

EIWF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EIWF – WATERFORD

EIWF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP and its site	521114N 0070513W Mid-point RWY 03/21
2	Direction and distance from (city)	4NM SE of Waterford
3	AD Elevation, Reference Temperature & Mean Low Temperature	119 ft /19.6°C (Max Temp) 1.5°C (MNM Temp)
4	Geoid undulation at AD ELEV PSN	184 ft
5	MAG VAR/Annual Change	3° W (2017) / 11' decreasing
6	AD Operator, address, telephone, telefax, email, AFS, Website	Post: Waterford Airport Killowen, Co. Waterford Phone:+ 353 51 84 66 00 Fax: + 353 51 87 17 01 [ATC] Fax: + 353 51 87 56 23 [Operations] Email: atc@waterfordairport.net Email: operations@waterfordairport.net AFS: EIWFZTZX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Nil

EIWF AD 2.3 OPERATIONAL HOURS

1	AD Operator	01 JAN 2023-25 MAR 2023 0745-1300, 1345-1830, 1915-2045 26 MAR 2023-31 MAY 2023 0645-1200, 1245-1730,1815-1945 01 JUN 2023-31 AUG 2023 0745-1200, 1245-1730, 1815-2045 01 SEP 2023-28 OCT 2023 0645-1200, 1245-1730, 1815-1945 29 OCT 2023-31 DEC 2023 0745-1300, 1345-1830, 1915-2045
2	Customs and immigration	24 HR PN required to AD Operator.
3	Health and sanitation	As per AD Operator
4	AIS Briefing Office	See Remarks
5	ATS Reporting Office (ARO)	As per AD Operator
6	MET Briefing Office	See Remarks
7	ATS	As per AD Operator
8	Fuelling	As per AD Operator
9	Handling	As per AD Operator
10	Security	As per AD Operator
11	De-icing	As per AD Operator

12	Remarks	<p>AD Operator AVBL outside published HR, 24 HR PN to AD Operator</p> <p>ATS AVBL outside published HR, 24 HR PN to AD Operator</p> <p>PIB AVBL from AIS, Shannon see GEN 3.1.5</p> <p>MET briefing AVBL from Central Aviation Office, Shannon Airport see GEN 3.5.4</p> <p>Airport PPR to non-based operators.</p> <p>Phone: Operations +353 51 84 66 00</p> <p>Email: operations@waterfordairport.net</p>
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EIWF AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Contact airport operations
2	Fuel/oil types	JET A1; AVGAS
3	Fuelling facilities/capacity	2 JET A1 Trucks - Capacity 18,000L 1 AVGAS Mobile Unit 2,000L Storage capacity - Jet A1 100,000L Storage capacity - AVGAS 50,000L
4	De-icing facilities	Nil
5	Hangar space available for visiting aircraft	Limited – Contact AD Operator
6	Repair facilities for visiting aircraft	Shamrock Aviation Phone:+ 353 51 87 28 09
7	Remarks	Handling services available, contact Waterford Operations. AVGAS available up to 30 mins before evening closing time or later by prior arrangement only.

EIWF AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of AD	Waterford
2	Restaurant(s) at or in the vicinity of AD	Nil.
3	Transportation possibilities	Taxis and Car Hire from the AD (Prior notice required). Train from Waterford.
4	Medical facilities	First Aid at AD. Hospitals in Waterford.
5	Bank and Post Office at or in the vicinity of AD	Waterford
6	Tourist Office	Waterford
7	Remarks	Nil

EIWF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 2. Up to CAT 6 AVBL with 24 HR PN required to Operations
2	Rescue equipment	Rescue and Emergency equipment for up to CAT 6
3	Capability for removal of disabled aircraft	Operators to make own arrangements through IATA pool or other organisations. Recovery assistance available through local contractors, up to 20,000kg Contact the Airport Co-ordinator: +353 (0)51 846600

