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Israeli standardization: Energy efficiency and renewable energies

SII – The standards Institution of Israel

Solar systems (thermal energy for water heating)

SI 579-1 SOLAR WATER HEATING SYSTEMS: FLAT COLLECTORS

SI 579-2 SOLAR WATER HEATING SYSTEMS: STORAGE WATER TANKS

SI 579-3 SOLAR WATER HEATING SYSTEMS: THERMAL TESTS FOR FLAT COLLECTORS

SI 579-4 SOLAR WATER HEATING SYSTEMS: THERMOSIPHONIC SYSTEMS- DESIGN, INSTALLATION AND TESTING

SI 579-5 SOLAR WATER HEATING SYSTEMS: CENTRAL SYSTEMS IN BUILDINGS

SI 579-6 SOLAR WATER HEATING SYSTEMS: PUMPED DOMESTIC SYSTEMS

SI 579-7 SOLAR WATER HEATING SYSTEMS: STATIC COMPOUND PARABOLIC CONCENTRATING COLLECTORS

SI 579-8 SOLAR WATER SYSTEMS: THERMAL TESTS FOR DOMESTIC SYSTEMS

SI 579-9 SOLAR WATER HEATING SYSTEMS: ACCELERATING HEATING DEVICES

SI 579-10.1 SOLAR WATER HEATING SYSTEMS: Collectors made of vacuum tubes and collectors made of polymeric materials- General requirements

SI 579-10.2 SOLAR WATER HEATING SYSTEMS: Collectors made of vacuum tubes and collectors made of polymeric materials- Test method

PV systems (solar energy for electricity production)

1. SI 61215 CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES-DESIGN QUALIFICATION AND TYPE) APPROVAL

2. SI 61646 THIN FILM TERRESTRIAL PV MODULES -DESIGN QUALIFICATION AND TYPE) APPROVAL

3. SI 4777-1 GRID CONNECTION OF ENERGY SYSTEMS VIA INVERTERS INSTALLATION REQUIREMENTS

4. SI 4777-2 GRID CONNECTION OF ENERGY SYSTEMS VIA INVERTERS INVERTER REQUIREMENTS

5. SI 4777-3 GRID CONNECTION OF ENERGY SYSTEMS VIA INVERTERS GRID PROTECTION REQUIREMENTS

6. SI 61730-1 Photovoltaic (PV) module safety qualification: Requirements for construction

7. SI 61730-2 Photovoltaic (PV) module safety qualification: Requirements for testing

8. SI 61683 Photovoltaic systems – Power conditioners – Procedure for measuring efficiency

9. SI 62548 Design requirements for PV arrays

Wind Turbines

- 1. SI 61400-2 Wind turbines: Small wing turbines**
- 2. SI 61400-12.1 Wind turbines: Performance testing of wind turbines**
- 3. SI 61400-11 Wind turbines: Acoustic noise techniques**
- 4. SI 61400-21 Wind turbines: electricity quality**
- 5. SI 61400-1 Wind turbines: Design**

Energy efficiency: Energy management

- 1. SI 50001 – ENERGY MANAGEMENT SYSTEMS**
- 2. SI 6179 Energy assessments for industrial systems: steam systems**
- 3. SI 6178 Energy assessments for industrial systems: pumping systems**
- 4. SI 6180 Energy assessments for industrial systems: compressed air systems**
- 5. SI 6177 Energy assessments for industrial systems: process heating systems**
- 6. SI 6176 Walk –In Rooms-Construction and Energy Performance**

