

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 p1/2 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