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## Chapter 6—Narrow runway width calculations

### 6.01 Scope of Chapter 6

This Chapter:

- (a) is made for paragraph 121.220(1)(b) of CASR; and
- (b) prescribes the manner of working out the minimum width of a runway for an aeroplane.

### 6.02 Minimum runway width

#### *Definitions*

- (1) In this section:

**outer main gear wheel span**, for an aeroplane, means the distance (measured in metres) between the outside edges of the aeroplane's main gear wheels.

**reference field length**, for an aeroplane, means the shortest take-off distance required for a take-off by the aeroplane at its maximum take-off weight:

- (a) on a runway that is level and dry; and
- (b) in still air; and
- (c) in ISA conditions at sea level.

Note: See the CASR Dictionary for definitions of **dry** (in relation to a runway), **maximum take-off weight**, and section 1.04 in this instrument for the definition of **take-off distance required**.

- (2) The minimum width of a runway for an aeroplane is the width, of a homogenous runway surface, shown in the cell of table 6.02(2) that is the intersection of:

- (a) the aeroplane's code letter, worked out under subsection (3); and
- (b) the aeroplane's code number, worked out under subsection (4).

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**Table 6.02(2)—Minimum runway width**

Code letter	A	B	C	D	E	F
Code number						
1	18 m	18 m	23 m	-	-	-
2	23 m	23 m	30 m	-	-	-
3	30 m	30 m	30 m	45 m	-	-
4	-	-	45 m	45 m	45 m	60 m

#### *Working out the code letter*

- (3) The **code letter**, for an aeroplane, is:

- (a) if the aeroplane has a wingspan and an outer main gear wheel span mentioned in the same item in table 6.02(3) (other than an aeroplane mentioned in paragraph (c))—the letter mentioned in column 3 of the item; or

- (b) if the aeroplane has a wingspan and an outer main gear wheel span mentioned in different items in table 6.02(3) (other than an aeroplane mentioned in paragraph (c))—the letter mentioned in column 3 of the item in the table with the higher number; or
- (c) if the aeroplane has a wingspan mentioned in item 1, 2, 3 or 4 of table 6.02(3) and an outer main gear wheel span that is at least 9 m but less than 14 m—D.

**Table 6.02(3)—Code letters**

Item	Column 1 Wingspan of aeroplane	Column 2 Outer main gear wheel span of aeroplane	Column 3 Code letter
1	less than 15 m	less than 4.5 m	A
2	at least 15 m but less than 24 m	at least 4.5 m but less than 6 m	B
3	at least 24 m but less than 36 m	at least 6 m but less than 9 m	C
4	at least 36 m but less than 52 m	at least 9 m but less than 14 m	D
5	at least 52 m but less than 65 m	at least 9 m but less than 14 m	E
6	at least 65 m but less than 80 m	at least 14 m but less than 16 m	F

*Working out the code number*

- (4) The **code number**, for an aeroplane with the reference field length mentioned in column 1 of an item in table 6.02(4), is the number mentioned in column 2 of the item.

**Table 6.02(4)—Code numbers**

Item	Column 1 Reference field length	Column 2 Code number
1	less than 800 m	1
2	at least 800 m but less than 1 200 m	2
3	at least 1 200 m but less than 1 800 m	3
4	at least 1 800 m	4