



TECHNICAL SPECIFICATION FOR HEKİM PANEL SYSTEM CONTAINER

Panel Exterior and Interior Surfaces: Film-Coated Painted Ral 9002 Galvanized Sheet Steel

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| FORM OF PRODUCTION | Its profiles are produced by roll forming, walls comprise Hekim Sandwich Panels, panel interior and exterior surfaces are film-coated, COIL COATING system, panel system covered with prepainted sheet steel, modular structure | |
| | Standard sizes of the containers manufactured are 2.40x6.00x2.60m and 3.00x7.00x2.60m . Approximate weight of containers: (for type HKA1) 2.40x6.00m 1200 kg, and 3.00x7.00m 1500 kg. All materials used are certified by TSE. | |
| LOAD-BEARING SYSTEM | Composed of upper chassis, lower chassis frame profiles, corner profiles and C-profiles supporting lifting eye, made of galvanized roll steel sheet manufactured in the roll forming line, and folded into final shape. In special projects, following structural calculations, the profile wall thickness and width may be changed, or industrial profiles and DKP/Galvanized column-beam reinforcement and welding/screws/bolts may be used. | |
| TECHNICAL DATA | Snow load | 80 kg/m² - TS 498 and TS EN 1991-1-3 |
| | Wind speed | 102 km/hour (50 Kg/ m²) TS 498 and TS EN 1991-1-4 |
| | External wall thermal conductivity | K: 0,62 Kcal/m²hC (K:0,72 W/m² K) |
| | Internal wall thermal conductivity | K: 0,59 Kcal/m²hC (K:0,68 W/m² K) |
| | Roof thermal conductivity | 40mm Thick EPS insulated roof panel : K: 0,72 Kcal/m²hC (K:0,84 W/m² K) |
| | Floor thermal conductivity | K: 3,38 Kcal/m²hC (K:3,92 W/m² K) |
| | Chassis load capacity | 200 kg/m², calculated according to T.S. 498. |
| | Earthquake zone | Effective ground acceleration coefficient : Ao=0,40 (1 st degree earthquake zone) |
| | | Structural Importance Coefficient I = 1 |
| | APPLICABLE STANDARDS | Live load participation factor n :0,3 |
| DESIGN-STRUCTURAL : EUROCODE 3 , TS 498, TS 648, TS 11372 | | |
| Thermal Insulation : TS 825 , Thermal insulation requirements for buildings (8.05.2000) | | |
| Climate zone | Wall insulation is suitable for 1st climate region (K:0,70 W/m ² K). | |
| | Roof insulation is suitable for ~ 1st climate region (K:0,45 W/m ² K). | |
| EXTERNAL WALLS | Total external height | 2635 (including lifting eye) |
| | Net internal height | 2350 mm , alla turca (squat) toilet for WC, decreases 290 mm. |
| | Exterior Walls | 50 mm thick Sandwich Wall Panel-Cold Room Panel |
| | External surface covering | 0,35 mm thick, COIL COATING system prepainted S type galvanized steel, (Refer to S-type pitch) |

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| | Insulation | ~50 mm polystyrene foam (EPS) - , fire class B1, 14 - 16 kg/m ³ |
| | Internal surface | 0,35 mm thick, COIL COATING system prepainted S type galvanized steel, |
| INTERNAL WALLS | Internal wall height | 2350 mm |
| | Interior Walls | 50 mm thick Sandwich wall panel cold room panel |
| | Panel Inner and Outer Surface | 0,35 mm thick, COIL COATING system prepainted S type galvanized steel, |
| | Panel Insulation | ~50 mm polystyrene foam (EPS) - , fire class B1, 14 - 16 kg/m ³ |
| FLOOR COVERING | Construction | 120x145x 1,5 mm special form frame profile and 100x50x1,5 mm cold formed C-section profile, galvanized DX51D + Z |
| | Covering | As floor covering over 16 mm thick fiber cement plates, TPO membrane PVC floor covering |
| | Floor covering only for WC containers | As floor covering for WC containers equipped with (alla turca) squat toilet, glass wool reinforced acrylic monoblock squat toilet and other sections than squat toilet will be covered with TPO membrane PVC. |
| | Floor covering only for shower containers | As floor covering for shower containers equipped with shower tray. Glass wool reinforced acrylic monoblock shower tray and other sections than shower tray will be covered with TPO membrane PVC. |
| ROOF AND CEILING COVERING | Roof Construction | 120x145x 1,5 mm special form cold formed profile (galvanized DX51D + Z), the roof panels and the top profile are composed of two C support. (The rain waters are evacuated holes in the top frame) |
| | Roof Covering | 40mm thick with 5 pitches |
| | Panel Outer Surface | 0,35-0.40 mm thick, COIL COATING system prepainted galvanized corrugated sheet steel, pitch depth is 27 mm |
| | Panel Insulation | 40 mm polystyrene foam (EPS) - , fire class B1 |
| | Panel Interior Surface (Ceiling) | 0,35-0.40 mm thick, COIL COATING system prepainted S type corrugated galvanized sheet steel, |
| DOOR JOINERY | Exterior door (HEKİM INDUSTRIAL OVEN cured paint, 1 mm galvanized sheet steel frame) | 845x1960x45mm Insulated sheet steel door(external dimensions) |
| | | COIL COATING film covered 0.5 mm pre-painted galvanized steel sheet coating system in RAL 9002, double side fiberboard and EPS-filled steel door |
| | | Door frames are specially formed and provided with rubber seals. |
| | Interior doors (HEKİM INDUSTRIAL OVEN cured paint, 1-1,20 mm galvanized sheet steel frame) | 840/1960 mm Mdf-laminated vacuum press door (external dimensions) |
| | | Door leaf thickness : 42 mm |
| | Wet area doors (HEKİM INDUSTRIAL OVEN cured paint, 1 mm galvanized sheet steel frame) | 620x1960 mm mdflam (external dimensions), leaf thickness : 42 mm |
| 18mm 600x1830mm MDFLAM door leaves in toilet groups | | |

