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**Software version**

-O- Wingframe v1.2.1



✔ 41 / 41 tests passed

Rules and values referenced in this document can be found in the following publication:

## European Aviation Safety Agency

Certification Specifications and Guidance Material for Aerodromes Design  
CS-ADR-DSN  
Issue 4, 8 December 2017

### Airfield Guidance sign

- ✔ Has a valid face height.  
Chapter N.775, Page 149: point 16.
- ✔ Face width is equal to or larger than face height.  
Chapter N.775, Page 147: point c.2.

#### Legend height

Chapter N.775, Page 148: point c.8.

- ✔ "400mm" is valid legend height.
- ✔ Only a single legend height found.

#### Composition

Chapter N.780, N.785 - Page 161-167  
Combinations inferred from examples in CHAPTER N, page 162, 163, 167.

- ✔ Message type "mandatory" is valid.
- ✔ Message type "location" is valid.
- ✔ Contains at least one (1) message.
- ✔ Contains at most one (1) "location" message.
- ✔ Does not contain messages of type "information" and "mandatory" in combination.

### "mandatory" message

- ✔ No symbols in this message have outlines.

#### Color scheme

Chapter N.775  
• Page 165, c.1 & c.2  
• Page 161, c.1

- ✔ Background color is red.
- ✔ There is a single legend color.
- ✔ Legend color is white.

## Layout

Chapter N.775, Page 149, point 17.

- ✔ Background covers face/visible height.
- ✔ Symbols are vertically centered in message.
- ✔ Message padding top is at least 200mm.
- ✔ Message padding right is at least 200mm.
- ✔ Message padding bottom is at least 200mm.
- ✔ Message padding left is at least 200mm.

## Symbol(s) “22” (Legend height 400mm)

### Dimensions

Chapter N.775  
• Page 159, Table d. Width of letter.  
• Page 160, Table e. Width of numeral.

- ✔ Symbol "2" width equals 274mm.
- ✔ Symbol "2" width equals 274mm.

### Symbol / character spacing

Chapter N.775  
• Page 159, Table a. Letter to letter code number.  
• Page 160, Table b. Numeral to numeral code number.  
• Page 160, Table c. Space between characters.  
• Page 160, Instructions point 1-5.

- ✔ Character spacing between "2" and "2" is 76mm.

## Symbol(s) “CAT” (Legend height 400mm)

### Dimensions

Chapter N.775  
• Page 159, Table d. Width of letter.  
• Page 160, Table e. Width of numeral.

- ✔ Symbol "C" width equals 274mm.
- ✔ Symbol "A" width equals 340mm.
- ✔ Symbol "T" width equals 248mm.

### Symbol / character spacing

Chapter N.775  
• Page 159, Table a. Letter to letter code number.  
• Page 160, Table b. Numeral to numeral code number.  
• Page 160, Table c. Space between characters.  
• Page 160, Instructions point 1-5.

- ✔ Character spacing between "C" and "A" is 50mm.
- ✔ Character spacing between "A" and "T" is 26mm.

## Symbol(s) “I” (Legend height 400mm)

### Dimensions

Chapter N.775  
• Page 159, Table d. Width of letter.  
• Page 160, Table e. Width of numeral.

- ✔ Symbol "I" width equals 240mm.

## Border

- ✔ Message contains zero (0) borders.

## “location” message

- ✔ No symbols in this message have outlines.

### Color scheme

Chapter N.775

- Page 165, c.1 & c.2
- Page 161, c.1

- ✔ Background color is black.
- ✔ There is a single legend color.
- ✔ Legend color is yellow.

### Layout

Chapter N.775, Page 149, point 17.

- ✔ Background covers face/visible height.
- ✔ Symbols are vertically centered in message.
- ✔ Message padding top is at least 200mm.
- ✔ Message padding right is at least 200mm.
- ✔ Message padding bottom is at least 200mm.
- ✔ Message padding left is at least 200mm.

## Symbol(s) “G” (Legend height 400mm)

### Dimensions

Chapter N.775

- Page 159, Table d. Width of letter.
- Page 160, Table e. Width of numeral.

- ✔ Symbol “G” width equals 274mm.

### Border

Chapter N.775, Page 150, point 18.ii.

- ✔ Message contains zero (0) borders.

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## Notes and known issues, EASA

- **Width of lower case "m".**

In Figure N-6, page 167, the inscription of "intersection take-off" signs include a lower case "m", but there is no reference in the publication to the width of this character.

- **Expansion of Runway vacated.**

The publication lacks instructions on how to expand a Runway vacated message, i.e. if you need to place a 1470mm wide Runway vacated symbol in a 1800mm sign. Should the symbol pattern be repeated, stretched, or background be extended with yellow or black? It's not clear.

- **Stroke width of CAT symbols.**

The publication does not clearly state whether or not to use the general stroke widths 32/48/64mm for CAT symbols ( I, II, III, / ). Comparing the grid drawings with those of letters, they appear to be thinner. However, so does the arrow grid drawing, and page 148, point 9.i clearly states arrows should use stroke 32/48/64mm.

- **Rules dependent on surroundings.**


Currently, signs in Wingframe are not "aware" of other signs, so any rules that depend on the presence of other signs can not be tested at the moment, e.g. page 149, point 17.



If you have any questions regarding this document, or want to report an issue, please contact:

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