4	Remarks	Fire cover available during operating hours. 24 HR PN required to AD Duty Supervisor for services outside of operating hours.
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EIWF AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	Type(s) of clearing equipment	1 runway snow plough 1 runway sweeper 1 snow blower 1 runway de icer
2	Clearance priorities	Search and Rescue apron area, RWY 03/21 and associated TWY's
3	Use of Material for movement area surface treatment	(KFOR) Potassium Formate Fluids as required
4	Specially prepared winter runways	Not applicable
5	Remarks	Global Reporting Format - ATS communications for Global Reporting Format for Runway surface conditions. Runway surface conditions not reported by ATIS. Flight crew will be provided with the latest Runway surface conditions from ATS on first contact.

EIWF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATION DATA

1	Apron surface and strength	Surface: CONC / Strength: PCN 19/F/C/Y/T			
2	Taxiway width, surface and strength	TAXIWAY	WIDTH	SURFACE	STRENGTH
		A	15 M	ASPH	PCN 19/F/C/Y/T
		B	15 M	ASPH	PCN 19/F/C/Y/T
3	Altimeter checkpoint location and elevation	Location: Terminal Apron / Elevation: NIL			
4	VOR checkpoint	Nil			
5	INS checkpoint	Nil			
6	Remarks	TWY B restricted to Code A fixed wing and helicopter aircraft only.			

EIWF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Taxiing Guidance System Signboards at intersection of TWY and RWY and at the Holding Point.
2	RWY/TWY markings and LGT	RWY Marked: Designator, THR, TDZ, C/L Lighted: RWY edge, RWY end, PAPI, Displaced Thresholds TWY Marked: Centreline, Holding position. Lighted: Edge.
3	Stop bars	Nil
4	Other RWY Protection measures	-

5	Remarks	Nil
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EIWF AD 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/ Designation	OBST Type	OBST Position	ELEV/HGT	Markings/Type, Colour	Remarks
a	b	c	d	e	f
Air Navigation Obstacle (iaa.ie) - https://www.iaa.ie/commercial-aviation/airspace/air-navigation-obstacles					

In Area 3					
OBST ID/ Designation	OBST Type	OBST Position	ELEV/HGT	Markings/Type, Colour	Remarks
a	b	c	d	e	f
Air Navigation Obstacle (iaa.ie) - https://www.iaa.ie/commercial-aviation/airspace/air-navigation-obstacles					

EIWF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Central Aviation Office, Shannon Airport see GEN 3.5.4
2	Hours of service	Refer to EIWF AD 2.3
3	Office responsible for TAF preparation Periods of validity Interval of issuance.	Met Eireann Central Aviation Office, Shannon. 9 HR 3 HR
4	Trend forecast Interval of issuance	Nil
5	Briefing/consultation provided	Personal
6	Flight documentation Language(s) used	Charts and Tabular English
7	Charts and other information available for briefing or consultation	Hourly Synoptic Chart; 6-hourly synoptic chart; 6-hourly prognostic chart (surface); prognostic chart of significant weather; prognostic chart of wind/temperature at upper levels; prognostic chart of tropopause levels.
8	Supplementary equipment available for providing information	Automated Weather Station at Waterford AD. EIWF METAR available on URL: http://www.waterfordairport.ie/weather Phone:+ 353 51 87 70 00 HR as per ATS.
9	ATS units provided with information	EIWF TWR
10	Additional information (limitation of service, etc.)	METAR available every 30 mins. GEN 3.5.4.2 for additional information

EIWF 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
1	2	3	4	5	6
03	021.01°	1433 x 30	PCN 30/F/C/Y/T ASPH	521054.98N 0070524.89W 521135.57N 0070459.53W 184 ft	26 M /86 ft
21	201.01°	1433 x 30	PCN 30/F/C/Y/T ASPH	521131.24N 0070502.24W 521052.27N 0070526.59W 184 ft	34.4 M /113 ft

