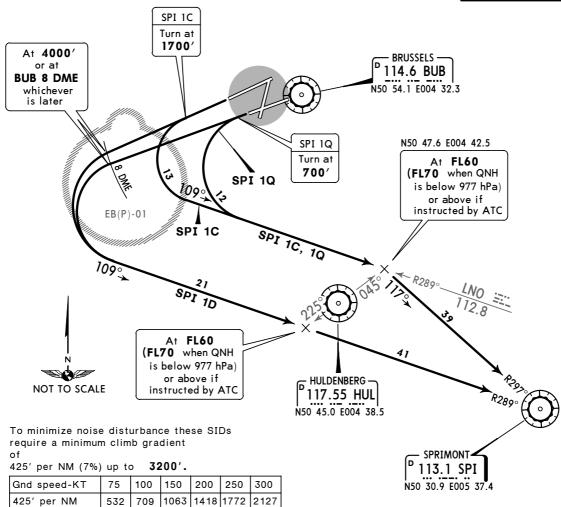
Trans alt: 4500

SPRIMONT

RWYS 25R/L DEPARTURES

FOR SIDS RWYS 02, 07L/R, 20 REFER TO CHART 10-3X3 FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3X4 SPEED MAX 250 KT OR CLEAN SPEED (VZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

		· · · · · · · · · · · · · · · · · · ·
SID	RWY	INITIAL CLIMB/ROUTING
SPI 1C 10 20	25R	Climb straight ahead, at 1700' turn LEFT, intercept LNO R-289 inbound, turn RIGHT, intercept SPI R-297 inbound to SPI.
SPI 1D	25L/R	Climb straight ahead, at 4000' or at BUB 8 DME, whichever is later, turn LEFT, intercept SPI R-289 inbound to SPI.
SPI 1Q	25L	Climb to 700^{\prime} , turn LEFT, intercept LNO R-289 inbound, turn RIGHT, intercept SPI R-297 inbound to SPI.

To be used by 1-, 2-, 3-engined aircraft.

If unable to comply with SID advise ATC when requesting start-up clearance.

May be used by 4-engined aircraft noise certificated according to ICAO Annex 16, Chapter 3/ FAR Part 36 Stage 3 and whose performances permit to adhere to the SID.

- 2 Available between 0600-2259LT.
 3 To be used by 4-engined aircraft.
- 4 SIDs runway 25R only available between 0600-2259LT.

EBBR/BRU BRUSSELS NATIONAL

X JEPPESEN 24 DEC 04 (10-3X3)

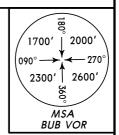
BRUSSELS, BELGIUM

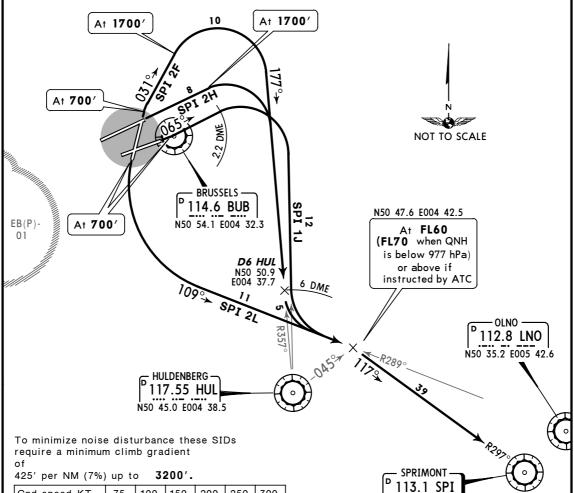
BRUSSELS Tower Apt Elev 118.6 184' 120.77

Trans level: By ATC Trans alt: 4500' 1. After take-off remain on Tower frequency. 2. SIDs are also noise abatement procedures (refer to 10-4E). Strict adherence within the limits of aircraft performance is mandatory, except when being radar vectored.

SPRIMONT

RWYS 02, 07L/R, 20 DEPARTURES FOR NIGHTTIME SID RWY 25R REFER TO CHART 10-3X4 SHEED MAX 250 KT OR CLEAN SPEED (V ZF), WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC





532 If unable to comply with SID advise ATC when requesting start-up clearance.

75

100

709

150

200

1063 1418 1772 2127

250

Initial climb clearance FL60, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

300

		Brideoele control as soon as trainic permits
SID	RWY	INITIAL CLIMB/ROUTING
SPI 2F	02	Climb to 700', 031° track, at 1700' turn RIGHT, intercept HUL R-357 inbound to D6 HUL, turn LEFT, intercept LNO R-289 inbound, turn RIGHT, intercept SPI R-297 inbound to SPI.
SPI 2H	07L	Climb straight ahead, at 1700 ' turn RIGHT, intercept HUL R-357 inbound to D6 HUL, turn LEFT, intercept LNO R-289 inbound, turn RIGHT, intercept SPI R-297 inbound to SPI.
SPI 1J	07R	Climb to 700' , 065° track to BUB 2.2 DME, turn RIGHT towards HUL, at HUL 6 DME turn LEFT, intercept LNO R-289 inbound, turn RIGHT, intercept SPI R-297 inbound to SPI.
SPI 2L	20	Climb to 700' , turn LEFT, intercept LNO R-289 inbound, turn RIGHT, intercept SPI R-297 inbound to SPI.

Gnd speed-KT

425' per NM

N50 30.9 E005 37.4

X JEPPESEN BRUSSELS, BELGIUM EBBR/BRU 24 DEC 04 (10-3X4) **BRUSSELS NATIONAL** Trans level: By ATC Trans alt: 4500 **BRUSSELS** Tower 1. After take-off remain on Tower frequency. Apt Elev 118.6 2. SIDs are also noise abatement procedures (refer to 10-4E). 184' Strict adherence within the limits of aircraft performance is 120.77 mandatory, except when being radar vectored. SPRIMONT THREE ZULU (SPI 3Z) 2000 1700 RWY 25R DEPARTURE กดก 2300' 2600 **AVAILABLE BETWEEN 2300-0559LT** 360 SPEED MAX 250 KT OR CLEAN SPEED (VZF), MSA BUB VOR WHICHEVER IS HIGHER, BELOW FL100 OR AS BY ATC 1 Do not cross BUB R-279 - AFFLIGEM -114.9 AFI N50 54.5 E004 08.3 BRUSSELS -114.6 BUB N50 54.1 E004 32.3 700 EB(P)-01 SPRIMONT 113.1 SPI N50 30.9 E005 37.4 16 091°→ HULDENBERG 117.55 HUL N50 45.0 E004 38.5 At FL60 (FL70 when QNH is below 977 hPa) NOT TO SCALE or above if instructed by ATC To minimize noise disturbance this SID requires a minimum climb gradient 425' per NM (7%) up to 3200'. Gnd speed-KT 100 300 75 150 200 250

Initial climb clearance **FL60**, higher level by BRUSSELS Departure or BRUSSELS Control as soon as traffic permits

1418 1772

INITIAL CLIMB/ROUTING

Climb to **700'**, turn RIGHT, 293° heading, intercept CIV R-045 inbound, at D22 CIV turn LEFT, intercept AFI R-158, at D9 AFI turn LEFT, intercept HUL R-271 inbound to HUL, intercept SPI R-292 inbound to SPI.