Energy efficiency in buildings

- 1. SI 1045-0 THERMAL INSULATION OF BUILDINGS: GENERAL**
- 2. SI 1045-1 THERMAL INSULATION OF BUILDINGS: RESIDENTIAL BUILDINGS**
- 3. SI 1045-2 THERMAL INSULATION OF BUILDINGS: EDUCATION BUILDINGS**
- 4. SI 1045-3 THERMAL INSULATION OF BUILDINGS: OFFICE BUILDINGS**
- 5. SI 1045-4 THERMAL INSULATION OF BUILDINGS: THERMAL INSULATION OF BUILDINGS: HOTELS**
- 6. SI 1045-5 THERMAL INSULATION OF BUILDINGS: HOSPITALS**
- 7. SI 1045-10 THERMAL INSULATION OF BUILDINGS: CLASSIFICATION OF SETTLEMENTS
ACCORDING TO CLIMATOLOGICAL REGIONS**
- 8. SI 5282-1 ENERGY RATING OF BUILDINGS: APARTMENTS IN RESIDENTIAL BUILDINGS**
- 9. SI 5282-2 ENERGY RATING OF BUILDINGS: OFFICE BUILDINGS**
- 10. SI 5281-1 BUILDINGS WITH REDUCED ENVIRONMENTAL IMPACT ("GREEN BUILDINGS") – general**
- 11. SI 5281-2 BUILDINGS WITH REDUCED ENVIRONMENTAL IMPACT ("GREEN BUILDINGS") – residential**
- 12. SI 5281-3 BUILDINGS WITH REDUCED ENVIRONMENTAL IMPACT ("GREEN BUILDINGS") – offices**
- 13. SI 5281-4 BUILDINGS WITH REDUCED ENVIRONMENTAL IMPACT ("GREEN BUILDINGS") – education**
- 14. SI 5281-5 BUILDINGS WITH REDUCED ENVIRONMENTAL IMPACT ("GREEN BUILDINGS") – Tourism**
- 15. SI 5281-6 BUILDINGS WITH REDUCED ENVIRONMENTAL IMPACT ("GREEN BUILDINGS") – health**

- 16. SI 5281-7 BUILDINGS WITH REDUCED ENVIRONMENTAL IMPACT ("GREEN BUILDINGS") – commercial
- 17. SI 5281-8 BUILDINGS WITH REDUCED ENVIRONMENTAL IMPACT ("GREEN BUILDINGS") – Public
- 18. SI 6210- Ventilation for acceptable indoor air quality

Energy efficiency of electrical appliance/ equipment

- 1. SI 721 HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES SAFETY PARTICULAR REQUIREMENTS FOR REFRIGERATING FOR REFRIGERATING APPLIANCES, ICE-CREAM APPLIANCES AND ICE-MAKERS
- 2. SI 900-2.5 HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES SAFETY: PARTICULAR REQUIREMENTS FOR DISHWASHERS
- 3. SI 900-2.6 SAFETY OF HOUSEHOLDS AND SIMILAR ELECTRICAL APPLIANCES: PARTICULAR REQUIREMENTS FOR STATIONARY COOKING RANGES, HOBS, OVENS AND SIMILAR APPLIANCES
- 4. SI 900-2.7 HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES : SAFETY PARTICULAR REQUIREMENTS FOR WASHING MACHINES
- 5. SI 900-2.11 HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES- SAFETY PARTICULAR REQUIREMENTS FOR TUMBLE DRYERS
- 6. SI 62301 HOUSEHOLD ELECTRICAL APPLIANCES- MEASUREMENT OF STANDBY POWER
- 7. SI 5289 MINIMAL ENERGY EFFICIENCY OF ELECTRIC INDUCTION ASYNCHRONOUS THREE-PHASE SQUIRREL CAGE MOTORS
- 8. SI 5484 DISTRIBUTION TRANSFORMERS - REQUIREMENTS FOR ENERGY EFFICIENCY AND LABELLING
- 9. SI 4665-1 PERFORMANCE OF EXTERNAL POWER SUPPLIES TEST METHOD AND ENERGY PERFORMANCE MARK
- 10. SI 4665-2 PERFORMANCE OF EXTERNAL POWER SUPPLIES: MINIMUM ENERGY PERFORMANCE STANDART) MEPS) REQUIREMENTS
- 11. SI 62018 POWER CONSUMPTION OF INFORMATION TECHNOLOGY EQUIPMENT- MEASUREMENT METHODS
- 12. SI 62087 METHODS OF MEASUREMENT FOR THE POWER CONSUMPTION OF AUDIO, VIDEO AND RELATED EQUIPMENT
- 13. SI 5288 Luminaire efficacy rating
- 14. SI 520 TUBULAR FLUORESCENT LAMPS FOR GENERAL LIGHTING SERVICE
- 15. SI 520-2 SINGLE-CAPPED FLUORESCENT LAMPS: SAFETY AND PERFORMANCE REQUIREMENTS
- 16. SI 5485 BALLASTS FOR FLUORESCENT LAMPS- ENERGY EFFICIENCY REQUIREMENTS AND LABELLING
- 17. SI 60432-1 INCANDESCENT LAMPS: SAFETY SPECIFICATIONS: TUNGSTEN FILAMENT LAMPS FOR DOMESTIC AND SIMILAR GENERAL LIGHTING PURPOSES
- 18. SI 60432-2 INCANDESCENT LAMPS- SAFETY SPECIFICATIONS TUNGSTEN HALOGEN LAMPS FOR DOMESTIC AND SIMILAR GENERAL LIGHTING PURPOSES