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| | Door lock and handle | External door locks are cylinder lock, internal door locks are mortise locks , door handles gold or grey colored metal door handles. | |
| WINDOW JOINERY | Window (1,0 mm painted with galvanized sheet steel frame) | 970/1200 mm - , PVC Handles | |
| | Kitchen-toilet-shower | 100x100 mm PVC fixed culvert | |
| GLASS | DOUBLE GLAZED | 4+9+4 mm – | |
| PAINT | Exterior doorframe | In CURING OVEN FACILITY , Finish coat electro statically applied oven-cured acrylic paint, DYO brand RAL 9002 | |
| | Window frames | RAL9002 COIL COATING system prepainted galvanized sheet steel | |
| | Internal door frames | In CURING OVEN FACILITY , Finish coat electro statically applied oven-cured acrylic paint, RAL 9002 | |
| | External Corner Covers –Horizontal Collar ties | RAL5015 blue cold galvanizing paint | |
| | Exterior Surfaces | COIL COATING system RAL 9002 Oyster white Prepainted galvanized sheet steel | |
| | Other metal components | Galvanized construction is not painted. | |
| ELECTRIC AND TELEPHONE WIRING Surface Mounted | Cable | (2000 Watt, 220 Volt, 50 Hz.) | |
| | | Socket and Line sorties 3X2.5 mm ² NYM, With surface mounted cable-ducts, | |
| | | Lighting lines and sorties 2X1.5 mm ² NYM, With surface mounted cable-ducts, | |
| | | Telephone cable 1x2 , With surface mounted cable-ducts | |
| | Lighting fixtures | Normal space | Globe fixtures – lighting lamps, fixtures |
| | | Wet areas | Glop-IP 44, |
| | | Above external door | |
| | Electrical Sockets, Switches | Surface mounted | |
| | Fuses, fuse boxes | Automatic fuses | |
| | | Fuse boxes | |
| Residual Current Protection | 1*40A 30 mA Mono-Phase Residual Current Protection Relay | | |
| Telephone sockets | (available in adequate number according to layout plan) | | |
| Main line connection | will be fulfilled by the employer company, to thermoplastic junction box and telephone box . | | |

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| SANITARY PIPING Surface Mounted | Sanitary ware / Mixer taps | Washbasins | 37x45 cm wall-mounted |
| | | Washbasin and shower taps | Installations allow for using instantaneous water heater (by customer). Water taps are mounted to wall. |
| | | Toilet | European toilet , , plastic cistern |
| | | | Bidet nozzle |

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| | | Squat toilet | Overall dimensions 92x102 cm monoblock squat toilet made of glass wool reinforced acrylic material |
| | | Shower tray | Overall dimensions 80*80 cm monoblock shower tray made of glass wool reinforced acrylic material |
| | | Kitchen sink | 50/100 cm sink made of chrome material, double wing bottom cupboard made of melamine coated chipboard. No upper cupboard. 100 cm sink cupboard. |
| | | Accessories | PVC toilet paper holder, soap dispenser, mirror, toilet seat |
| | Piping | Fresh water | PPRC - |
| | Sewage water | PVC - | |
| HANDLING SYSTEM | Loading and unloading operation should be carried out by connecting equal-distance ropes to the lifting plates, mounted on the two long sides, with locks. Standard containers are designed so as to be used as single storey. Containers can be also put side by side as modules as well as they can be produced with two storeys on demand. | | |
| FLATPACK SYSTEM | OPTIONAL: Approximately 55 cm thick horizontal or vertical package system where lower and upper chassis are fastened with short apparatuses, and panel and accessories of container are placed between them. 8-10 units of 2.40x6.00m containers can be loaded to a single trailer. | | |

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