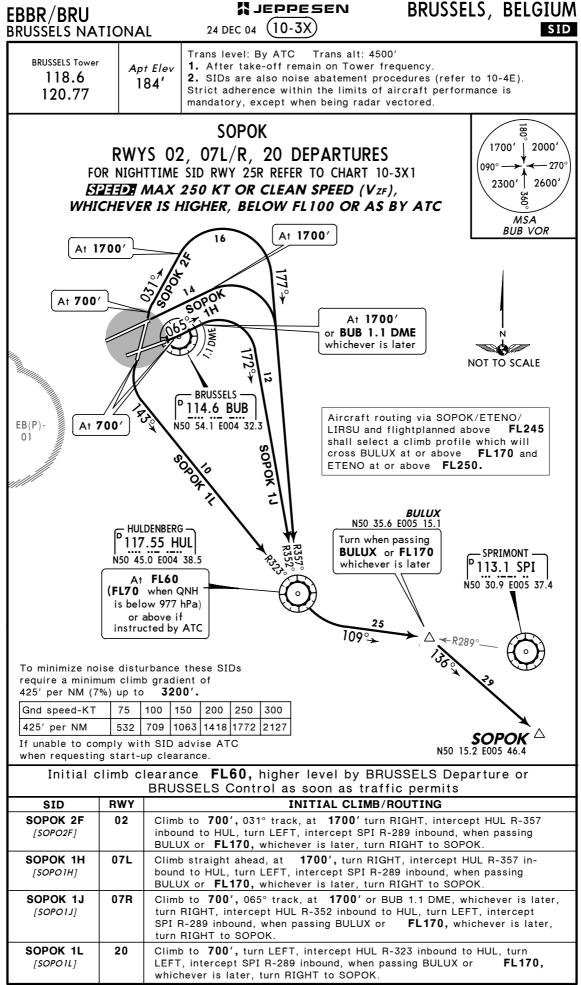
425' per NM

532

If unable to comply with SID advise ATC when requesting start-up clearance.

709

1063



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BRUSSELS, BELGIUM

BRUSSELS NATIONAL

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[10-4]

NOISE

NOISE ABATEMENT PROCEDURES

SUMMER: LT minus 2 HOURS = UTC (Z) WINTER: LT minus 1 HOUR = UTC (Z)

PREFERENTIAL RUNWAY SYSTEM

The direction in which aircraft take-off and land is determined by the surface wind (speed and direction) and the preferential runway system.

The term "runway-in-use" shall be used to indicate the runway that at a particular time is considered by a unit providing aerodrome control service to be the most suitable for use by the types of aircraft expected to land or take off at the aerodrome.

Normally an aircraft will land and take off into wind, unless safety, runway configuration or traffic conditions determine that a different direction is preferable. However, in selecting the runway-in-use, the unit providing aerodrome control service shall take into consideration, besides surface wind, speed and direction, other relevant factors such as the aerodrome traffic circuits, the length of the runway, the approach and landing aids available, meteorological conditions, aircraft performance and the noise abatement.

Accepting a runway is a pilots decision. If the PIC considers that the operation involved is not feasible for safety and performance reasons on the runway-in-use, he shall request permission to use another runway. ATC will accede to such request, provided traffic and air safety conditions permit.

Take-off from another runway than the assigned one will be allowed after approval from the Airport Authority. When the pilot requests to use another runway, he must submit a written report (the operator is responsible for proper reporting procedures).

During daytime (0600-2259LT) following procedure will be applied:

MON - FRI 0600-2259: Take-off runway 25R - Landing runways 25R/L;

SAT 0600-2259: Take-off runway 07R (to CIV, LNO, PITES, ROUSY, SOPOK, SPI),

07L (to NIK), 02 (to DENUT & HELEN) (odd week) or 25R (even

week) - Landing runway 02 (odd week) or 25R/L (even week);

SUN 0600-1659: Take-off runway 20 - Landing runways 25R/L; SUN 1700-2259: Take-off runway 25R - Landing runways 25R/L. During the night period (2300-0559LT) following procedure will be applied: MON 2300-TUE 0259: Take-off runway 20 - Landing runways 25R/L;

TUE 0300-0559: Take-off runways 07R (to CIV, LNO, PITES, ROUSY, SOPOK,

SPI), 07L (to NIK), 02 (to DENUT & HELEN) - Landing runway 02;

TUE 2300-WED 0559: Take-off runways 25R, 20 - Landing runways 25L/R; WED 2300-THU 0259: Take-off runway 25R - Landing runways 25R/L;

THU 0300-0559: Take-off runways 02 (to DENUT & HELEN), 07R (to CIV, LNO,

PITES, ROUSY, SOPOK, SPI), 07L (to NIK) - Landing runway 02;

THU 2300-FRI 0559: Take-off runways 25R, 20 - Landing runways 25R/L;

FRI 2300-SAT 0259: Take-off runway 20 - Landing runways 25R/L;

SAT 0300-0559: Take-off runways 02 (to DENUT & HELEN), 07R (to CIV, LNO,

PITES, ROUSY, SOPOK, SPI), 07L (to NIK) - Landing runway 02;

SAT 2300-SUN 0559: Take-off runway 25L - Landing runway 25R;

SUN 2300-MON 0559: Take-off runways 25R, 20 - Landing runways 25R/L.

The Preferential Runway System is not the determining factor under the following circumstances:

- runways 25R/L, 07L/R: when runways are dry or wet and the cross- and/or tailwind components exceed respectively 15 KT and 5 KT (gusts included);
- runways 20, 02: for landing aircraft when runways are dry or wet and the cross- and/or tailwind components exceed respectively 15 KT and 5 KT (gusts included);
- runways 20, 02: for departing aircraft between 2300-0559LT when runways are dry or wet and the cross- and/or tailwind components exceed respectively 15 KT and 5 KT (gusts included);

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BRUSSELS, BELGIUM

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NOISE

NOISE ABATEMENT PROCEDURES

PREFERENTIAL RUNWAY SYSTEM (cont'd)

- runways 20, 02: for departing aircraft between 0600-2259LT when runways are dry or wet and the cross- and/or tailwind components exceed respectively 15 KT and 0 KT (gusts included):
- when runways are contaminated or when braking action is less than good;
- during low visibility operations;
- when alternative runways are successively requested by pilots for safety reasons;
- when wind shear has been reported or forecasted or when thunderstorms are expected to affect the approach or departure.

