This specification data sheet is provided by Geberit as a technical support tool incident to the sale of its concealed carrier systems and fixtures for wall-hung toilets, urinals, bidets and lavatories. Geberit is solely responsible for its content. Contact manufacturer for more information on these and other products. Geberit, 2100 S. Clearwater Drive, Des Plaines, IL 60018. Telephone: 800-566-2100. Fax: 847-803-5454. Website: www.Geberit.us

**SECTION 22 40 00 – PLUMBING FIXTURES (CONCEALED CARRIER SYSTEMS)**

**SECTION 22 41 00 – RESIDENTIAL PLUMBING FIXTURES**

**SECTION 22 42 00 – COMMERCIAL PLUMBING FIXTURES**

**1. PRODUCT NAME**

**Geberit Concealed Carrier Systems**

Carrier fixtures and systems for wall-hung toilets, urinals, bidets and lavatories.

**2. MANUFACTURER**

Geberit

2100 S. Clearwater Drive

Des Plaines, IL 60018

Telephone: 800-566-2100

Fax: 847-803-5454

Website: www.Geberit.us

**3. PRODUCT DESCRIPTION**

**Basic Use**

Geberit systems are suitable for new construction, remodeling or replacement applications.

**Manufacturer Memberships and Affiliations**

EPA WaterSense Partner

Charter Sponsor, Alliance for Water Efficiency

U.S. Green Building Council member in good standing

**Manufacturer Qualifications**

Provider of advanced installer training.

EPA WaterSense Partner.

Charter Sponsor, Alliance for Water Efficiency.

Member in good standing of U.S. Green Building Council

ISO 9001 Certified

ISO 14001 Certified

Capable of demonstrating an extended history of plumbing fixture and system design, production and innovation.

**Illustrations**

(EDITOR NOTE: INSERT LINE ART, SCANNED IMAGES, TABLES from manufacturer literature as appropriate.)

(EDITOR NOTE: Suggested illustrations. Show installation process. Show typical finished installations.)

**4. TECHNICAL DATA**

**Applicable Standards**

Note: The standards numbers and titles below are provided for specifier information and reference. The purpose of this information is to fully identify standards that are referenced elsewhere using abbreviated nomenclature. Utilize this information as appropriate to suit specifier practice and Project requirements.

American National Standards Institute (ANSI):

ANSI Z124.4: Plastic Water Closet Bowls and Tanks.

American Society of Mechanical Engineers (ASME):

ASME A112.6.2: Framing-Affixed Supports for Off-The-Floor Water Closets with Concealed Tanks.

ASME A112.19.14: Six Liter Water Closets Equipped with a Dual Flushing Device.

American Society of Mechanical Engineers (ASME) / Canadian Standards Associations (CSA) – Harmonized Standards:

ASME A112.18.1/CSA B125.1: Plumbing Supply Fittings.

ASME A112.18.2/CSA B125.2: Plumbing Waste Fittings.

ASME A112.19.2/CSA B45.1: Ceramic Plumbing Fixtures.

ASME A112.19.5/CSA B45.15: Flush Valves and Spuds for Water Closets, Urinals, and Tanks.

American Society of Sanitary Engineering (ASSE):

ANSI/ASSE 1002: Anti-Siphon Fill Valves for Water Closet Tanks.

ASSE 1037: Performance Requirements for Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures.

Canadian Standards Association (CSA):

CSA B125.3: Plumbing Fittings.

Gauley and Koeller:

Uniform North American Requirements for Toilet Fixtures (UNAR/UNAR-HET).

Geberit:

Geberit Installation Manual.

International Association of Plumbing and Mechanical Officials (IAPMO):

IAPMO PS50: Flush Valves with Dual Flush Device for Water Closets or Water Closet Tank with an Integral Flush Valve with a Dual Flush Device.

International Organization for Standardization (ISO):

ISO 9001: Quality Management.

ISO 14001: Environmental Management.

ISO 14021: Environmental Labels and Declarations -- Self-Declared Environmental Claims (Type II environmental labelling).

United States Environmental Protection Agency, Office of Water (EPA):

WaterSense specification for tank-type toilets.

**Physical Properties**

Test reports are available to design professionals upon request.

