



TURKISH ACCREDITATION AGENCY

## ACCREDITATION CERTIFICATE

As a Testing Laboratory,

**EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.**

Dilovası Organize Sanayi Bölgesi 5.Kısım Fırat Cad. No:18 41455  
KOCAELİ / TURKEY

is accredited in accordance with TS EN ISO/IEC 17025:2012 standard within the scope given in Annex following the assessment conducted by **TURKAK**.

**Accreditation Number : AB-0556-T**

**Accreditation Date : 14 December 2012**

**Revision Date / Number : 13 April 2017 / 06**

This certificate shall remain in force until **12 April 2021**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2012**, related regulations and requirements.




**Dr. H. İbrahim ÇETİN**  
Secretary General

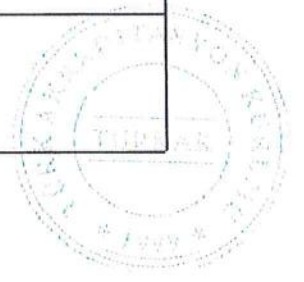
Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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## Accreditation Scope


 <p>Test TS EN ISO/IEC 17025 AB-0556-T</p>	<p><b>EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.</b></p> <p>Accreditation Nr: AB-0556-T Revision Nr: 06 Date: 22.02.2018</p> <p><b>As a Testing Laboratory</b></p> <table> <tr> <td> <b>Address:</b>  Dilovası Organize Sanayi Bölgesi 5.Kısım Fırat  Cad. No:18 41455 KOCAELİ/TÜRKİYE </td><td> <b>Phone</b> : 0262 658 16 62  <b>Fax</b> : 0262 658 16 69  <b>E-Mail</b> : turkey@effectis.com  <b>Website</b> : www.effectis.com </td></tr> </table>	<b>Address:</b> Dilovası Organize Sanayi Bölgesi 5.Kısım Fırat Cad. No:18 41455 KOCAELİ/TÜRKİYE	<b>Phone</b> : 0262 658 16 62 <b>Fax</b> : 0262 658 16 69 <b>E-Mail</b> : turkey@effectis.com <b>Website</b> : www.effectis.com
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Construction Elements - Resistance to Fire	Fire resistance- Tests- Part 1: General requirements	EN 1363-1
	Fire resistance tests- Part 2: Alternative and additional procedures	EN 1363-2
	Fire-resistance tests - Elements of building construction - Part 1: General requirements	ISO 834-1
	Fire tests on building materials and structures. Method for determination of the fire resistance of elements of construction (general principles)	BS 476-20
Construction Elements - Resistance to Fire	Test methods for determining the contribution to the fire resistance of structural members - Part 1:Horizontal protective membranes	EN 13381-1
	Test methods for determining the contribution to the fire resistance of structural members - Part 2: Vertical protective membranes	EN 13381-2
	Test methods for determining the contribution to the fire resistance of structural members - Part 3: Applied protection to concrete members	EN 13381-3
	Test methods for determining the contribution to the fire resistance of structural members - Part 4: Applied passive protection to steel members	EN 13381-4
	Test methods for determining the contribution to the fire resistance of structural members - Part 8: Applied reactive protection to steel members	EN 13381-8

