LLHA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LLHA – HAIFA

LLHA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	*ARP coordinates and site at AD*	324830N 0350234E 163°/678 M from THR 16
2	*Direction and distance from city*	090°, 12 km from Haifa city center
3	*Elevation/Reference temperature*	28FT./31.5°C (August)
4	*Geoid undulation at AD ELEV PSN*	20.5 M
5	*MAG VAR/Annual change*	4° E (2014)/0.08° increasing
6	*AD Administration, address, telephone, telefax, telex, AFS*	Israel Airports Authority (IAA) Haifa Airport P.O.Box 10388 Haifa 26110 Tel: 972-4-8476100/1 after 16:00: 972-4-8476106 Telefax: 972-4-8728657 Telex: 45138 HFAAP AFS: LLHAZPZX
7	*Types of traffic permitted (IFR/VFR)*	CVFR only

LLHA AD 2.3 OPERATIONAL HOURS

1	*AD Administration*	SUN-THU: 0800-1600 LT
2	*Customs and immigration*	Prior coordination with AD Administration required
3	*Health and sanitation*	NIL
4	*AIS briefing office*	By Ben-Gurion AIS office (See LLBG AD 2.2)
5	*ATS Reporting Office (ARO)*	NIL
6	*MET briefing office*	Israel Meteorological Service meteorological watch office, Bet Dagan (LLBD).
7	*ATS*	SUN, THU: 0800-2200 LT MON, WED: 0800-2000 LT TUE: summer time 0800-2230, winter time 0800-2000 LT FRI & HOL eve: 0700-1900 SAT & HOL: summer time 0700-2200, winter time 0800-2300 LT
8	*Fuelling*	SUN-THU: 0700-1800 LT FRI & HOL eve: 0700-1400 LT SAT & HOL: PR 24H through AD Administration
9	*Handling*	SUN-THU: 0800-1630 LT FRI & HOL eve: 0800-1300 LT
10	*Security*	As AD administration
11	*De-icing*	NIL
12	*Remarks*	NIL

LLHA AD 2.4 HANDLING SERVICES AND FACILITIES

1	*Cargo-handling facilities*	NIL
2	*Fuel/oil types*	Jet A-1 by prior coordination with AD Administration Tel: 972-4-8476100/1
3	*Fuelling facilities/capacity*	Self service 100LL & JET A-1, for local operators. Others to contact 'Aviation Services' , PR 24H in advance. Oil – NIL
4	*De-icing facilities*	NIL
5	*Hanger space for visiting aircraft*	NIL
6	*Repair facilities for visiting aircraft*	NIL
7	*Remarks*	Pilots shall coordinate ground handling services with AD administration, at least 24 hours before departure time.

LLHA AD 2.5 PASSENGER FACILITIES

1	*Hotels*	In the city of Haifa
2	*Restaurants*	Inside the terminal and in the city
3	*Transportation*	Taxis outside the terminal building
4	*Medical facilities*	First-aid at AD Hospitals in the city of Haifa
5	*Bank and post office*	Nil
6	*Tourist office*	In the city of Haifa
7	*Remarks*	Nil

LLHA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	*AD category for fire fighting*	CAT 5
2	*Rescue equipment*	Nil
3	*Capability for removal of disabled aircraft*	No equipment available
4	*Remarks*	Nil

LLHA AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil

LLHA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	*Apron surface and strength*	Surface: Asphalt Strength: PCN APN A: 5F/C/Y/T
2	*Taxiway width, surface and strength*	Width: - TWY A/M, G: 30 M - TWY N1, N2, J (between stands J1-J7): 15 M - TWY J (between stands J8-J11): 12 M Surface: Asphalt Strength: PCN APN A: 5F/C/Y/T
3	*Altimeter checkpoint location and elevation*	Location: At Apron Elevation: 28 FT.
4	*VOR checkpoints*	Nil
5	*INS checkpoints*	Nil
6	*Remarks*	Apron has five parking ramps as follows (see parking chart): - **A**: In front of the terminal for commercial aircraft. - **A**, **M**, **J**: For general aviation aircrafts and helicopters. **G**: For authorized helicopeters only. - **N**: For domestic aircrafts (as detailed in Domestic AIP). Parking for International flights shall be approved in advance by Airport administration.

