ALLIANZ TEKNİK

The First Accredited Earthquake & Fire Testing and Training Center in Turkey

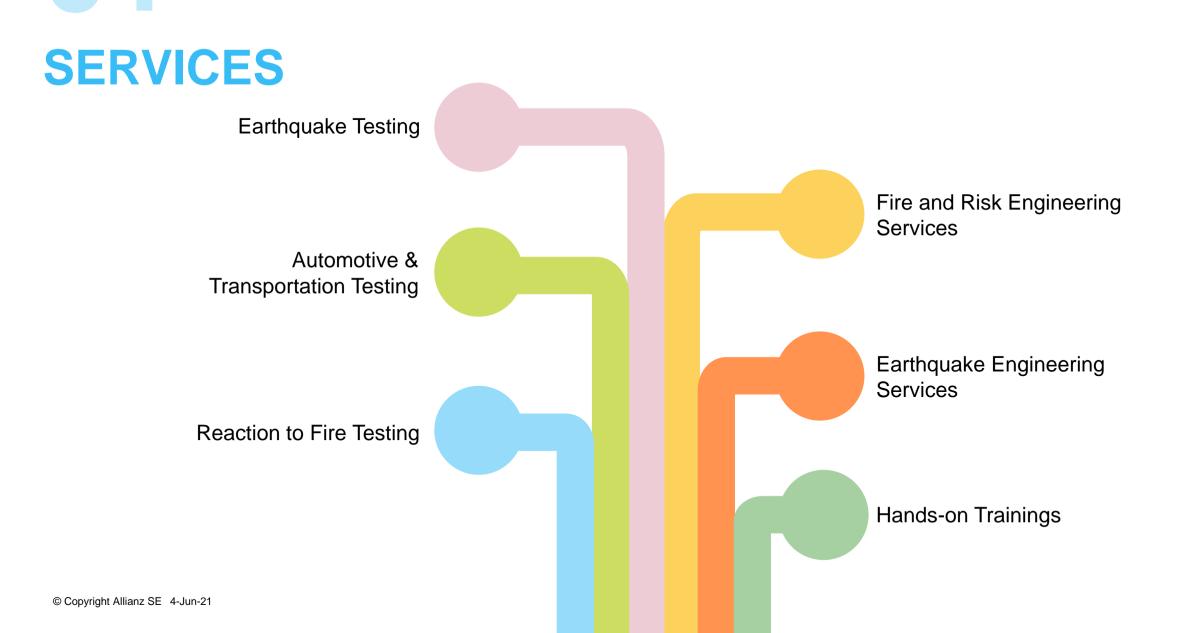
(Accreditation No: AB-1601-T)



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Şirket İçi / Internal







EARTHQUAKE, AUTOMOTIVE AND TRANSPORTATION TESTS

Accredidated test list:

• Seismic Tests:

EN 60068-2-6, EN 60068-2-57, EN IEC 60068-3-3, EN 61587-2, IEEE 693, IEEE/IEC 60980-344, GR-63-CORE, ICC-ES AC156, EC 62271-210, ETSI EN 300 019-2-3

- Automotive and Transportation Tests: ASTM D4169-16, EN 61373, ECE R 100
- Measuring Relay and Protective Gear Tests: EN 60255-21-1, EN 60255-21-2, EN 60255-21-3





SEISMIC TABLES



Table Dimensions3 x 3 m		
Degrees of Freedom	2	
Frequency Range	0 - 50 Hz	
Maximum Actuator Displacement	± 250 mm	
Maximum Specimen Turning Moment	30 meter-ton	
Maximum Carrying Capacity	10 ton	
Maximum Table Acceleration	1 g @ rated load	
Maximum Table Speed	1 m/s	

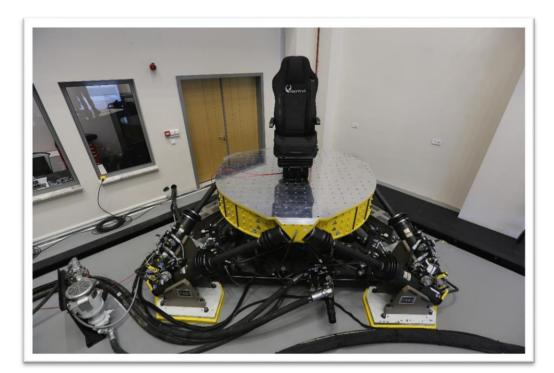


Table Dimensions	2 meters in diameter	
Degrees of Freedom	6	
Frequency Range	0.8 - 200 Hz	
Maximum Carrying Capacity	680 kg	
Maximum Linear Displacement	X: 130 mm Y: 115 mm Z: 145 mm	
Maximum Angular Displacement	Roll: 8.5 Pitch: 7,5 Yaw: 6	
Maximum Linear Acceleration (Bare)	X: 16.7 g Y: 14.1 g Z: 18.1 g	
Maximum Linear Acceleration (Loaded)	X: 10.2 g Y: 8.6 g Z: 11.1 g	



DATALOGGER (SOMAT EDAQ XR)



		Channels	Specifications
Inputs	Analog	32	
	Can	3	
	GPS	1	
Sampling Frequency		NA	0.1 Hz to 100 kHz
Sensors	Accelerometer	6	± 40 g & 0-1200 Hz
	Displacement Sensor	4	500 mm
	Straingage	16	120 Ω