When the components exceed the values stated above, a runway more nearly into wind will be assigned. However, runways 07L and 07R shall not be used for landing, except when no other suitable runway is available. When runway 02 is in use and in order to expedite departing traffic, departures from runway 07R from line-up position "H", intersection C6 or PAPI position can be intercalated between arrivals on runway 02.

In headwind configurations the crosswind component is not a limiting factor for take-off which are conducted on pilots' responsibility and at ATC discretion.

Times of runways changeover are subject to flexibility in order to ensure transition in safe conditions. ATC will operate the changeover as close as possible from the indicated time taken into account traffic conditions.

ARRIVALS

Avoid overflying the city of Brussels.

Aircraft using the ILS shall intercept the glide path at or above 2000' for runways 25L and 25R, respectively 3000' and 2000' when simultaneous approaches are in progress, 2000' for runway 02 and 3000' for runway 20, nor thereafter fly below the corresponding glide path.

Aircraft making a radar approach without ILS assistance shall not descend below 2000' before reaching 6 NM from touchdown, nor thereafter fly below a descent path corresponding to a glide path of 3°. Aircraft making a visual approach without radar or ILS assistance shall not descend below 1800' before intercepting the approach slope of the PAPI, nor thereafter fly below it.

Noise abatement procedures utilizing continuous descent and reduced power/drag techniques should be used by all aircraft when operating conditions are as follows:

- ILS available:
- Runway clear and dry;
- Visibility higher than 1900 m;
- Ceiling higher than 500' AAL;
- Tail-wind component, including gusts, lower than 5 KT;
- Crosswind component, including gusts, lower than 15 KT;
- No adverse weather conditions that may affect the approach (such as reported or forecasted wind shears or thunderstorms).

The pilot-in-command of a turbo-jet powered aircraft shall use, as a final flap setting, the minimum certificated landing flap setting set forth in the approved Aircraft Flight Manual for the applicable conditions.

However, each pilot-in-command has the final authority and responsibility for the safe operation of his aircraft and may use a different flap setting approved for that aircraft if he determines that it is necessary in the interest of safety.

DEPARTURES

TURBO-JET POWERED AIRCRAFT

Take-off to 1700' Take-off power;

Take-off flaps:

Climb at V₂ + 10 KT to 20 KT (or as limited by body angle).

At 1700' Reduce thrust to not less than climb thrust.

1700'-3200' Climb at $V_2 + 10$ KT to 20 KT.

At 3200' Accelerate smoothly to enroute climb speed with flap retraction.

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15 OCT 04 (10-4B) Eff 28 Oct

BRUSSELS, BELGIUM

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NOISE

NOISE ABATEMENT PROCEDURES

DEPARTURES (cont'd) PROPELLER AIRCRAFT

Take-off to 1700' Take-off power;

Climb at the maximum gradient compatible with safety; Speed not less than single engine climb speed, nor higher than

best rate of climb speed.

At 1700' Reduce power to the maximum normal operating power if this power

has been used for showing compliance with the noise certification

requirements or to the maximum climb power.

1700'-3200' Climb at the maximum gradient with reduced power, maintaining

constant speed.

Above 3200' Accelerate smoothly to enroute climb speed.

NIGHTTIME RESTRICTIONS

Between 2300-0600LT only four aircraft will be authorized to taxi at the same time to the holding position of the runway in use. Additionally only three aircraft will be allowed to remain at the holding position awaiting take-off clearance.

AIRCRAFT CLASSIFIED ACCORDING TO ICAO ANNEX 16, CHAPTER 2

Take-off and landing of aircraft classified according to ICAO Annex 16, Chapter 2 are forbidden.

Excluded are:

- Take-offs and landings of aircraft carrying members of the Belgian Royal Family, of the Belgian government, of Regional and Community governments, of foreign royal families, heads of State or leaders of foreign governments, presidents and commissioners of the European Union on official mission;
- Take-offs and landings performed with regard to missions in case of disasters or for the purpose of medical assistance;
- Take-offs and landings concerning military missions;
- Take-offs and landings performed in exceptional conditions such as:
 - flights on which there is an immediate danger to the life or health of persons as well as animals or
 - flights diverted to Brussels National for meteorological reasons.

The Minister of Mobility and Transport may exceptionally and on explicitly justified request authorize the take-off or landing of a non compliant aircraft.

PPR obtainable from:

Civil Aviation Authority

CCN

Rue du Progres/Vooruitgangstraat, 80/5

B-1030 Brussels

Belgium

Tel: ++ 32(0) 2 206 32 11 / Fax: ++ 32(0) 2 203 15 28

E-mail: civilair@mobilit.fgov.be

SPECIAL NOISE ABATEMENT PROCEDURES FOR ARRIVALS AT NIGHT (2300-0559LT)

In addition to the other rules published the following procedures will be applied by air traffic controllers and pilots-in-command:

Traffic leaving IAF KERKY for approach on runways 25L and 25R will not be cleared to descend below FL70 until crossing BUB R-360. On all ILS equipped runways the ILS LOC/glide path shall not be intercepted at less than 11 NM from threshold and not below 3000'.

When simultaneous dependent IFR approaches are in progress, the minimum altitude to intercept the ILS LOC/glide path will be respectively 3000^{\prime} for runway 25R and 4000^{\prime} for runway 25L.

The minimum flight level available for arrivals within the Belgian airspace for General Aviation Traffic is FL 50.

Notice: After 17.3.2005 0901Z this chart should not be used without first checking JeppView or NOTAMs.

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X JEPPESEN 15 OCT 04 (10-4C) Eff 28 Oct

BRUSSELS, BELGIUM

NOISE ABATEMENT PROCEDURES

NIGHTTIME RESTRICTIONS (cont'd) SPECIAL NOISE ABATEMENT PROCEDURES FOR DEPARTURES AT NIGHT (2300-0559LT)

Take-off from another runway than the assigned one will only be allowed after approval from the airport authority. This approval can only be granted for safety reasons. If such approval has been obtained, this will be stated when requesting start-up and ATC clearance.

All departures from runway 25R shall start their take-off at the beginning of the runway and preferably an uninterrupted take-off from P3 will be made after entering the runway. When runway 25R and 20 are take-off runway in use, runway 20 will be assigned to traffic routing via LNO, PITES, ROUSY, SOPOK or SPI. Other traffic will be assigned runway 25R.

When runway 25R or 25L is take-off runway in use, special types of acft only will be allocated CIV 6D or CIV 1Q if routing via CIV.

The minimum flight level available for departures within the Belgian airspace for General Aviation Traffic is FL50.

NOISE QUOTA SYSTEM DURING NIGHT (2300-0600LT) AND EARLY MORNING (0601-0700LT)

For movements with aircraft with MTOW of 8618 KGS or less or any other aircraft that has been certified according to ICAO Annex 16 with exception of chapter 2, 3 and 5 the Quota Count (QC) is 1.