LLHA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	*Use of aircraft and ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands.*	Taxiing guidance signs at all intersections with TWY and RWY and at all holding positions. Guide lines at apron. Nose-out guidance at aircraft stands.
2	*RWY and TWY markings and LGT*	RWY: Designation, THR centre line, edge runway end as appropriate, marked and lighted. TWY: Centre line, marked, unlighted.
3	*Stop bars*	Nil
4	*Remarks*	Nil

LLHA AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			*In circling area and at AD*		*Remarks*
1			2		3
RWY NR/Area affected	*Obstacle type Elevation Markings/LGT*	*Coordinates*	*Obstacle type Elevation Markings/LGT*	*Coordinates*	
A	b	c	a	b	
16 / APCH 34 / TKOF	Flaming Chimney 276 ft LGTD	TBD	Silos 147 ft	324844N 0350216E	Populated and factory areas near AD
	Crane 220 ft	324959N 0345927E	Crane 151 ft	324900N 0350100E	
	Crane 220 ft	324949N 0345933E	6 Cranes at Haifa Port 348 ft Marked & Lighted	324916N 0350056E	
	University & Anttena 1870 ft	324545N 0350105E			
	Water tower 130 ft	TBD			
	Chimney (Blue Band) 145 ft	TBD			
	Logistic support equipment compound 17.7 ft	324902N 0350227E			
34 / APCH 16 / TKOF	2 Cooling towers 270 ft Nil	TBD			
	Flaming stacks 338 ft Nil	TBD			Flames that may rise as high as 740 ft
	High-tension cables West of refineries area crossing final APP. path Nil	TBD			

LLHA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	*Associated MET office*	Israel Meteorological Service, Bet Dagan (LLBD)
2	*Hours of service* *MET office outside hours*	Observations commence one hour before AD resuming operation and continue until closure. Briefing available from LLBD 24H each day.
3	*Office responsible for TAF preparation* *Periods of validity*	Israel Meteorological Service 24 HR (Long TAF)
4	*Type of landing forecast* *Interval of issuance*	Nil
5	*Briefing/consultation provided*	Telephone briefing with the Meteorological Watch Office at Israel Meteorological Service, Bet Dagan, can be established in the aerodrome meteorological station.
6	*Flight documentation* *Language(s) used*	By request from the local MET station, a folder may be provided containing: Charts, OPMET information, SIGMET, Aerodrome Warnings and low level forecasts for TEL-AVIV

		FIR available in ICAO abbreviated text or in English
7	*Charts and other information available for briefing or consulting*	Low level and upper wind and temperature chart for standard isobaric surface. Significant weather chart (low level, medium and high level)
8	*Supplementary equipment available for providing information*	Meteorological information terminal available at meteorological station in the AD containing: weather radar, weather satellite image display and animation, Upper Air temperature & wind profiles derived from Israeli radiosonds and AMDAR reports , SIGWX and T+W charts and updated OPMET information
9	*ATS units provided with information*	Haifa Tower.
10	*Additional information (limitation of service, etc.)*	Local MET station Tel: 972-4-8476132

LLHA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE BRG*	*Dimensions of RWY (m)*	*Strength (PCN) and surface of RWY and SWY*	*THR coordinates RWY end coordinates THR geoid undulation*	*THR elevation and highest elevation of TDZ of precision APP RWY*	*Slope of RWY-SWY*
1	2	3	4	5	6	7
16	159.80°	1 318 X 30	39F/C/Y/T Asphalt	THR 324854.36N 0350229.69E; RWY END 324817.81N 0350245.71E; GUND 20.5 M	THR 26 FT	-0.86%/+Negligible (502 M) (785 M)
34	339.80°	1 318 X 30	39F/C/Y/T Asphalt	THR 324821.41N 0350244.14E; RWY END 324857.04N 0350228.58E; GUND 20.5 M	THR 16 FT	Negligible/+0.86% (785 M) (502 M)
SWY dimensions (m)	*CWY dimensions (m)*	*Strip dimensions (m)*	*Dimensions of RESA (m)*	*Location And Description Of Arresting System*	*OFZ*	*Remarks*
8	9	10	11	12	13	14
Nil	90 X 80	1 318 X 80	RESA RWY 16 – 30 X 60	Nil	Nil	RESA + CWY ARE PART OF THE RWY*
Nil	90 X 80	1 318 X 80	RESA RWY 34 – 30 X 60	Nil	Nil	RESA + CWY ARE PART OF THE RWY