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RWY End Safety Area dimensions (M)	Location and description of Arresting System	OFZ	Remarks
7	8	9	10	11	12	13	14
Refer to Aerodrome Obstruction Chart Type A	Nil	Nil	1553 x 150	-	-	Nil	Grooved Surface
	Nil	Nil	1553 x 150	-	-	Nil	Grooved Surface

EIWF AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
03	1433	1433	1433	1343	THR 03 DISPLACED 90 M
21	1433	1433	1433	1290	THR 21 DISPLACED 143 M

EIWF AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ Length	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
03	SALS 420M, 1 crossbar at 300M	G	PAPI, Left Slope 3° MEHT 26.0 ft	Nil	Nil	White 60 M Amber 450 M from runway end	R	Nil	Nil

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ Length	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
21	CAT I 750 M 4 crossbars	G	PAPI, Left Slope 3.25° MEHT 26.0 ft	Nil	Nil	White 60 M Amber 450 M from runway end	R	Nil	PAPI RWY 21 not to be used for approach slope guidance until the aircraft is aligned with the runway, as normal obstacle clearance is not provided to the west of the runway extended centre-line.

EIWF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	At Tower, FLG W/G, 30 per minute As per AD Operator EIWF AD 2.3 .
2	LDI location and LGT Anemometer location and LGT	WDI Near THR 21 lighted Near THR 21 lighted
3	TWY edge and centre line lighting	Blue TWY Edge Only
4	Secondary power supply/switch-over time	Secondary Power Supply to all Lighting at AD/Switch-over 12 seconds.
5	Remarks	Nil

EIWF AD 2.16 HELICOPTER LANDING AREA

NIL

EIWF AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	Waterford Control Zone Circle radius 10NM 521114N 0070513W (Waterford ARP)
2	Vertical limits	5000 ft AMSL
3	Airspace classification	C G (outside hours of operation of ATC)
4	ATS unit call sign Language(s)	Waterford Tower Waterford Information (during the hours of AFIS operation) English
5	Transition altitude	5000 ft
6	Hours of applicability	-

7	Remarks	<p>Outside the promulgated hours of operation of the Waterford Control Zone, the following airspace: Waterford Airport - Circle radius 10NM 521114N 0070513W centered on the Waterford Aerodrome Reference Point, surface to 5000 feet AMSL is classified as Class G airspace. During these periods, an Aerodrome Flight Information Service (AFIS) may be provided and IFR holding, approach and departure procedures for SAR Operations may take place at Waterford Airport. Outside the promulgated Aerodrome hours of operation of Waterford Airport, an AFIS may be provided at short notice, in support of helicopters on SAR/HEMS/Training missions based at Waterford Airport <i>NOTE: Instrument Procedures are only available when an Air Traffic Control Service is being provided, unless an operator is authorised by the Flight Operating Standards Department of the Irish Aviation Authority and Waterford Airport Management.</i> Pilots will be provided by Waterford AFIS, Callsign "Waterford INFORMATION", with an Aerodrome Flight Information and Alerting Service while operating in the local airspace. Pilots are responsible for their own separation while operating in Class G - Uncontrolled Airspace. The hours of operation of AFIS are promulgated by NOTAM. Times may vary to support helicopters on SAR/HEMS missions based at Waterford Airport. Airspace Status This airspace is designated as a Transponder Mandatory Zone (TMZ) and Radio Mandatory Zone (RMZ), during the hours when an Aerodrome Flight Information Service is provided Refer to EIWF AD.2.20.8</p>
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EIWF AD 2.18 ATS COMMUNICATIONS FACILITIES

Service designation	Call sign	Channel	SAT VOICE No.	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	Waterford Tower	129.850 MHz	-	-	Refer to EIWF AD 2.3 AD Operator	Nil
GND	Waterford Ground	121.600 MHz	-	-		As directed by ATC
AFIS	Waterford Information	129.850 MHz	-	-		When ATC not available. Check NOTAM and refer to ATIS.
ATIS	Waterford ATIS	121.150 MHz	-	-		Nil

