

# DIN EN 17104:2021-03 (E)

## Thermoplastics rigid protective wallcovering panels for internal use in buildings - Performance characteristics

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	Characteristics .....	7
4.1	Reaction to fire .....	7
4.2	Emission of dangerous substances into indoor air .....	8
4.2.1	General .....	8
4.2.2	Emissions of volatile organic compounds (VOC) with exception of formaldehyde .....	8
4.2.3	Emission of formaldehyde .....	8
4.3	Migration of heavy metals .....	9
4.4	Impact resistance .....	9
4.5	Sound absorption .....	9
4.6	Thermal resistance .....	9
5	Testing, assessment and sampling methods .....	10
5.1	Reaction to fire .....	10
5.2	Emissions of volatile organic compounds (VOC) with exception of formaldehyde .....	10
5.3	Emission of formaldehyde .....	10
5.4	Migration of heavy metals .....	10
5.5	Impact resistance .....	11
5.6	Sound absorption .....	11
5.7	Thermal resistance .....	11
6	Assessment and verification of constancy of performance - AVCP .....	12
6.1	General .....	12
6.2	Assessment of performance .....	12
6.2.1	General .....	12
6.2.2	Test samples, testing and assessment criteria .....	13
6.3	Verification of constancy of performance .....	14
6.3.1	Factory production control (FPC) .....	14
6.3.2	Initial inspection of factory and of FPC .....	15
6.3.3	Continuous surveillance of FPC .....	15
Annex A (normative) Extended application rules within a group of product .....		17
A.1	Tests for the reaction to fire performance .....	17
A.1.1	General .....	17
A.1.2	Sampling .....	17
A.1.3	Product parameter having an influence on the reaction to fire performance .....	17
A.1.4	End-use application parameters .....	17
A.1.5	Tests conducted according to EN 13823:2020 intended for an extended application .....	18
A.1.6	Tests conducted according to EN ISO 11925-2:2020 intended for an extended application .....	19
A.2	Test for emission of dangerous substances into indoor air (VOC and formaldehyde) .....	19

<b>A.2.1</b>	<b>General .....</b>	<b>19</b>
<b>A.2.2</b>	<b>Product parameters which influence indoor air emissions .....</b>	<b>19</b>
<b>Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No 305/2011 .</b>		<b>20</b>
<b>ZA.1</b>	<b>Scope and relevant characteristics .....</b>	<b>20</b>
<b>ZA.2</b>	<b>System of Assessment and Verification of Constancy of Performance (AVCP) .....</b>	<b>21</b>
<b>ZA.3</b>	<b>Assignment of AVCP tasks .....</b>	<b>21</b>