

Table A 1-1 Aerodrome/Heliport data

Subject	Property	Sub-Property	Type	Description	Note	Accuracy	Integrity	Orig Type	Pub. Res.	Chart Res.
Runway				A defined rectangular area on a land aerodrome prepared for the landing and take-off of aircraft. (Annex 14)						
	Designator		Text	The full textual designator of the runway, used to uniquely identify it at an aerodrome/heliport. E.g. 09/27, 02R/20L, RWY 1.						
	Nominal length		Distance	The declared longitudinal extent of the runway for operational (performance) calculations.		1 m	critical	surveyed	1 m or 1 ft	1 m
	Nominal width		Distance	The declared transversal extent of the runway for operational (performance) calculations.		1 m	essential	surveyed	1 m or 1 ft	1 m
	Geometry		Polygon	Geometries of RunwayElement, RunwayDisplacedArea and RunwayIntersection						
	Centre line points									
		Position	Point	The geographical location of runway centre line at each end of the runway, at the stopway and at the origin of each take-off flight path area, and at each significant change in slope of runway and stopway	Definition from Annex 4 3.8.4.2	1 m	critical	surveyed		
		Elevation	Elevation	The elevation of the corresponding centre line point.		0.25 m	critical	surveyed		
		Geoid undulation	Height	The geoid undulation at the corresponding centre line point						
	RWY exit line									
		Exit guidance line	Line	The geographical location of the runway exit line		0.5 m	essential	surveyed	1/100 sec	1 sec
		Colour	Text	Colour of runway exit line						
		Style	Text	Style of runway exit line						
		Directionality	Code List	Directionality of RWY exit line (one-way or two-way)						
	Surface type		Text	The surface type of the runway defined as specified in Annex 14 Volume I						
	Strength									
		PCN	Text	Pavement classification number						
		Pavement type	Text	Pavement type for aircraft classification number — pavement classification number (ACN-						
		Subgrade category	Text	Subgrade strength category						
		Allowable pressure	Text	Maximum allowable tire pressure category or maximum allowable tire pressure value						
		Evaluation method	Text	The evaluation method used						
Strip				A defined area including the runway and the stop-way if provided a) to reduce the risk of damage to aircraft running off a runway; and b) to protect aircraft flying over it during take-off or landing operations						
		Length	Distance	The longitudinal extent of the runway strip.						
		Width	Distance	The transversal extent of the runway strip						
		Surface type	Text	The surface type of the runway strip						
Shoulder				An area adjacent to the edge of a pavement so prepared as to provide a transition between the pavement and the adjacent surface.						
		Geometry	Polygon	The geographical location of the shoulders						
		Surface type	Text	The surface type of the shoulder						
		Width	Distance	The width of the runway shoulder		1m	essential	surveyed	1 m or 1 ft	
Blastpad				The area provided to reduce the erosive effects of jet blast and propeller wash.						