EIWF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR, Type of supported OP (for VOR/ILS/MLS/GNSS/SBAS and GBAS, give declination)	ID	Frequency Channel	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service Volume Radius from the GBAS Reference Point	Remarks
1	2	3	4	5	6	7	8
DME	IWD	110.9 kHz CH 46X	H24	521119.6N 0070502.0W	110 ft		Designated Operational Coverage 25 DME reads Zero at RWY 21 THR. DME reads 0.3D at RWY 03 THR. Monitored only during hours as per ATS
NDB	WTD	368.0 kHz	H24	521120.4N 0070500.0W			Designated Operational Coverage 25NM Monitored only during hours as per ATS
ILS LLZ RWY 21	IWD	110.9 MHz	H24	521039.1N 0070534.8W			Monitored only during hours as per ATS
ILS GP RWY 21	IWD	330.8 MHz	H24	521123.2N 0070514.1 W			GP Angle 3.2° RDH 45 ft Full scale fly up indication may not be maintained when right of localizer sector and below glidepath. Glidepath flags may occur when right of centreline.

EIWF AD 2.20 LOCAL TRAFFIC REGULATIONS

- Landing, take off and manoeuvring on the aerodrome outside the published HR of operation of the aerodrome is not permitted unless such permission has been obtained in advance from aerodrome operations or is in the event of an emergency or a search and rescue (SAR) operation.
- A booking system exists for instrument training, training periods may be booked by application to ATC

Phone: + 353-51-846600

Fax: + 353-51-871701

Email: atc@waterfordairport.net

The filing of a flight plan does not constitute a booking. Failure to make a booking may result in the aircraft being refused the use of the facilities.

Pilots are requested to advise aerodrome operations of booking cancellations.

- A booking procedure for all circuit training flights may be introduced by ATS during busy periods.
- Aircrew and personnel are required to wear high visibility clothing at all times when airside.
- Individuals or operators intending to base aircraft at the aerodrome must seek the prior written approval of the Airport Manager.
- Solo Student Pilots from non-Waterford based Flight Training Organisations (FTO) must contact ATS at +353 51 846613 prior to departing to Waterford for PPR and a briefing.
- RWY 03/21, fixed wing aircraft are required to use the runway end turning areas for making 180 deg turns. Light

aircraft are exempt from this requirement.

8. Equipment Requirements

1. TMZ
All flights operating in the Waterford TMZ shall carry and operate SSR transponders capable of operating on Modes A and C or on Mode S, unless in compliance with alternative provisions prescribed by Waterford ATS that has been designated for the airspace as outlined above. Refer to [Item 5](#) hereunder.
2. RMZ
All flights operating in the Waterford RMZ shall maintain continuous air-ground voice communication watch and establish two-way communication, as necessary, on the appropriate communication channel, unless in compliance with alternative provisions prescribed for that particular airspace by Waterford ATS. Refer to [Item 4](#) hereunder.
3. RMZ Entry
The requirements for entry into an RMZ are detailed in SERA.6005 (a) as follows:
Before entering a radio mandatory zone, an initial call containing:
 - a. the designation of the station being called;
 - b. callsign;
 - c. type of aircraft;
 - d. position;
 - e. level;
 - f. the intentions of the flight;
And;
 - g. Other information as prescribed by the competent authority shall be made by pilots on the appropriate communication channel. [Ref EIWF AD 2.18]

Once this information has been passed to and acknowledged by AFIS, a pilot may enter the RMZ. However, if a pilot is requested to 'stand by' before the required information is passed; they must remain outside of the RMZ. AFIS will resume communications with pilots as soon as possible after having instructed them to 'stand by'.

Whilst operating within an RMZ pilots are required to continuously monitor the published frequency. This is to raise situational awareness for all and offers a means of communication between pilot and AFIS if required.

Waterford AFIS may additionally instruct an aircraft with a functioning transponder to squawk an appropriate code.