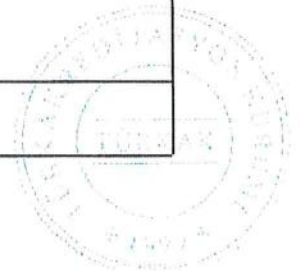



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Construction Elements - Non-loadbearing - Resistance to Fire	Fire tests on building materials and structures. Methods for determination of the fire resistance of non-loadbearing elements of construction	BS 476-22- Chapter.5, Chapter.6, Chapter.7, Chapter.8, Chapter.10
	Fire resistance tests for non- loadbearing elements- Part 1:Walls	EN 1364-1
	Fire resistance tests for non-loadbearing elements- Part 2: Ceilings	EN 1364-2
	Fire resistance tests for non-loadbearing elements - Part 3: Curtain walling - Full configuration	EN 1364-3
	Fire resistance tests for non-loadbearing elements - Part 4: Curtain walling - Part configuration	EN 1364-4
	Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware - Part 1: Fire resistance tests for doors, shutters and openable windows	EN 1634-1
	Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware - Part 2: Fire resistance characterisation test for elements of building hardware	EN 1634-2
	Safety rules for the construction and installation of lifts - Examination and tests - Part 58: Landing doors fire resistance test	EN 81-58
Construction Elements - Loadbearing - Resistance to Fire	Fire tests on building materials and structures. Methods for determination of the fire resistance of loadbearing elements of construction	BS 476-21
	Fire resistance tests for loadbearing elements- Part 1: Walls	EN 1365-1 EN 1365-1/AC

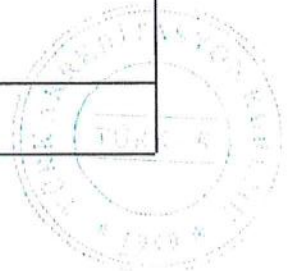


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Construction Elements - Loadbearing - Resistance to Fire, continued)	Fire resistance tests for loadbearing elements- Part 2: Floors and roofs	EN 1365-2
	Fire resistance tests for loadbearing elements - Part 3: Beams	EN 1365-3
	Fire resistance tests for loadbearing elements - Part 4: Columns	EN 1365-4
Construction Elements - Resistance to Fire - Classification	Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services	EN 13501-2
Construction Elements - Service Installations - Resistance to Fire	Fire Resistance Tests For Service Installations-Ducts	EN 1366-1
	Fire resistance tests for non-loadbearing installations- Part 2: Fire dampers	EN 1366-2
	Fire resistance tests for service installations - Part 3: Penetration seals	EN 1366-3
	Fire resistance tests for service installations - Part 4: Linear joint seals	EN 1366-4+A1
	Fire resistance tests for service installations - Part 6: Raised access floors and hollow floors	EN 1366-6
	Fire resistance tests for service installations - Part 8: Smoke extraction ducts	EN 1366-8
	Fire resistance tests for service installations - Part 9: Single compartment smoke extraction ducts	EN 1366-9
	Fire resistance tests for service installations - Part 10: Smoke control dampers	EN 1366-10+A1

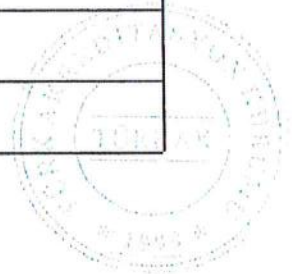



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Construction Elements - Service Installations - Resistance to Fire - Classification	Fire classification of construction products and building elements - Part 3: Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers	EN 13501-3+A1
Construction Elements - Smoke and heat control systems - Resistance to Fire	Smoke and heat control systems - Part 1: Specification for smoke barriers	EN 12101-1 EN 12101-1/A1 (Annex D)
	Smoke and heat control systems-Part 2: Specification for natural smoke and heat exhaust ventilators	EN 12101-2 (Annex G)
	Smoke and heat control systems - Part 3: Specification for powered smoke and heat exhaust ventilators	EN 12101-3 (Annex C and Annex D)
Construction Elements - Smoke and heat control systems - Resistance to Fire - Classification	Fire classification of construction products and building elements - Part 4: Classification using data from fire resistance tests on components of smoke control systems	EN 13501-4
Construction Elements - Resistance to Fire	Fire behaviour of building materials and elements Part 12: Fire resistance of electric cable systems required to maintain circuit integrity - Requirements and testing	DIN 4102-12
Ship Elements - Resistance to Fire	International Code for Application of Fire Test Procedures, 2010- 'A', 'B' ve 'F' Class Divisions	2010 FTP Code Resolution MSC.307(88) Annex I Part 3
Storage Cabinets - Resistance to Fire	Fire safety storage cabinets - Part 1: Safety storage cabinets for flammable liquids	EN 14470-1 Annex A
	Fire safety storage cabinets - Part 1: Safety cabinets for pressurised gas cylinders	EN 14470-2 Annex A

