

DIN EN 16510-2-5:2025-07 (E)

Residential solid fuel burning appliances - Part 2-5: Slow heat release appliances

Contents	Page
European foreword	4
Introduction	6
1 Scope.....	7
2 Normative references.....	7
3 Terms and definitions.....	8
4 Characteristics	9
4.1 Load bearing capacity	9
4.2 Protection of combustible materials	9
4.3 Carbon monoxide emission (CO).....	10
4.4 Nitrogen oxides (NO _x) emissions.....	10
4.5 Emission of organic gaseous compounds (OGC).....	11
4.6 Particulate matter (PM) emissions	11
4.7 Safety and accessibility in use	12
4.8 Energy economy and heat retention.....	12
4.9 Environmental sustainability.....	14
5 Descriptive features.....	16
5.1 Data for potential use with room ventilation systems: type of appliance (in relation to its tightness to the room).....	16
5.2 Data for the building's statics: appliance's mass.....	16
5.3 Materials and construction elements.....	16
5.4 Risk of burning fuel falling out.....	17
5.5 Temperature rise in the fuel storage.....	17
5.6 Temperature rise of the operating components	17
5.7 Spillage of flue gases into the room.....	17
5.8 Cleanability	17
5.9 Strength and leak tightness of boiler shells	18
6 Assessment and verification of constancy of performance - AVCP	18
6.1 General.....	18
6.2 Assessment of performance.....	18
6.3 Verification of constancy of performance.....	20
Annex A (normative) Test methods.....	25
A.1 Test environment	25
A.2 Test assembly.....	25
A.3 Measurement equipment.....	28
A.4 Test procedures.....	29
A.5 Test results.....	38
A.6 Calculation methods	38
A.7 Test report.....	40
Annex B (normative) Test fuels and recommended fuels	41

Annex C (normative) Arrangement for measuring the leakage rate	42
Annex D (normative) Measuring procedure for nitrogen oxides (NOx)	43
Annex E (normative) Measuring procedure for organic gaseous carbon (OGC).....	44
Annex F (normative) Measurement procedure for particulate matter (PM).....	45
Annex G (normative) Guideline for the characteristics to be considered to decide on families of appliances.....	46
Annex EA (normative) Calculation of an approximate heat release curve against time	48
Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No. 305/2011.....	51