	Geometry	Polygon	The geographical location of the blastpad						
Obstacle free zone		Text	Existence of an obstacle-free zone for a precision approach runway category I	when provided					
RWYmarking									
	Type	Text	Type of runway marking						
	Description	Text	Description of the runway markings						
	Geometry	Polygon	The geographical location of the runway marking						
RWY center line LGT									
	Length	Distance	The longitudinal extent of the runway centre line lights						
	Spacing	Distance	Spacing of runway centre line lights						
	Colour	Text	Colour of runway centre line lights						
	Intensity	Text	Intensity of runway centre line lights						
	Position	Point	Geographical location of each individual light of the runway center line lights						
RWY Edge LGT									
	Length	Distance	The longitudinal extent of the runway edge lights						
	Spacing	Distance	Spacing of the runway edge lights						
	Colour	Text	Colour of runway edge lights						
	Intensity	Text	Intensity of runway edge lights						
	Position	Point	Geographical location of each individual light of the runway edge lights						
Reference Code			The intent of the reference code is to provide a simple method for interrelating the numerous specifications concerning the characteristics of aerodromes so as to provide a series of aerodrome facilities that are suitable for the aeroplanes that are intended to operate at the aerodrome						
	Number	Code list	A number based on the aeroplane reference field length						
	Letter	Code list	A letter based on the aeroplane wingspan and outer main gear wheel span						
Restriction		Text	Description of restrictions imposed on runway						
Runway Direction									
Designator		Text	The full textual designator of the landing and take-off direction. Examples: 27, 35L, 01R.						
True bearing		Bearing	The true bearing of the runway.		1/100 deg	Routine	surveyed	1/100 degree	1 degree
Type		Text	Type of runway: precision (CAT I, II, III) / non-precision / non-instrument						
Threshold			The beginning of that portion of the runway usable for landing.						
	Position	Point	Geographical location for runway threshold		1 m	critical	surveyed	1/100 sec	1 sec
	Elevation	Elevation	Elevation of the runway threshold		See Note 1)				
	Geoid undulation	Height	WGS-84 Geoid undulation at runway threshold position		See Note 2)				
	Type	Text	The indication if the threshold is displaced/ not displaced. A displaced threshold is not located at the extremity of a runway.						
	Displacement	Distance	Distance of displaced threshold	If displaced threshold	1 m	routine	surveyed	1m or 1ft	
Runway end			Runway end (flight path alignment point)						
	Position	Point	Location of the runway end in the direction of departure		1 m	critical	surveyed	1/100 sec	1 sec

	Elevation	Elevation	Elevation of the end position of the runway		See Note 3				
Departure end of runway			Departure end of the runway (DER), which is the end of the area declared suitable for take-off (i.e. the end of the runway or, where a clearway is provided, the end of the clearway).	Beginning of departure procedure					
	Position	Point	Geographical location of DER						
	Elevation	Elevation	The elevation of DER is the elevation of the end of the runway or the elevation of the end of the clearway, whichever is higher.						
Touchdown zone			The portion of a runway, beyond the threshold, where it is intended landing aeroplanes first contact the runway.						
	Elevation	Elevation	Highest elevation of the touchdown zone of a precision approach runway	precision approach	0.25 m or 1 ft				
	Slope	Value	The slope of the runway touchdown zone						
Slope		Value	Slope of the runway						
LAHSO			Land and Hold Short Operations						
	Geometry	Line	Geographical location of Land and Hold Short Operations (LAHSO)						
	Protected element	Text	Name of runway or taxiway being protected						
Displaced area			That portion of a runway between the beginning of the runway and the displaced threshold.						
	Geometry	Polygon	Geographical location of the displaced area						
	PCN	Text	Pavement classification number of the displaced area						
	Surface type	Text	The surface type of the displaced area						
	Aircraft restriction	Text	Usage restriction for specific aircraft type						
Stopway			A defined rectangular area on the ground at the end of take-off run available prepared as a suitable area in which an aircraft can be stopped in the case of an abandoned take-off.						
	Length	Distance	The longitudinal extent of stopway	if any	1 m	critical	surveyed	1 m or 1 ft	1 m
	Width	Distance	Width of the stopway		1 m	critical	surveyed	1 m or 1 ft	1 m
	Geometry	Polygon	Geographical location of the stopway						
	Slope	Value	Slope of stopway						
	Surface type	Text	The surface type of the stopway						
Clearway			A defined rectangular area on the ground or water under the control of the appropriate authority, selected or prepared as a suitable area over which an aeroplane may make a portion of its initial climb to a specified height.						
	Length	Distance	The longitudinal extent of the clearway		1 m	essential	surveyed	1 m or 1 ft	
	Width	Distance	The transversal extent of the clearway		1 m	essential	surveyed	1 m or 1 ft	
	Ground profile		The vertical profile (or slope) of the clearway	if any					
RESA			An area symmetrical about the extended runway centre line and adjacent to the end of the strip primarily intended to reduce the risk of damage to an aeroplane undershooting or overrunning the runway.						
	Length	Distance	The longitudinal extent of Runway End Safety Area						
	Width	Distance	The transversal extent of the Runway End Safety Area						
	Longitudinal slope	Value	Longitudinal slope of Runway End Safety Area						
	Transverse slope	Value	Tranverse slope Runway End Safety Area						

