

DIN EN 17140:2021-08 (E)

Thermal insulation products for buildings - Factory-made vacuum insulation panels (VIP) - Specification

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions, symbols, units and abbreviated terms	6
3.1	Terms and definitions	6
3.2	Symbols and abbreviated terms	7
4	Characteristics	10
4.1	Reaction to fire	10
4.2	Propensity to undergo continuous smouldering	10
4.3	Release of VOCs	11
4.4	Compressive strength	11
4.5	Tensile/flexural strength	11
4.6	Thermal resistance	12
4.7	Durability aspects	12
5	Assessment methods	13
5.1	General	13
5.2	Test methods	14
6	Assessment and verification of constancy of performance - AVCP	21
6.1	General	21
6.2	Assessment of performance	21
6.3	Verification of constancy of performance	23
Annex A (normative) Determination of the expressed values of thermal resistance and thermal conductivity		25
Annex B (normative) Factory production control (FPC)		27
Annex C (normative) Determination of the aged values of thermal resistance and thermal conductivity including edge effect		30
Annex D (normative) Measurement of p_{1/2} of core materials		40
Annex E (normative) Barrier performance of the envelope		42
Annex F (normative) Determination of desiccant service life time		44
Annex G (normative) Measurement of inner pressure		46
Annex H (normative) Mounting and fixing procedure for reaction to fire tests		53
Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No.305/2011 ..		58
Bibliography		62