

Annex 14, Ed.9	Description	Non-instrument	Non-precision	CAT I (RVR >550m)	CAT II (RVR 550 to 300 m)	CAT III (RVR < 300 m)
<b>5</b>	<b>Visual aids for navigation</b>					
<b>5.1</b>	<b>Indicators and signaling devices</b>					
5.1.1	Wind direction indicator	Requirement	Requirement	Requirement	Requirement	Requirement
5.1.2	Landing "T"	Optional	Optional	Optional	Optional	Optional
5.1.3	Signalling lamp	Required at a controlled aerodrome	Required at a controlled aerodrome	Required at a controlled aerodrome	Required at a controlled aerodrome	Required at a controlled aerodrome
<b>5.3</b>	<b>Lights (General)</b>					
5.3.1.4	Elevated approach lights frangibility	Requirement	Requirement	Requirement	Requirement	Requirement
5.3.1.6	Elevated lights frangibility	Requirement	Requirement	Requirement	Requirement	Requirement
5.3.1.7	Inset lights mechanical resistance	Requirement	Requirement	Requirement	Requirement	Requirement
5.3.1.9	Homogeneity of lighting system	Requirement	Requirement	Requirement	Requirement	Requirement
5.3.1.10	Lighting system intensity control	Requirement	Requirement	Requirement	Requirement	Requirement
5.3.1.11	Light beam characteristics RW	Requirement	Requirement	Requirement	Requirement	Requirement
5.3.1.12	Light beam characteristics TW	Requirement	Requirement	Requirement	Requirement	Requirement
5.3.2	Emergency lighting	Conditional Recommendation	Conditional Recommendation	N/A	N/A	N/A
<b>5.3.3</b>	<b>Aeronautical beacon</b>					
5.3.3.3	Aerodrome rotating beacon	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement
5.3.3.8	Identification beacon	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement
<b>5.3.4</b>	<b>Approach lighting</b>					
5.3.4.1	Simple approach	Recommendation	Requirement	N/A	N/A	N/A
5.3.4.1	Precision approach CAT I	N/A	N/A	Requirement	N/A	N/A
5.3.4.17	Sequence flashing	N/A	N/A	Recommendation (only with barrettes)	N/A	N/A
5.3.4.1	Precision approach CAT II & III	N/A	N/A	N/A	Requirement	Requirement
5.3.4.34	Sequence flashing (beyond 300m)	N/A	N/A	N/A	Recommendation (only with barrettes)	Recommendation (only with barrettes)
<b>5.3.5</b>	<b>Visual approach slope indicator</b>					
5.3.5.1	PAPI	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement
5.3.5.24	PAPI & APAPI	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement
5.3.5.24	Bi-lateral PAPI & APAPI	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
<b>5.3.6</b>	<b>Circling guidance lights</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
<b>5.3.7</b>	<b>Runway lead-in lighting system</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
<b>5.3.8</b>	<b>Runway threshold identification lights</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
<b>5.3.9</b>	<b>Runway edge lights</b>	Required if used at night	Required if used at night	Requirement	Requirement	Requirement
<b>5.3.10</b>	<b>Runway threshold and wing bar lights</b>					
5.3.10.1	Runway Threshold lights	Conditional Requirement	Conditional Requirement	Requirement	Requirement	Requirement
5.3.10.6	Runway Threshold Wing bars lights	Conditional Requirement	Conditional Requirement	Recommended for additional conspicuity	Recommended for additional conspicuity	Recommended for additional conspicuity
<b>5.3.11</b>	<b>Runway End Light</b>	Required if runway edge lighting provided	Required if runway edge lighting provided	Requirement	Requirement	Requirement
<b>5.3.12</b>	<b>Runway centre line lights</b>	N/A	N/A	Conditional Recommendation	Requirement	Requirement
<b>5.3.13</b>	<b>Runway touchdown zone lights</b>	N/A	N/A	N/A	Requirement	Requirement
<b>5.3.14</b>	<b>Simple touchdown zone lights</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	N/A	N/A
<b>5.3.15</b>	<b>Rapid exit taxiway indicator lights</b>	N/A	N/A	N/A	Conditional Recommendation	Conditional Recommendation
<b>5.3.16</b>	<b>Stopway lights</b>	Required if used at night	Required if used at night	Required if used at night	Required if used at night	Required if used at night
<b>5.3.17</b>	<b>Taxiway centre line lights</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Requirement	Conditional Requirement
5.3.17.13	Recommended spacing on straight sections	≤30 m	≤30 m	≤30 m	≤15 m	≤15 m
5.3.17.14	Recommended spacing on curved sections	30, 15 & 7.5 m	30, 15 & 7.5 m	30, 15 & 7.5 m	15 & 7.5 m	15 & 7.5 m
5.3.17.15	Spacing extended 60 m before/after curves	N/A	N/A	N/A	Recommendation	Recommendation
5.3.17.17	Recommended spacing on rapid exit taxiways	30 m if no RW CL	30 m if no RW CL	30 m if no RW CL	15 m	15 m
5.3.17.19	Recommended spacing on other exit taxiways	7.5 m	7.5 m	7.5 m	7.5 m	7.5 m
5.3.17.20	Recommended spacing on Runway used as taxiway	N/A	N/A	N/A	15 m	15 m
<b>5.3.18</b>	<b>Taxiway edge lights</b>					
5.3.18.1	Runway turn pad, holding bay, de-icing facility, apron	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement
5.3.18.1	Taxiway without centre line lights	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement
5.3.18.2	Runway used as taxiway without taxiway centre line lights	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement
<b>5.3.19</b>	<b>Runway turn pad centre line light</b>	Recommended if used at night	Recommended if used at night	Recommended if used at night	Requirement	Requirement
<b>5.3.20</b>	<b>Stop bars</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Requirement	Conditional Requirement
5.3.20.4	Stop bar at intermediate holding position	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
5.3.20.6	Elevated stop bar lights	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
<b>5.3.21</b>	<b>Intermediate holding position lights</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Requirement if no stop bar	Requirement if no stop bar
<b>5.3.22</b>	<b>De-icing/anti-icing facility exit lights</b>	Recommendation	Recommendation	Recommendation	Recommendation	Recommendation
<b>5.3.23</b>	<b>Runway guard lights</b>	Conditional Recommendation	Conditional Recommendation	Required if heavy traffic density	Required if no stop bar	Required if no stop bar
<b>5.3.24</b>	<b>Apron floodlighting</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
<b>5.3.25</b>	<b>Visual docking guidance system</b>	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement
<b>5.3.26</b>	<b>Advanced visual docking guidance system</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
<b>5.3.27</b>	<b>Aircraft stand manoeuvring guidance lights</b>	N/A	N/A	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
<b>5.3.28</b>	<b>Road-holding position light</b>	N/A	N/A	Recommendation	Requirement	Requirement
<b>5.3.29</b>	<b>No-entry bar</b>	Recommendation	Recommendation	Recommendation	Recommendation	Recommendation
5.3.29.5	Elevated No-entry bar lights	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation
<b>5.3.30</b>	<b>Runway status lights</b>	Optional	Optional	Optional	Optional	Optional
<b>5.4</b>	<b>Signs</b>	Requirement	Requirement	Requirement	Requirement	Requirement
5.4.1.7/8	Illuminated signs	Required if Code 3 or 4 and used at night	Required if used at night	Requirement	Requirement	Requirement
<b>5.5</b>	<b>Markers</b>	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation	Conditional Recommendation