19. SI 69-1 ELECTRIC WATER HEATERS: THERMOSTATICALLY CONTROLLED AND THERMALLY INSULATED HEATERS
20. SI 994-1 AIR CONDITIONERS AND PERFORMANCE REQUIREMENTS
21. SI 994-3 AIR CONDITIONERS: LABORATORY ACOUSTICAL MEASUREMENTS
22. SI 994-4 AIR CONDITIONERS:INSTALLATION
23. SI 5039 FAN-COIL UNITS FOR CENRTAL AIR CONDITION SYSTEMS SAFETY AND PERFORMANCE REQUIREMENTS
24. SI 1676 HOT WATER HEATING INSTALLATIONS
25. SI 401-1 ASSESSING THERMAL PERFORMANCE OF BOILERS FOR STEAM, HOT WATER AND HIGH TEMPERATURE HEAT TRANSFER FLUIDS: CONCISE PROCEDURE
26. SI 401-2 ASSESSING THERMAL PERFORMANCE OF BOILERS FOR STEAM HOT WATER AND HIGH TEMPERATURE HEAT TRANSFER FLUIDS: COMPREHENSIVE PROCEDURE
27. SI 838-2 DOMESTIC SPACE HEATING OIL STOVE INSTALLATION STOVE
28. SI 5813 PERFORMANCE RATING OF WATER-CHILLING PACKAGES USING THE VAPOR COMPRESSION CYCLE
29. SI 995 LPG - FIRED DOMESTIC HEATING STOVES
30. SI 907 DOMESTIC GAS APPLIANCES FOR BAKING, COOKING AND GRILLING
31. SI 13256-1 Water-source heat pumps-Testing and rating performance: water to air and brain to air heat pumps
32. SI 13256-2 Water-source heat pumps-Testing and rating performance: water to water and brine to water heat pumps
- 33.SI 6226 Heat pumps with electrical driven compressors: Safety and performance requirements

Energy efficiency in transportation

1. SI 5937 AUTOMOTIVE FULES-WATER IN DIESEL FUEL EMULSIONS -FOR USE IN INTERNAL COMBUSTION ENGINES REQUIREMENS AND TEST METHODS
2. SI 5731 AUTOMATIVE FUELS - FATTY ACID METHYL ESTERS - (FAME)FOR DIESEL ENGINES)BIODIESEL) REQUIREMENTS AND TEST METHODS

In preparation:

1. SI 6119 Compressed natural gas (CNG) for vehicles: requirements and test methods
2. Compressed natural gas (CNG) for vehicles: fuelling stations