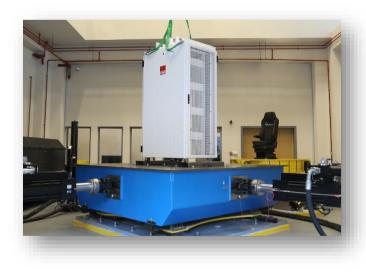
SEISMIC MASS

Accredited laboratories should have the ability to apply test methods with high accuracy according to accreditation standards. "Seismic Mass" is one of the requirements to meet this high accuracy level in accredidated tests. This seismic mass, which has a weight of 650 tons, is "T" shaped and is held 25 mm from the parking position with 26 air flats. According to the tests to be carried out, this position can be increased up to 50 mm. This seismic mass has no ground connection. From the movements to be used from this facility, it will be heated and applied high with a model coming from the ground. As a result, applied vibrations during the tests are not disturbed by reaction forces from the ground and high accuracy levels can be achieved.





TEST EXAMPLES



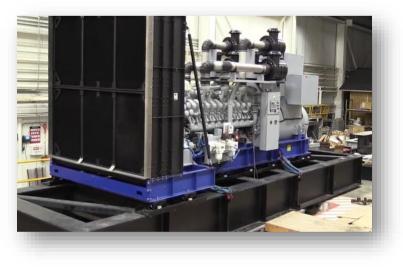
Cabinets and Racks

- Control Units
- Batteries on Racks





- Historical Buildings
- Models
- Distrubition Lines



Machines

- Generators
- Transformers
- Pumps
- Chillers



TRANSPORTATION TESTS



Sheet Metal Industry

- Pallet Static Loading Test
- Vibration Test

Home Appliance

- Road Simulation Test
- Static Loading Test (BCT)

- Automotive
- Road Simulation
- Static Loading Test

Others

- Road Simulation
- Static Loading Test





REACTION TO FIRE TESTING

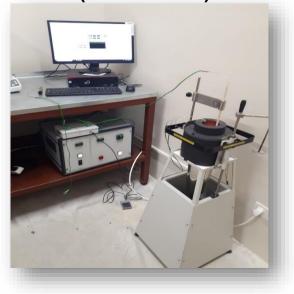
Test Services:

- EN 13823
- EN ISO 9239-1
- EN ISO 1182
- EN ISO 1716
- EN ISO 11925-2
- EN 13501-1 (Fire Classification Standard)



TEST EQUIPMENT

Non-Combustibility Apparatus (EN ISO 1182)



- Determines the non-combustibility performance of building products, under specific conditions
- Fire classifications: A1 and A2

The Single-Flame Source Test (EN ISO 11925-2)



- Determines the ignitability of building products subjected to direct impingement of flame
- Fire classifications: B, C, D, E

Flooring Radiant Panel (EN ISO 9239-1)



- Determines the critical heat flux of building products
- Fire classifications: A_{fl} , B_{fl} , C_{fl} , D_{fl}

TEST EQUIPMENT

Oxygen Bomb Calorimeter (EN ISO 1716)



- Determines the gross heat of combustion of building products under specific conditions
- Fire classifications: A1 and A2



Single Burning Item - SBI (EN 13823)



- Determines the reaction to fire performance for all construction products excluding flooring.
- Fire classifications: A, B, C, D



ENGINEERING SERVICES



ENGINEERING SERVICES

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Fire Engineering Services

Earthquake Engineering Services

Risk Engineering Services

Design, Test and Inspection Services of Fire Protection Systems



HANDS ON TRAININGS

- Earthquake & Fire Risk Training
 Programs
- Hands on Trainings and Certification Programs



U5

FIRE TRAINING ROOM



Alarm Valve Station

- Test and Commissioning Procedures of Alarm Valves
- Operation, Maintenance and Control Procedures of Alarm Valves



Spray Room

- Design Criteria of Fire Protection Systems
- Maintenance, Test and Commissioning
 Procedures of Fire Protection Systems
- Sprinkler System Activation and Operation
 Principles



Fire Pump Station

- Design Criteria of Fire Pumps
- Performance Test of Fire Pumps
- Operation, Maintenance and Control Procedures of Fire Pumps
- Test and Commissioning Procedures of Fire
 Pumps

FIRE TRAINING ROOM



Edok Room

- Real Fire Experience
- Fire Growth Stages
- Fire Alarm and Detection Systems



Demo Panels

- Design Criteria of Fire Alarm and Detection
 Systems
- Maintenance, Test and Commissioning Procedures of Fire Alarm and Detection Systems



Training Modules

Operation Procedures of Fire Protection
 System Equipment

EARTHQUAKE TRAINING ROOM



- Earthquake Risk
- Lego Shake Table

- Earthquake Engineering Trainings
- Quanser



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EARTHQUAKE AND FIRE SIMULATIONS

Kitchen Fire Simulation



Fire Simulation



Respond a Fire Simulation



Earthquake Simulation

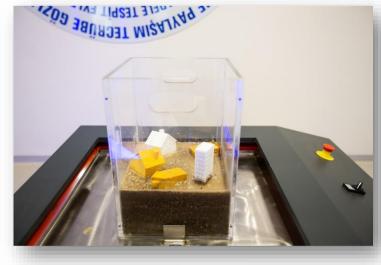


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TRAINING MODULES













THANK YOU