Take-off and landing with QC > 12 is forbidden between 2300-0600LT. Take-off and landing with QC > 24 is forbidden between 0601-0700LT. Excluded are:

- Take-offs and landings of aircraft carrying members of the Belgian Royal Family, the Belgian government, the Regional and Community governments, foreign royal families, heads of state or leaders of foreign governments, presidents and commissioners of the European Union on official mission;
- Take-offs and landings performed with regard to missions in case of disasters or for the purpose of medical assistance;
- Take-offs and landings concerning military missions;
- Take-offs and landings performed in exceptional conditions such as:
 - flights on which there is an immediate danger to the life or health of persons as well as animals or
 - flights diverted to Brussels National for meteorological reasons.

The Director General of the CAA may exceptionally and on explicitly justified request authorize the take-off or landing of a non compliant aircraft.

PPR obtainable from:

Civil Aviation Authority

CCN

Rue du Progres/Vooruitgangstraat, 80/5

B-1030 Brussels

Belaium

Tel: ++ 32(0) 2 206 32 11 / Fax: ++ 32(0) 2 203 15 28

E-mail: civilair@mobilit.fgov.be

REVERSE THRUST

Reverse thrust or reverse pitch propeller other than idle thrust or power shall not be used between 2300-0559LT except for safety reasons.

RUN-UP TESTS

It is applied as a general rule that idle thrust engine test-runs in the open air and without silencers must be restricted to the very minimum. The previous authorization of the Airport Management - Airport Inspection Department - is required. The Airport Management has the right to stop or restrict all ongoing manoeuvres in the event of airport regulations being violated or circumstances arising that necessitate such a decision

Engine test-runs in the open air and without silencers may only take place:

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15 OCT 04 (10-4D) Eff 28 Oct

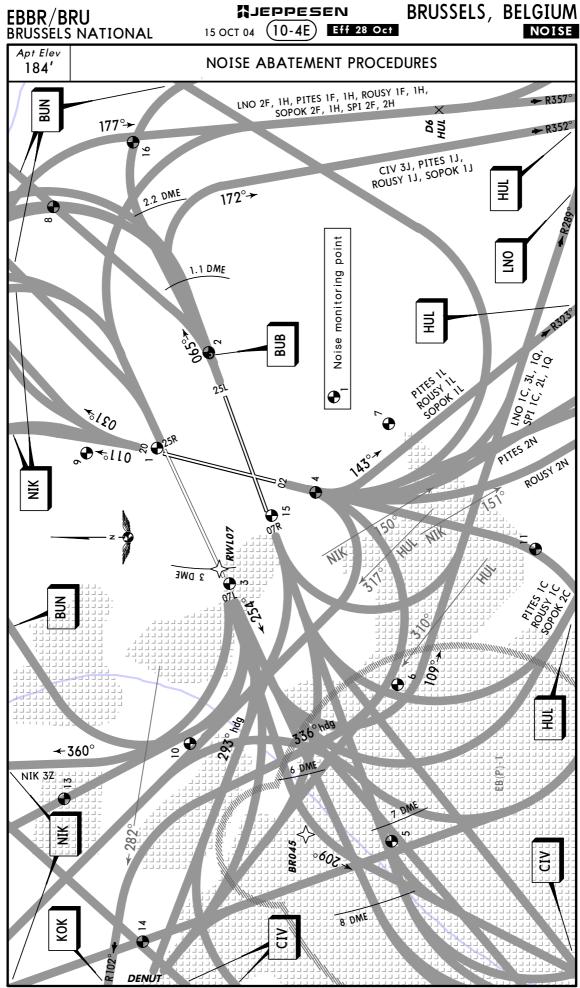
BRUSSELS, BELGIUM

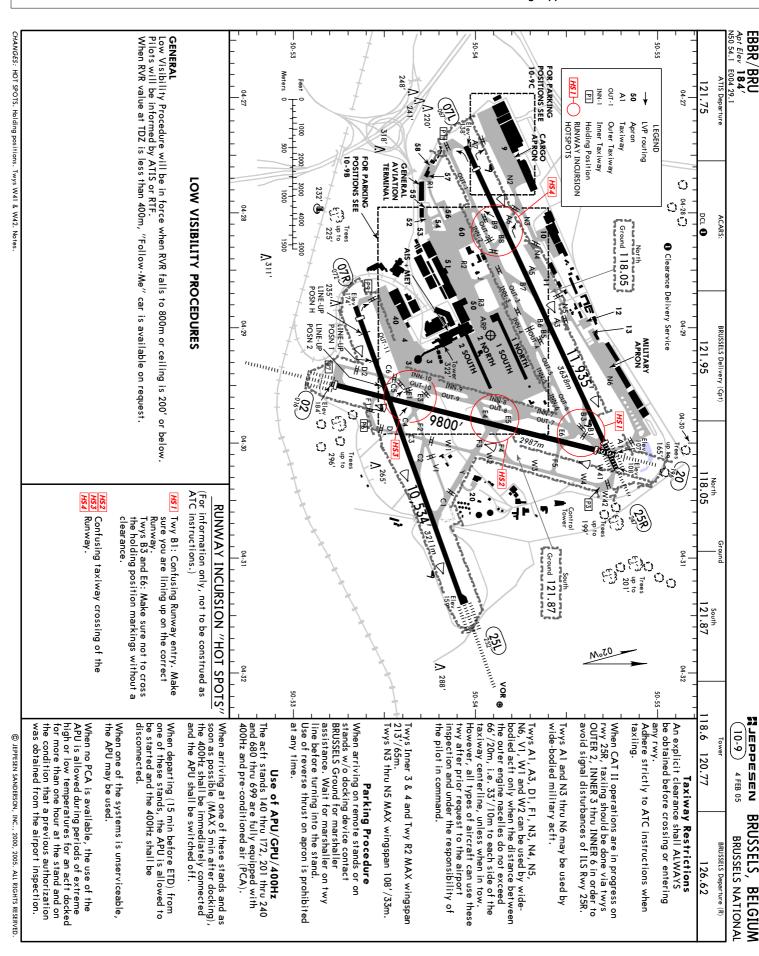
NOISE

NOISE ABATEMENT PROCEDURES

RUN-UP TESTS (cont'd)

- at the crossing of taxiways F3, Y, W1 and W2 or
- on holding bay P7 (only in case of unavailability of the crossing of taxiways F3, Y, W1 and W2)
 - and only between 0700-2200LT on the condition that a previous authorization was obtained from the Airport Inspection.
 - Between 2300-0600LT run-ups of engines are not allowed at the holding position, except for run-up tests made immediately before the take-off as part of the take-off procedure.





START-UP PROCEDURE

START-UP APPROVAL

Start-up approval must be obtained from "Brussels Delivery" or via Digital Data Link

procedure for pilots to "report ready".

EOBT is automatically considered as TOBT-H for non TOBT participants and for all flights without a TOBT-H. The TOBT procedure is complementary to the present CFMU slot concept, the CPDLC concept and the TOBT participants shall transmit their TOBT-H to BIAC CDB either directly, or via Belgocontrol AMS.