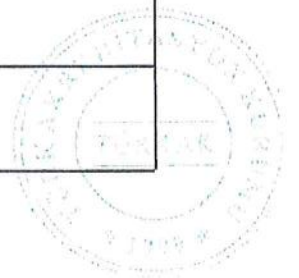



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Secure Storage Units - Resistance to Fire	Secure storage units - Classification and methods of test for resistance to fire - Light fire storage units	EN 15659
Electric Cables - Resistance to Fire	Electric cables - Fire resistance test for unprotected electric cables (P classification)	EN 50577
Construction Elements - Resistance to Fire	Rapid Rise Fire Tests of Protection Materials for Structural Steel	UL 1709
Construction Elements - Resistance to Fire	Fire Tests of Building Construction and Materials	UL 263
Construction Elements - Door Assemblies - Resistance to Fire	Standard for Fire Tests of Door Assemblies	UL 10B
	Standard for Positive Pressure Fire Tests of Door Assemblies	UL 10C
	Fire Tests of Door Assemblies	NFPA 252
Construction Elements - Resistance to Fire	Tests of Fire Endurance of Building Construction and Materials	NFPA 251
Construction Products - Reaction to Fire	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test	EN ISO 11925-2 ISO 11925-2
Construction Products - Reaction to Fire	Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item	EN 13823+A1
Construction Products - Reaction to Fire	Reaction to fire tests for products - Non-combustibility test	EN ISO 1182 ISO 1182
Construction Products - Reaction to Fire	Reaction to fire tests for products - Determination of the gross heat of combustion	EN ISO 1716 ISO 1716

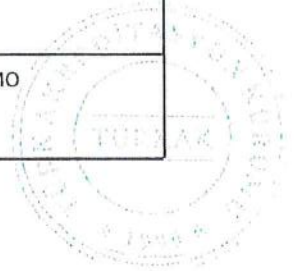


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Construction Products - Reaction to Fire	Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests (Euroclass System)	EN 13501-1+A1
Construction Products - Reaction to Fire	Thermal insulating materials for building applications - Determination of organic content	EN 13820
Construction Products - Reaction to Fire	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame	EN 60332-1-2 EN 60332-1-2/A1 EN 60332-1-2/A11
Construction Products - Reaction to Fire	Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test - Test apparatus, procedures, results	EN 50399 EN 50399/A1
Construction Products - Reaction to Fire	Test on gases evolved during combustion of materials from cables part 1 - Determination of the amount of hydrogen acid gas	EN 60754-1
Construction Products - Reaction to Fire	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity	EN 60754-2
Construction Products - Reaction to Fire	Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements	EN 61034-2 EN 61034-2/A1
Construction Products - Electric Cables - Reaction to Fire	Fire classification of construction products and building elements - Part 6: Classification using data from reaction to fire tests on electric cables	EN 13501-6
Ship Elements - Reaction to Fire	International Code for Application of Fire Test Procedures, 2010 - Non-combustibility test	2010 FTP Code Resolution IMO MSC.307(88) Annex I Part 1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Road Vehicles - Interior materials - Reaction to Fire	Road vehicles and tractors and machinery for agriculture and forestry- Determination of burning behaviour of interior materials	ISO 3795 FMVSS 302
Railway Vehicles - Seats - Reaction to Fire	Regulations relating to fire protection and firefighting measures in passenger carrying railway vehicles or assimilated vehicles used on international services - Appendix 13: Fire resistance of seats	UIC 564-2 Annex 13
Motor Vehicles - Materials - Reaction to Fire	Test to determine the horizontal burning rate of materials	ECE R 118 Ek 6
	Determination of burning behaviour of interior materials in motor vehicles	DIN 75200
	Test to determine the horizontal burning rate of materials	95/28/EC-Ek IV
ETICS Systems - Reaction to Fire	Ash Content	ETAG 004 Article C. 3. 2
	Ash Content	ETAG 004 Article C.1.1.3

End of Scope

  
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Secretary General

