



TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
IEC 60335-2-103, 3rd Edition (2015)

Household and similar electrical appliances – Safety – Part 2-103: Particular requirements for drives for gates, doors and windows

- “R” Required
- “S” May be subcontracted, see OD 2012
- “SF” Specialized Facility, see IECEE 02-2
- “W” Witness testing in the categories “MED” and “MEAS”
- “3PPS” Three Phase Power Supply required

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
1	Scope	See Annex AA	R
20	Stability and mechanical hazards	See Annex BB, Annex CC and Annex DD	R
31	Resistance to rusting	Scratch test apparatus Salt mist test apparatus	S S
32	Radiation, toxicity and similar hazards	Laser radiation measuring apparatus (IEC 60825-1)	S
Annex AA (Clause 20)	Stability and mechanical hazard	See Annex CC	
Annex BB (Clause 20)	Stability and mechanical hazard	Obstacle (Approx.25 mm x 100 mm x 300 mm) Instrument for measured force (incorporates a rigid plate having a diameter of 80 mm and a spring having a ratio of 500 N/mm ± 50 N/mm)	R R



Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
<i>Annex CC (Clause 20)</i>	<i>Stability and mechanical hazard</i>	<i>Mass(15 kg ± 0.5 kg, 60 mmφ) Reference body(Annex EE) Instrument for measured force (incorporates a rigid plate having a diameter of 80 mm and a spring having a ratio of 500 N/mm ± 50 N/mm)</i>	<i>R R R</i>
<i>Annex DD (Clause 20)</i>	<i>Stability and mechanical hazard</i>	<i>Obstacle (approx. 80 mm×300mm and a height of 100 mm) Obstacle (approx. 80 mm×300mm and a height of 1000 mm) Test piece (approx. 200 mm×300mm and a height of 700 mm) Mass(20kg± 0.5kg, Approx.25 mm × 100 mm × 300 mm) Cylindrical obstacle (50 mm φ, 850 mm long)</i>	<i>R R R R R</i>