* Use of CWY for RWY 16 - coordination with ATC after engine start-up is required prior Take-off

LLHA AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
16	1 228	1 228	1 228	1 138	Nil
16	1 228	1 318	1 228	1 138	By prior coordination*
34	1 198	1 288	1 198	1 083	Nil

* Use of CWY for RWY 16 - coordination with ATC after engine start-up is required prior Take-off

LLHA AD 2.13A DECLARED REMAINING DISTANCES

(FOR USE BY HELICOPTERS ONLY)

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
16 – N2	1187				
16 – N1	1166				
16 – G	1092				
16 – M/Z	838				
16 – Y1	651				
16 – Y2	710				
16 – Y3	772				
16 – U	551				
34 – N2	NOT AUTHORIZED				
34 – N1	NOT AUTHORIZED				
34 – G	225				
34 – M/Z	479				
34 – Y1	667				
34 – Y2	637				
34 – Y3	546				
34 - U	766				

LLHA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY designator	*APCH LGT type LEN INTST*	*THR LGT Colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ,LGT LEN*	*RWY Centre Line LGT Length, spacing, colour, INTST*	*RWY edge LGT LEN, spacing Colour INTST*	*RWY End LGT colour WBAR*	*SWY LGT LEN (M) colour*	*Remarks*
1	2	3	4	5	6	7	8	9	10
16	Nil	Green	PAPI Left/3°	REIL	Nil	1 206 M 60 M White LIH	Red	Nil	Nil
34	Nil	Green	PAPI Left/4^0	REIL	Nil	1 206 M 60 M White LIH	Red	Nil	Nil

LLHA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN/IBN location, characteristics and hours of operation*	ABN (Green/White) located on TWR, operating in IMC and at night.
2	*LDI location and LGT* *ANEMOMETER location and LGT*	100 M SW of ARP lit. TBD
3	*TWY edge and centre line lighting*	Edge only
4	*Secondary power supply/switch-over time*	Secondary power supply to all lighting at AD. Switch-over time: 20 SEC
5	*Remarks*	Nil

LLHA AD 2.16 HELICOPTER LANDING AREA

Helicopters shall use RWY 16/34 for landing & take-off, following TWR instructions.

TWR may instruct helicopters to use short/long circuit (Ref. AD 2.2-15).

Helicopters may touch down at the intersection of their parking stand, if preferred.

LLHA AD 2.17 ATS AIRSPACE

1	*Designation and lateral limits*	324511N 350418E - 325025N 350740E - 325039N 350602E - 325515N 350550E - 325525N 350455E - 325640N 350454E - 325644N 350421E - 324933N 345631E - 324740N 345631E - 324459N 350151E
2	*Vertical limits*	SFC/MSL - 3 000 FT MSL
3	*Airspace classification*	D
4	*ATS unit call sign* *Language(s)*	Haifa Tower English & Hebrew (See GEN. 3.4-2)
5	*Transition altitude*	NIL
6	*Remarks*	NIL

LLHA AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
TWR	HAIFA TOWER	133.000 MHz 127.800 MHz 121.500 MHz	During AD operation hours	Primary frequency Secondary frequency Emergency freq.
ATIS	Haifa Information	135.400 MHz	During AD operation hours	Broadcast includes Local routine/special weather report of citcuit area

LLHA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR CAT of ILS/MLS (For VOR/ILS/ MLS, give declination)	*ID*	*Frequency*	*Hours of operation*	*Location of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
Nil					-	Nil

LLHA AD 2.20 LOCAL TRAFFIC REGULATIONS

Airport regulations

At Haifa Airport a number of local regulations apply. The regulations are collected in a manual which is available at the AD administration office. This manual includes, among other subjects, the following:

a) the meaning of markings and signs;

b) information about aircraft stands;

c) information about taxiing from aircraft stands including taxi clearance;

d) limitations in the operation of large aircraft including limitations in the use of aircraft's own power for taxiing.

e) helicopter operations;

f) engine start-up and use of APU;

g) fuel spillage;

h) precautions during extreme weather conditions;

Taxiing and maneuvering shall be the sole responsibility of the pilot. Adherence to TWR instructions.

Further information about regulations can be obtained from the TWR.

Taxiing to and from stands

Parking arrangements to be coordinated in advance through AD administration.

Departing flight shall contact the TWR before start-up, report their parking position and obtain ATC clearance before commencing taxi.