Declared distances									
	TORA	Distance	Take-off run available - The length of runway declared available and suitable for the ground run of an aeroplane taking off.		1 m	critical	surveyed	1 m or 1 ft	1 m
	TODA	Distance	Take-off distance available - The length of the take-off run available plus the length of the clearway, if provided.		1 m	critical	surveyed	1 m or 1 ft	1 m
	ASDA	Distance	Accelerate-stop distance available - The length of the take-off run available plus the length of the stopway, if provided.		1 m	critical	surveyed	1 m or 1 ft	1 m
	LDA	Distance	Landing distance available - The length of runway which is declared available and suitable for the ground run of an aeroplane landing.		1 m	critical	surveyed	1 m or 1 ft	1 m
	Remarks	Text	Remarks including runway entry or start point where alternative reduced declared distances have been declared.						
RWY End LGT									
	Colour	Text	Colour of runway end lights						
	Position	Point	Geographical location of each individual light of the runway end lights						
SWY LGT									
	Length	Distance	The longitudinal extent of stopway lights						
	Colour	Text	Colour of stopway lights						
	Position	Point	Geographical location of each individual light of the stopway lights						
Approach lighting system									
	Type	Text	Classification of the approach lighting system using as criteria the ICAO Annex 14 standards						
	Length	Distance	The longitudinal extent of approach lighting system						
	Intensity	Text	A code indicating the relative intensity of the lighting system						
	Position	Point	Geographical location of each individual light of the approach lighting system						
RWY threshold lights									
	Colour	Text	Colour of runway threshold lights						
	Wing bar color	Text	Colour of runway threshold wing bars						
	Position	Point	Geographical location of each individual light of the threshold and wing bar lights						
Touchdown zone lights									
	Lenght	Distance	The longitudinal extent of the runway touchdown zone lights						
	Position	Point	Geographical location of each individual light of the touchdown zone lights						
Visual approach slope indicator									
	MEHT	Height	Minimum Eye Height over the Threshold						
	Position	Point	Geographical location of Visual approach slope indicator system						
	Angle	Angle	Nominal approach slope angle(s)						
	Type	Text	Type of VGSI (VASI, PAPI etc.)						
	Displacement angle	Angle	Where the axis of the system is not parallel to the runway centre line, the angle of displacement						
	Displacement direction	Text	Where the axis of the system is not parallel to the runway centre line, the direction of displacement, i.e. left or right						
Arresting gear		Line	Geographical location of the arresting gear cable across the runway						

	Arresting system			High energy absorbing material located at the end of a runway or stopway designed to crush under the weight of an aircraft as the material exerts deceleration forces on the aircraft landing gear.						
		Geometry	Polygon	The geographical location of the arresting system						
		Setback	Distance	Setback of the arresting system						
		Length	Distance	The longitudinal extent of arresting system						
		Width	Distance	The transverse extent of arresting system						
Radio altimeter area										
	Length		Distance	The longitudinal extent of radio altimeter area						
	Width		Distance	The transverse extent of radio altimeter area						
	Geometry		Polygon	Geographical location of radio altimeter area						

Note 1)	Threshold elevation for runways with non-precision approaches	0.5 m	essential	surveyed	1 m or 1 ft	1 m or 1 ft
	Threshold elevation for runways with precision approaches	0.25 m	critical	surveyed	0.1 m or 0.1 ft	0.5 m or 1 ft
Note 2)	WGS-84 geoid undulation at runway threshold, non-precision approaches	0.5 m	essential	surveyed	1 m or 1 ft	1 m or 1 ft
	WGS-84 geoid undulation at runway threshold, precision approaches	0.25 m	critical	surveyed	0.1 m or 0.1 ft	0.5 m or 1 ft
Note 3)	Elevation of the runway end and any significant high and low intermediate points along the runway for non-precision approaches	0.5 m or 1 ft				
	Elevation of the runway end and the highest elevation of the touchdown zone for precision	0.25 m or 1 ft				