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6	Visual aids for denoting obstacles	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement	Conditional Requirement
7	Visual aids for denoting restricted use areas	Requirement	Requirement	Requirement	Requirement	Requirement
8	Electrical Systems					
8.1.6	Secondary power supply	Recommendation	Recommendation	Requirement	Requirement	Requirement
Table 5-2	Maximum switch-over time for some lighting aids	As short as practicable	15 seconds	15 seconds	1 second and 15 seconds	1 second and 15 seconds
8.2.1	Lighting systems interleaving	N/A	N/A	N/A	Requirement	Requirement
9.8	Surface Movement guidance & control systems					
9.8.1	SMGCS	Requirement	Requirement	Requirement	Requirement	Requirement
9.8.6	SMGCS with switching of Stop bars	N/A	N/A	N/A	Requirement	Requirement
9.8.7	SMGCS with RADAR	N/A	N/A	N/A	N/A	Recommendation

Notes:

1. The application of a system referred to as "optional" is at the aerodrome operators discretion.
2. "Conditional recommendation" refers to systems whose application is recommended by ICAO under certain conditions. See relevant ICAO Annex 14 clause for further details.
3. "Conditional requirement" refers to systems whose application is required by ICAO under certain conditions. See relevant ICAO Annex 14 clause for further details.