Transmittal of TOBT-H: From EOBT -40 min till EOBT -20 min.

For non-regulated flights: ETOT = EOBT + tax out time. For regulated flights: CTOT = EOBT + tax out time. For regulated flights: CTOT = EOBT + tax out time is set at 15 min (under normal weather conditions) for departure Rwy 25R and 20 min for Rwy 20, 25L and the combination Rwy 02 and 07R.

Transmission of new TOBT-H is limited to a maximum of 3 times.

value: TOBT-S (can never be earlier than TOBT-H). Processing of TOBT-H by ATC (Tower delivery position), resulting in acceptance or change into new

TOBT Acronyms:

	ТОВТ	Target off block time
Handler	товт-н	Target off block time with indicator H: Confirmation of estimated ready time by the Airliner/Handler
	товт-с	Target off block time Void (by Aircraft operator or Handler) (VOID = Cancelled)
ATC	товт-ѕ	Target off block time Start-Up Sequence confirmation of the aircraft based on the TOBT-time (by Tower Delivery Controller)
	TOBT-D	Target off block time Denied (by Tower Delivery Controller)
	TOBT-N	Target off block time New (Renewal of TOBT-S) (by Tower Delivery Controller)
	товт-х	Target off block time Void, e.g. in case of airport disruption (fog. de-icing) (by Tower Delivery Controller)

Pilots will call "Brussels Delivery" only when they will be ready for start-up in accordance with their GFMU slot (and related TOBT-S +3 min) if any, for push-back and/or ready for taxi immediately after reception of ATC clearance.

ATC CLEARANCE
THE TOBT-S will be transmitted within a period of 5 min after receipt of the TOBT-H according a strict
ATC procedure, in function of CFMU slots, the airport's operational status and at the latest at the end of
the TOBT-H window + 5 min.
Start-up earlier than EOBT-3 min or TOBT-S - 3 min will depend on ATC discretion (pre-departure

sequence availibility).

Pilots not calling or starting at EOBT or TOBT-S:
- If at EOBT + 3 min (for non TOBT flights) no start-lup Request (SUR) has been received by Belogocontrol, no Actual Off Block Time (AOBT) on os tart-lup Request (SUR) has been received by Belogocontrol, the aircraft loses its number in sequence and will only be re-sequenced after pilot's call.

appropriate place in the departing sequencing. A new TOBT-H (for TOBT participants) may be sent accordingly by the Airline/Handler to ensure the

Aircraft requiring full rwy length shall include this in their start-up request. Pilots are reminded that noise abatement procedures affecting declared distances of some rwys remain to be adhered to.

Rwy 25L approved for CAT II/III and Rwy 25R for CAT II operations, special aircrew and acft certification required.

All rwys have an anti-skid layer

02 HIRL HIRL CL (15m) HIALS-II TDZ PAPI-L (3.0°) CL (15m) HIALS PAPI-L (3.0°) ADDITIONAL RUNWAY INFORMATION **⊕** RVR 9649' 2941m 9078' 2767m Threshold USABLE LENGTHS ____ 8141' 2481m 8541' 2603m Glide Slope TAKE-OFF 0 WIDTH 164' 50m

HSI-E5			
TAKE-OFF RUN AVAILABLE			
RWY 02:		RWY 20:	
From rwy head	9800' (2987m)	From rwy head	-
twy C5 int	7628' (2325m)	twy B1 int	-
twy E1 int	6808' (2075m)	twy E6 int	7100' (2164m)
twy E3 int	6654' (2028m)	twy E4/E5 int	5112' (1558m)
twy E4 int	4111' (1253m)		

00

4111' (1253m) VIS is 2km or more,

Intersection take-off run available on pilot's acceptance if pilots unable to accept should advise ATC duly in advance.

_								
_	07L	HIRL CL (15m) PAPI-L (3.0°)		11,089	11,089′ <i>3380m</i>		•	148′
_	25R	25R HIRL CL (15m) HIALS-II TDZ PAPI-R (3.0°) 10,951' 3338m 10,033' 3058m	🛭 RVR	10,951	3338m	10,033′ <i>3058m</i>	d	45m
_	В-ТЅН 🚱	❸ HST-B6, B7, B9						
	OTAKE-	TAKE-OFF RUN AVAILABLE						
_	RWY 071 ·)7 .	RWY 25R.	ž.				

From rwy head	RWY 07L:	TAKE-OFF RUN AVAILABLE
Ξ		

(E-OFF RUN AVAILABLE			
Y 07L:		RWY 25R:	
m rwy head	11,935' (3638m)	From rwy head	
twy B8 int	8537' (2602m)	twy B1 int	
twy A6 int	8481' (2585m)	twy B3 int	
twy B9 int	8261' (2518m)	twy B5 int	
twy A5 int	7047' (2148m)	twy A3 int	
twy B7 int	6086' (1855m)	twy B6 int	
twy A3 int	5151' (1570m)	twy B7 int	4970' (1515m)
twy B5 int	4941' (1506m)	twy A5 int	
twy B6 int	4557' (1389m)		

pilots unable to accept should advise ATC duly in advance Intersection take-off run available on pilot's acceptance if

VIS is 2km or more,

m) PAPI-L (angle 3.0°) 10,121' 3085m 0393' 2863m 0 0 0 0 0 0 0 0 0	 		
10,121' <i>3085m</i>	9393' 28	S RVR	HIRL CL /15m) HIALS-II TDZ PAPI-L (3.0°)
	10,121′ <i>3085m</i>		HIRL CL (15m) PAPI-L (angle 3.0°)

HST-C2 TAKE-OFF RUN AVAILABLE RWY 07R: From Line-up PSN H

07R

25L

	5879' (1792m)	twy C3/C4 int
	7047' (2148m)	twy C5 int
twy	7680' (2341m)	Line-up PSN 2
twy (7890' (2405m)	twy C6 int
twy (8609' (2624m)	Line-up PSN 1
From rwy h	9485' (2891m)	n Line-up PSN H
RWY 25L:		07R:

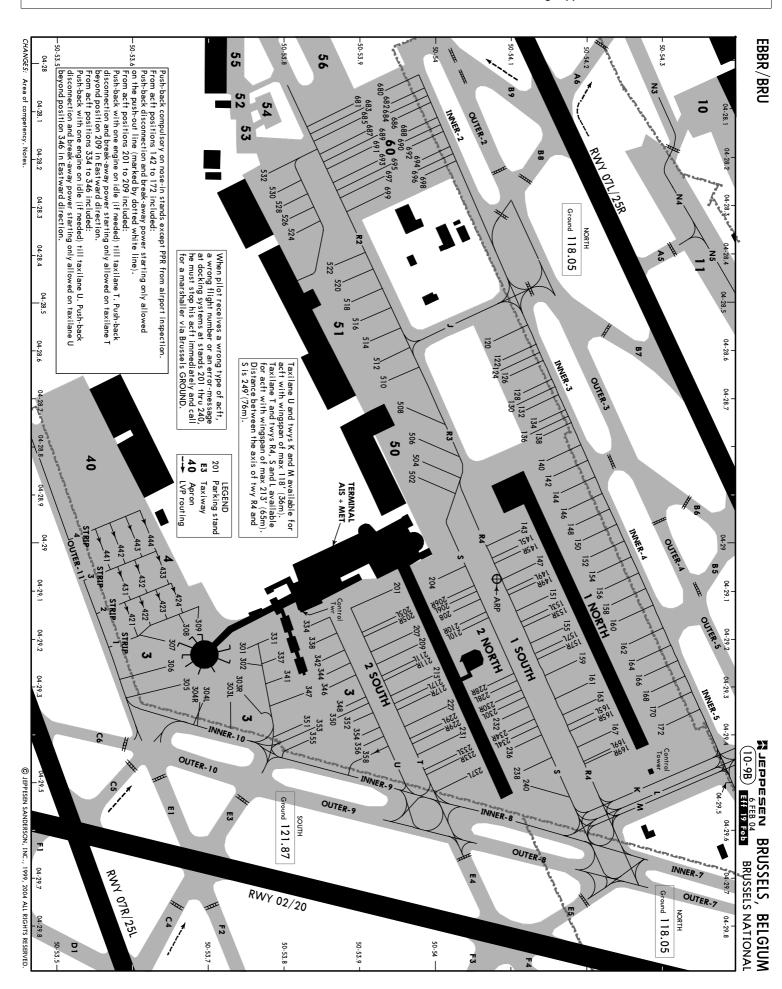
	5879' (1792m)	int
	7047' (2148m)	_
tw,	7680' (2341m)	2
tw,	7890' (2405m)	_
tw,	8609' (2624m)	Z
From rwy	9485' (2891m)	I
VAA VOL		

	RWY 25L:
	From rwy head
	twy C1 int
	twy C2 int
<u> </u>	twy C3/C4 int

10,534' (3211m) 7251' (2210m) 5545' (1690m) 4058' (1237m)

VIS is 2km or more,	Intersection take-off run available on pilot's acceptance if pilots unable to accept should advise ATC duly in advance.	Interse pilots u
	1W 9 CO/ C# 1111 3077 (1772111)	

ŀ	JAK-OPS		TAKE-	TAKE-OFF		
	Rwys 0	Rwys 02, 25L/R	R۷	Rwys 02, 07L/R, 25L/R	L/R	All Rwys
	LVP must	LVP must be in Force	LVP must	LVP must be in Force		
	Approved					
	Operators					
	HIRL, CL	RL, CL		RCLM (DAY only)	RCLM (DAY only)	NI.
Г	& mult. RVR req	& mult. RVR req	RL & CL	or RL	or RL	(DAY only)
➤						
В	160	150m	200m	250m	}	
\circ	13011				400m	500m
D		200m	250m	300m		
П	Operators applyin	Operators applying U.S. Ops Specs: CL required below 300m.	L required below 3(00m.		
_						



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337 338 341 thru 347 348, 350 351	301 302 thru 306 307 308 309 331, 334	201 205L/R thru 209 211L/R thru 217L/R 217 thru 233L 233R 237L	204, 206L/R 208, 210L/R 228L/R 230L 230R 230R 232 thru 236 238, 240	169L/R	143 thru 147 149L/R thru 153L/R 155 thru 159 161 thru 165L 165R, 167	154 thru 158 160 162, 164 166 thru 170 172	120 thru 126 128 thru 134 136 thru 140 142 thru 146 148 thru 152	STAND No.	
N50 53.8 E004 29.3 N50 53.8 E004 29.2 N50 53.8 E004 29.3 N50 53.9 E004 29.4 N50 53.8 E004 29.4	APRON 3 N50 53.7 E004 29.2 N50 53.7 E004 29.3 N50 53.6 E004 29.2 N50 53.7 E004 29.2 N50 53.8 E004 29.2	N50 54.0 E N50 54.1 E	N50 54.0 E004 29.1 N50 54.1 E004 29.2 N50 54.1 E004 29.3 N50 54.1 E004 29.4 N50 54.1 E004 29.3 N50 54.1 E004 29.4 N50 54.1 E004 29.5		APRON 1 SOUTH N50 54.1 E004 29.0 N50 54.2 E004 29.1 N50 54.2 E004 29.2 N50 54.2 E004 29.3 N50 54.2 E004 29.3	N50 54.2 E004 29.1 N50 54.2 E004 29.2 N50 54.3 E004 29.2 N50 54.3 E004 29.3 N50 54.3 E004 29.3	APRON I NORTH N50 54.1 E004 28.6 N50 54.1 E004 28.7 N50 54.1 E004 28.8 N50 54.2 E004 28.9 N50 54.2 E004 29.0	COORDINATES	INS COC
	696 697 698 699	680, 681 682 thru 691 692, 693 694 695	510 512, 514 516, 518 520, 522 524 thru 528 530, 532	502 504, 506 508	901 thru 903 904 thru 908 909 thru 913 914 thru 917 918, 919 920 thru 924	421 thru 423 424 thru 433 441 442 thru 444	352 353 354 355 356, 358	STAND No.	COORDINATES
	N50 54.0 E004 28.2 N50 53.9 E004 28.2 N50 54.0 E004 28.2 N50 53.9 E004 28.2	APRON 60 N50 53.9 E004 28.0 N50 53.9 E004 28.1 N50 53.9 E004 28.2 N50 54.0 E004 28.2 N50 53.9 E004 28.2	APRON 51 N50 53.9 E004 28.7 N50 53.9 E004 28.6 N50 53.9 E004 28.4 N50 53.8 E004 28.3 N50 53.8 E004 28.3	APRON 50 N50 54.0 E004 28.9 N50 54.0 E004 28.8 N50 54.0 E004 28.7	N50 54.2 E004 27.7 N50 54.2 E004 27.6 N50 54.2 E004 27.5 N50 54.2 E004 27.4 N50 54.1 E004 27.4 N50 54.1 E004 27.3	N50 53.6 E004 29.2 N50 53.6 E004 29.1 N50 53.5 E004 29.0 N50 53.6 E004 29.0 APRON 9	N50 53.9 E004 29.4 N50 53.8 E004 29.4 N50 53.9 E004 29.4 N50 53.9 E004 29.4 N50 53.9 E004 29.5 APRON 4	COORDINATES	
					N1	923 921 919 9 90 924 922 924 922 924 925 925 925 925 925 925 925 925 925 925	9 Apron	924	** 04-27 04-27.1 04-27.2 04-27.3 04-27.4 04-27.5 (
					RWN 07L 25R 50.54	00-54.1 Ground 118.05	905 903 901 50-54, 908 906 904 901 50-54, 911 909 907 908 906 904 912 910 908 907 908 907 908 907 908 908 908 908 908 908 908 908 908 908		BRUSSELS NATIONAL

Notice: After 17.3.2005 0901Z this chart should not be used without first checking JeppView or NOTAMs.

