

ISO 17738-1:2021-12 (E)

Thermal insulation products - Exterior insulation finish systems - Part 1: Materials

Contents		Page
Foreword.....		v
Introduction.....		vi
1	Scope.....	1
2	Normative references.....	1
3	Terms definitions and symbols.....	2
	3.1 Terms and definitions.....	2
	3.2 Symbols.....	5
4	Requirements.....	5
	4.1 EIFS constituent products.....	5
	4.2 LA-WRB.....	5
5	Test methods.....	5
	5.1 Requirments.....	5
	5.2 Sampling.....	6
	5.3 Preparation of sample panels.....	6
	5.4 EIFS material tests.....	7
	5.4.1 Ash content.....	7
	5.4.2 Infrared analysis.....	7
	5.4.3 Bond strength tests.....	8
	5.4.4 Water vapour permeance of the lamina.....	8
	5.4.5 Base coat water impermeability test.....	8
	5.4.6 Water absorption of the base coat.....	8
	5.4.7 Finish coat fungus resistance test.....	9
	5.4.8 Lamina salt resistance test.....	9
	5.4.9 Lamina ultraviolet resistance test.....	9
	5.4.10 Reinforcing mesh strength and alkalinity resistance.....	10
	5.4.11 Dry thickness of the base coat.....	11
	5.5 LA-WRB tests.....	11
	5.5.1 Ash content.....	11
	5.5.2 Infrared analysis.....	11
	5.5.3 Bond strength test of the LA-WRB.....	11
	5.5.4 Water absorption coefficient of the LA-WRB.....	12
	5.5.5 Water vapour permeance of the LA-WRB.....	12
	5.5.6 Accelerated weathering resistance test of the LA-WRB.....	12
	5.5.7 LA-WRB joint durability test.....	13
	5.5.8 Nail popping resistance test.....	13
	5.5.9 Air flow rate.....	13
	5.6 EIFS tests.....	13
	5.6.1 EIFS impact resistance test.....	13
	5.6.2 Durability under cyclic environmental conditions test.....	14
	5.6.3 Drainage capacity test.....	15
	5.6.4 Wind load testing.....	15
	5.7 Reporting requirements.....	15
6	Marking, packaging and labelling.....	16
	6.1 Packaging.....	16
	6.2 Labelling.....	16

Annex A (normative) Bond strength testing (5.3.3 and 5.4.3).....	21
Annex B (normative) Water absorption coefficient of the LA-WRB (5.5.4).....	24
Annex C (normative) Joint durability test (5.5.7)	31
Annex D (normative) Nail popping resistance test (5.5.8).....	38
Annex E (normative) Assessing durability of EIFS under cyclic environmental conditions (5.6.2)	42
Annex F (normative) Assessing drainage performance of EIFS (5.6.3).....	54
Annex G (normative) Wind load testing (5.6.4).....	62
Annex H (normative) Test method for pull-off strength of adhered air and water resistive barriers using adhesion tester	70
Annex I (normative) Test specimen preparation for infrared analysis	74
Bibliography	75