4. Radio and/or Transponder Failure
 - 4.1 A VFR flight experiencing radio failure prior to entry into the RMZ is required to remain outside the RMZ and route to their alternate aerodrome. The pilot shall contact Waterford Air Traffic Services +353 51 846613 as soon as practicable on landing.
 - 4.2 A VFR flight experiencing radio failure whilst inside the RMZ is required to route to,
 - 4.2.1 If approaching from the East route via Baginbun Head not above 1,500 ft to the Belle Lake Hold and await light signals from Waterford AFIS,
 - 4.2.2 If approaching from the West, route via Bunmahon not above 1,500 ft to the Tramore Racecourse Hold and await light signals from Waterford AFIS.
 - 4.3 SAR aircraft on an IFR flight experiencing radio failure are required to follow Rule 31 Communications Failure, AIP Ireland ENR 1.3 INSTRUMENT FLIGHT RULES.
 - 4.4 An aircraft experiencing transponder failure shall advise Waterford AFIS as soon as practicable when aware of the failure. Prevailing traffic conditions may delay TMZ entry/departure.
 - 4.5 Aircraft experiencing both Radio and Transponder failure are required to follow Parts 4.1, 4.2, 4.3 as

appropriate to their flight rules.

5. Non-Radio Aircraft & Non-Transponder Aircraft
Pilots of aircraft which are neither non-transponder nor non-radio equipped must contact Waterford Air Traffic Services +353 51 846613 in order to seek agreement to operate within the TMZ.
Prevailing traffic conditions may preclude TMZ entry agreement to non-transponder aircraft (or an aircraft with a non-functioning transponder) to operate within the TMZ.
Ref:
SERA.6005 Requirements for communications and SSR transponder.
SERA.13001 Operation of a transponder.
SERA 13020 SSR transponder failure when the carriage of a transponder is mandatory

EIWF AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

EIWF AD 2.22 FLIGHT PROCEDURES

1. Arrival Procedures

Clearance to enter the CTR. Arrival routes may be varied at the discretion of ATC.

Arrival Routes are based on holding patterns established at Waterford.

Shannon ATS will descend arriving traffic to the lowest usable flight level within controlled airspace (FL080 / Shannon Transition level if higher).

A lower level/altitude within controlled airspace may be coordinated with Waterford ATC.

Descent into the FIR (Class G Uncontrolled airspace)

Caution: Descent below FL080 or Transition level if higher, before the lateral limits of the Control Zone or associated stubs as outlined in [ENR 2.1](#) will bring the flight into Shannon Class G (uncontrolled) airspace. There may be traffic operating in this airspace that is unknown and not operating with a transponder. Such descent, if requested, may be given at pilot's discretion with a clearance to re-enter controlled airspace at or descending to a specified level/altitude agreed with ATC. Flight information in the FIR is available from Shannon ATS on 127.500 MHz

2. Communication Failure

In the event of communication failure, the pilot shall act in accordance with the communication failure procedures in ICAO Annex 2.

3. Departure Procedures

AD not available for departures when official met visibility is below 550m, SAR aircraft exempt.

4. EIWF Instrument Approach Procedures

ILS CAT 1, LOC RWY 21 and NDB RWY 03 Instrument Approach only available when Air Traffic Control Zone is active unless the operator has prior approval from the Irish Aviation Authority and Waterford Airport Management.

EIWF AD 2.23 ADDITIONAL INFORMATION

Caution Wind Shear may be experienced under certain conditions on the approaches to RWY 21.

EIWF AD 2.24 CHARTS RELATED TO AERODROME

Name	Page
Aerodrome Chart – ICAO	EIWF AD 2.24-1
Aerodrome Obstacle Chart RWY 03/21– ICAO TYPE A	EIWF AD 2.24-2

Name	Page
Instrument Approach Chart ILS CAT I or LOC RWY 21	EIWF AD 2.24-3
Instrument Approach Chart NDB/DME RWY 21 – ICAO	EIWF AD 2-24-5
Instrument Approach Chart NDB/DME RWY 03 – ICAO	EIWF AD 2-24-6
Visual Approach Chart – ICAO	EIWF AD 2.24-7

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