Departing and arriving aircrafts shall report received ATIS letter on initial contact with TWR.

Start up and taxi clearances shall be requested from TWR.

Pilots lining-up on RWY 34, or turning 180° after landing run on RWY 16, should make a left turn to reduce noise.

A/C shall be ready for immediate departure upon line-up, and must not delay its take-off roll, unless otherwise approved by TWR.

Parking area for small aircraft (General aviation)

Parking at apron A, M, J, see AD 2.2–11.

Marshalling services are not provided. Taxiing and maneuvering shall be the sole responsibility of the pilot. Request ATC instructions if required.

Parking area for helicopters

Parking at apron G, or at general aviation aprons A, M, J, see AD 2.2–11.

Helicopters parking in apron G is allowed only after prior permission from the Haifa aerodrome administration, only for helicopters with maximum helicopter length of 17.12 meters.

Apron - taxiing during winter conditions

Nil

Taxiing - limitations

Insufficient safety distances restrict large aircraft's use of taxiway when using their own power. Pilots shall coordinate in advance the operations of large aircraft with AD administration. Further information/instructions will be given by TWR.

School and training flights technical test flights - use of runways

Nil.

Helicopter traffic - limitation

Non-scheduled helicopter public air traffic is permitted only after prior approval from the Haifa Aerodrome Administration. Any contact concerning the above shall be made via the handling company or directly to the Airport Office during the hours of service.

Any request for approval of traffic shall contain the following information:

a) Owner/operator

b) Type of helicopter, registration/call sign

c) Date, arrival time/departure time, destination(s).

Furthermore, other details relevant to the evaluation of the request shall be given as required.

Helicopters may request Runway intersection departure, or be offered by ATC. See table 2.13A for RWY Intersection's TORA.

Removal of disabled aircraft from runways

When aircraft is wrecked on a runway, it is the duty of the owner or user of such aircraft to have it removed as soon as possible. If a wrecked aircraft is not removed from the runway as quickly as possible by the owner or user, the aircraft will be removed by the aerodrome authority at the owner's or user's expense.

LLHA AD 2.21 NOISE ABATEMENT MONITORING & PROCEDURES

NIL

LLHA AD 2.22 FLIGHT PROCEDURES

General

Flights within Haifa CTR shall be in accordance with Controlled Visual Flight Rules (CVFR) only, and conducted in accordance with CVFR routes chart.

Traffic pattern (see AD 2.2-15)

Fixed-wing A/C, "Long" circuit pattern. Altitude – 1000 ft.
- RWY 34 – Right circuit, Base leg south of LLP04.
- RWY 16 – Left circuit, extend Departure leg, Crosswind south of LLP04.

Helicopters, "Short" circuit pattern, Altitude – 500 ft, day only.
- RWY 34 – Right circuit, short Base leg north of LLP04.
- RWY 16 – Left circuit, short departure leg, crosswind north of LLP04.

International flights – Arrivals

Before submitting arrival FPL, pilots shall receive Haifa AD administration approval, and coordinate any further changes.
Ultralight international flights – before submitting a FPL, shall also coordinate their arrival with the TWR.
Pilots shall report ETA to Haifa TWR, through Tel-Aviv Control (ACC), which will forward the information.
Arriving flights shall be transferred to Haifa TWR before GALIM 3000/5000 ft.

International flights – Departures

Pilots shall coordinate departure flights with AD administration at least 24 hours in advance, and before submitting a FPL.
Departure flights shall be transferred to Tel Aviv Control at GALIM, 3000/5000 ft.

Communication failure

In the event of communication failure, the pilot shall act as follows:

Arriving A/C:
Proceed to GALIM via FPL Airway, unless previously cleared to another airway.

After passing GALIM, proceed inbound Haifa airport while maintaining 3000 ft.
Switch on the A/C landing lights.
Determine the Runway in Use, observing traffic in the circuit and/or the wind direction indicator ("Wind Sac").
Fly over the control TWR. Join down-wind leg while descending to 1000 ft.
Land after receiving Green light from the TWR

Departing A/C:
Return to LLHA via GALIM at 3000 ft.

After passing GALIM proceed, as described for arriving A/C.

LLHA AD 2.23 ADDITIONAL INFORMATION

Bird concentrations in the vicinity of the airport

See AD 2.2–17.

LLHA AD 2.24 CHARTS RELATED TO AN AERODROME