EBBR/BRU

X JEPPESEN (10-9D)4 FEB 05

BRUSSELS, BELGIUM **BRUSSELS NATIONAL**

DOCKING GUIDANCE SYSTEM

A docking guidance system is available at aircraft parking positions 140 till 172, 201 till 240 and 680 till 699. The guidance to those positions may be executed by marshallers on request via the Ground Frequencies.

Note

When a pilot receives either a wrong type of aircraft, a wrong flight number, an ERRmessage, an ESTOP emergency stop or the display becomes unreadable, he must stop immediately his aircraft and call for assistance of a marshaller via the Ground Frequencies.

OPERATIONAL AND INFORMATION MESSAGES

Aircraft parking positions 140 till 172 and 680 till 699

Flight number/Aircraft type: The gate is ready for docking

flashing Aircraft not detected as long as flashing occurs

Aircraft type steadily: Aircraft has been detected, AC symbol on the display and

system guides the pilot.

Distance to stop position (in meters), approach slowly to Distance:

the stop position

Correction left required Arrow: Correction right required

Stop now, the docking position is reached

OK: Docking succesful

STOP TOO FAR: The pilot went past the stop position

The emergency stop has been activated. Stop aircraft **ESTOP**:

immediately, wait for marshaller instructions to resume docking procedure.

The bridge is not in a good position (not applicable for **BRIN/STOP:**

positions 680 till 699). Stop the aircraft, wait for

marshaller instructions.

Note

STOP:

Pilot must stop and contact Ground Control and wait for marshaller guidance:

- if the pilot does not get a steady aircraft type read out on the top of display and an indication on guidance by system until the aircraft nose reached the passengers boarding bridge:

- if the pilot believes system is transmitting erroneous docking data.

Aircraft parking positions 201 till 240

TEST/STOP: The system starts and runs a test **WAIT/STOP:** The system waits for the order to start **BRIN/STOP:** The bridge is not in a good position STBY/STOP: The emergency stop has been activated The pilot went 5'/1.5m past the stop position TOO followed by FAR:

SLOW: The aircraft was driving at more than 3m/s at 72'/22m

from the stop position

Flight number: Displayed until the aircraft is at $\pm -98'/30m$ from the stop

position

Aircraft type: Remains fixed as from 69'/21m from the stop position

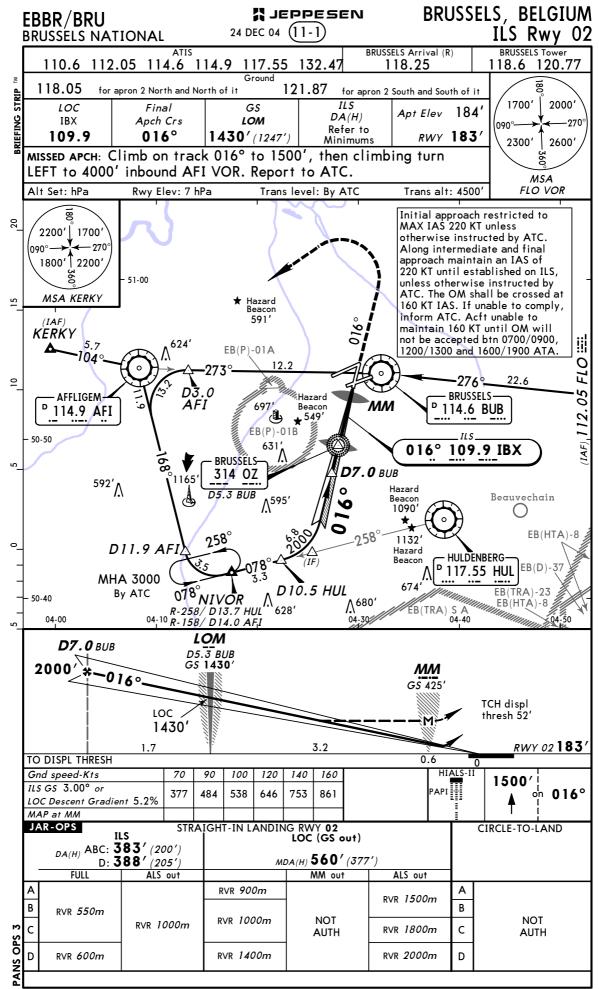
onwards

STOP followed by OK: Aircraft stopped on the right position

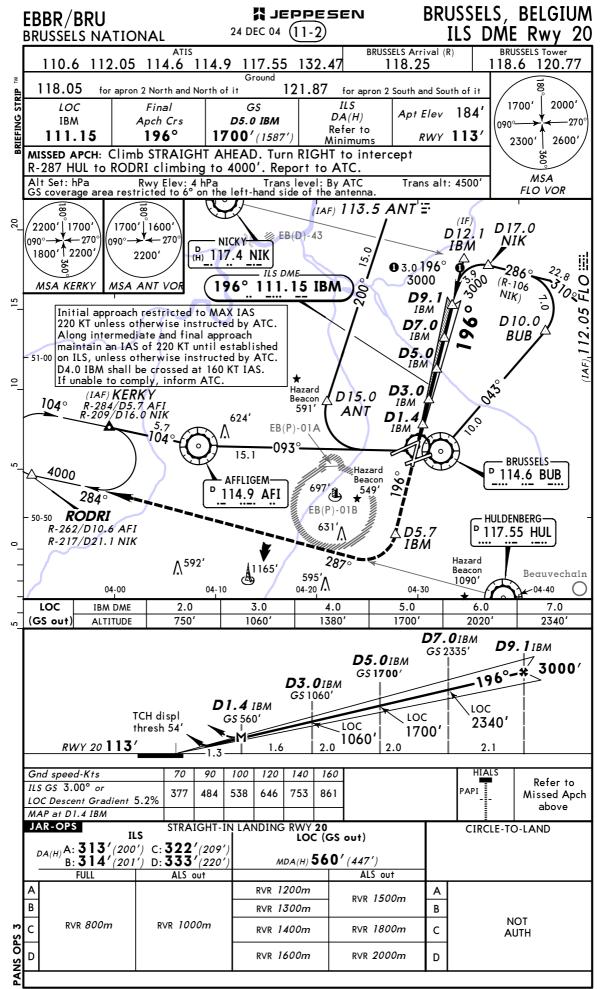
Note

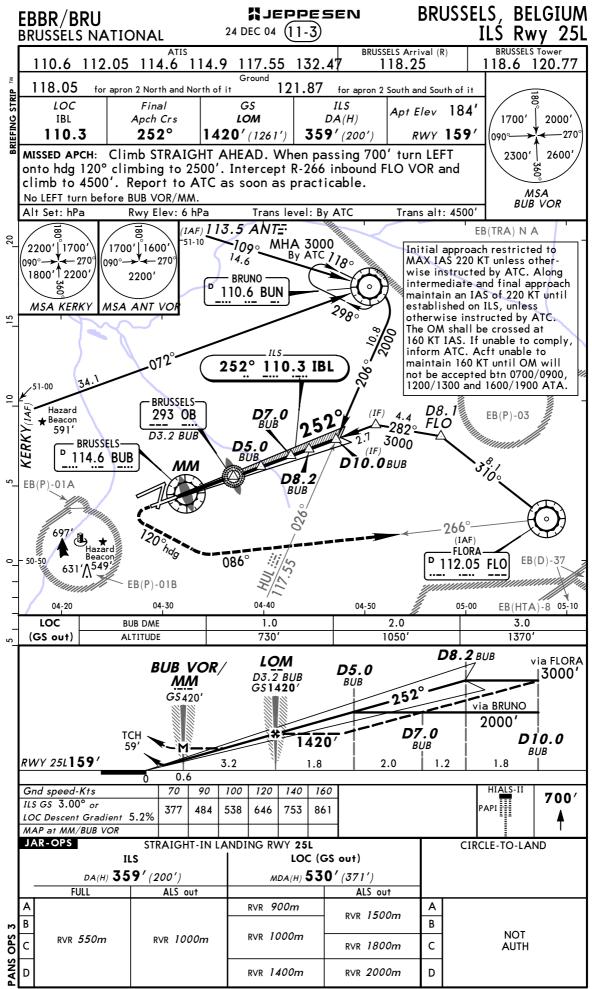
Two messages at the same time are always shown in an alternate way.

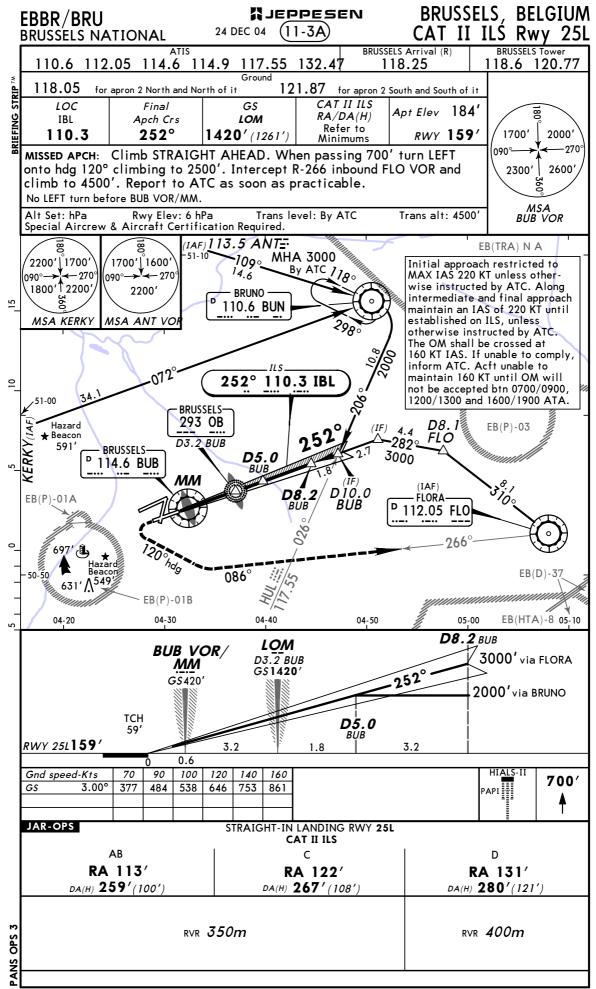
Notice: After 17.3.2005 0901Z this chart should not be used without first checking JeppView or NOTAMs.



CHANGES: Communications. Rwy elev. MSA.







	EBBR/BRU			PESEN	BRUSS SIMULTANEOUS	SELS, BELG	HUM
	BRUSSELS NATIONA	۸L	24 DEC 04 (1	1-4)	SIMULTANEOUS DEPENDENT APC	_H ILŚ Rwy	25L
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ž.	Ground						
BRIEFING STRIP	118.05 for apron 2 No	orth and North of	it 12 GS	1.87 for apri	on 2 South and South of	─ / ※	
Š	IBL April	hai h Crs	LOM	DA(H)	Apt Elev 18	'4'	000'
IEFI	110.3 25		20′ (1261′)	359′(200	') RWY 15	9 ′ (090° 	—270°
8	MISSED APCH: Climb		· /	· · · · · · · · · · · · · · · · · · ·	<i>'</i>	\ _{2300'}	2600'/
	onto hdg 120° climbir	360					
	climb to 4500'. Repo	ort to ATC a				MSA	
	No LEFT turn before BUB					BUB VO	
70	Alt Set: hPa Rwy	Elev: 6 hPa	Trans le	vel: By ATC	Trans alt: 450		
	Simultaneous ILS approa				URING SIMULTANEO		1
	Initial approach restrict wise instructed by ATC.				LOTS MUST EXECU ITERCEPTION (DO N		
	approach maintain an IA	AS of 220 KT ur	ntil establishe	ed on R-	070 BUB VOR).	EB (TRA	A) N A
2	ILS, unless otherwise in crossed at 160 KT IAS. 1						
15	Acft unable to maintain	160 KT until C	DM will not be	•	o 🗡		
	accepted btn 0700/0900	, 1200/1300 ai	BRUSSE —		_070°_	EB(P)-03	-
			293 ((IF) 4.4		
		JSSELS—		IIB	282° A		
01	591'	6 BUB		0 D8			
_				252 BU		1	
	EB(P)-01A			,	720	10°	
	Hazard		25	2° 110.3	IRI	<u> </u>	A
	697 Beacon	· M/		<u> </u>	/	266°	(\circ)
-2	L 1349	20%				(IAF)	
	- 50-50 EB(P)-01B	ndg -	086°			P 112 05 FLC) -
	- 50-50 EB(P)-01B		•				.]
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_		1	★ 1132′				
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_	04-20	04-30	574'Λ 04-40		04-50	05-00	05-10
-2	04-20	1 1	/-\				03-10
	LOM D8.2 BUB						
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тсн							
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	JAR-OPS ST	RAIGHT-IN LA	_	OC (GS out)			
	ILS DA(H) 359' (200')	_	.OC (GS out)			
	ILS DA(H) 359' (_	OC (GS out)			
	ILS DA(H) 359' (FULL	200')	_	OC (GS out)	A		
	ILS DA(H) 359' (FULL A B	200') ALS out			В	NOT	
S 3	TLS DA(H) 359' (FULL B	200') ALS out		OC (GS out)	В	NOT AUTH	
ANS OPS 3	FULL A B C 600' - 2000	200') ALS out			В		

