

Draft **AMENDMENT NUMBER 1**

To

IS 302-2-80:2017 Household and Similar Electrical Appliances — Safety

Part 2-80: Particular Requirements for Fans

(First Revision)

(Page 6, Clause 20.102.2) — Substitute the following for the existing entries:

‘The mounting feet of the blade brackets shall be fixed by a support, vice or other securing means. The brackets shall be oriented as intended for actual use. After securing the bracket mounting feet, a crossbar is secured across the top of the outer-most blade mounting hole(s). The load is suspended from the centre of the crossbar for 1 min. The combined weight of the crossbar, load and means of load suspension shall be in accordance with Table 101. The blade brackets shall be able to withstand the load without any deformation.

Table 101 Static Loads for Blade Brackets

(Clause 20.102.2)

Sl No.	Size of Ceiling Fan ¹⁾	Total Static Load on Sample Blade Bracket ²⁾
(1)	(2)	(3)
i)	Up to and including 1.14 m	89 N
ii)	Above 1.14 m	156 N

¹⁾ Fan blade span (sweep).
²⁾ Include weight of crossbar and means of load suspension.’

(Page 7, Clause 21.102) — Substitute the following for the existing entries:

‘Ceiling fans shall have adequate strength. Compliance is checked by the following test.

Ceiling fans are mounted in accordance with the installation instructions. A load of 10000 N is suspended from the body of the fan for 1 min.

A torque of 50 Nm is then applied to the fixed body of the fan for 1 min. The test is repeated with the torque applied in the reverse direction.

Metal parts used in the suspension system shall have a minimum wall thickness of 1.5 mm. No parts of any hole or slot shall be closer than 5 mm from the edge.

The suspension system shall not break, and the fan shall not be damaged to such an extent that compliance with **8.1**, **16.3** and **29** is impaired.

NOTE — The suspension system shall be either bolted or screwed at the motor end and the suspension end. In case, it is screwed, the threads shall be such as to tend the joints to tighten when the fan is in motion. The joints shall be further secured by the use of lock nut or split pin.’