**Technical Properties**

**A. Wall-Hung Toilet Carriers**

Complies with:

UNAR-HET

ANSI Z124.4

ASME A112.6.2

ASME A112.19.2/CSA B45.1

ASME A112.19.5/CSA B45.15

ASME A112.19.14

ANSI/ASSE 1002

CSA B125.3

IAPMO PS50

EPA WaterSense specification for tank-type toilets

Water Consumption: Dual-flush ready, 1.6/0.8 gallons per flush (6/3 liters per flush) with effective flush volume of 1.1 GPF (4 LPF) **OR** 1.2/0.8 gallons per flush (4.5/3 liters per flush) with effective flush volume of 1.0 GPF (3.9 LPF)

Fill Valve: Anti-siphon type with integrated water hammer arrestor.

Tank Material: High density polyethylene (HDPE) insulated to prevent condensation.

Carrier Material: 16-gauge powder coated steel.

Load Rating: 880 lbs. (400 kg) without damage to finished wall or carrier unit.

Toilet Bowl Height Adjustment: 15 to 19 inches (381 to 483 mm).

Note: Nominal frame height varies by frame model. Edit to suit Project requirements and coordinate with other product selections.

Nominal Frame Height:

44-1/16 inches (1120 mm) for Sigma 2x6

47-1/4 inches (1200 mm) for Sigma 2x4 (2016 version)

32-1/4 inches (820 mm) for Omega.

**Flush actuator features for Sigma Tank with manually-operated Sigma01 flush plate:**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Plastic.

Finish/Color: Select finish/color designation.

**Flush actuator features for Sigma Tank with manually-operated Sigma20 flush plate:**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Plastic or Die-cast metal.

Finish/Color: Select finish/color designation.

**Flush actuator features for Sigma Tank with manually-operated Sigma21 flush plate:**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Glass or Slate or Custom Owner-supplied.

Finish/Color: Select finish/color designation.

**Flush actuator features for Sigma Tank with manually-operated Sigma30 flush plate**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Plastic or Die-cast metal.

Finish/Color: Select finish/color designation.

**Flush actuator features Sigma Tank with manually-operated Sigma50 flush plate:**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Die-cast metal.

Inlay Material: Plastic or Stainless steel or Glass or Custom Owner-supplied.

Finish/Color: Select finish/color designation.

**Flush actuator features for Sigma Tank with manually-operated Sigma60 flush plate:**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Glass or Stainless steel.

Finish/Color: Select finish/color designation.

**Flush actuator features for Sigma Tank with manually-operated Sigma70 flush plate**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Glass or Stainless steel.

Finish/Color: Select finish/color designation.

**Flush actuator features for Sigma Tank with manually-operated Sigma10 flush plate**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Plastic or Stainless steel.

Finish/Color: Select finish/color designation.

**Flush actuator features for Sigma Tank with hands-free operated Sigma10 flush plate**

Actuation Type: Flush plate.

Operation Type: Hands-free.

Mechanism Type: Electrical, AC powered using Geberit accessory transformer 115.861.00.1 or Electrical, DC battery powered.

Frame Material: Plastic or Stainless steel.

Finish/Color: Select finish/color designation.

**Flush actuator features for Sigma Tank with hands-free operated Sigma80 flush plate**

Actuation Type: Flush plate.

Operation Type: Hands-free.

Mechanism Type: Electrical, AC powered using Geberit accessory transformer 115.861.00.1.

Plate Material: Die-cast metal.

Inlay Material: Glass.

Finish/Color: Select finish/color designation.

**Compatible Toilet Bowl Fixtures:**

Blu Bathworks

Devon & Devon

Duravit

DXV

Icera

Kallista

Kohler

Lacava

Laufen

Neo-Metro

ROCA

TOTO

Villeroy & Boch

Kallista

Tynan Plumbing.

Material: Vitreous china or Stainless steel.

Type: Wash down, two hole.

Height: Standard or Child or Handicapped.

Rim Contour: Elongated or Regular round front or Compact or Compact elongated.

Color: White or other.

**Toilet Seats:**

Manufacturer and Model Designation: Select requirements.

Type: Residential or Commercial.

Material: Plastic or Wood composite.

Shape: Elongated or Regular round front or Compact or Compact elongated.

Configuration: Open front or Closed front.

Color: Black or White or other.

**B. Wall-Hung Urinal Carriers and Fixtures**

Complies with:

ASME A112.6.2

ASSE 1037

CSA B125.3

Water Consumption: 0.5 gallons per flush (1.9 liters per flush).

Carrier Material: 16-gauge powder coated steel.

Load Rating: 110 lbs. (50 kg) without damage to finished wall or carrier unit.

Nominal Frame Height: 44-1/16 inches (1120 mm).

**Flush actuator features for manually-operated unit with Type 30 flush plate**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Plastic.

Finish/Color: Select finish/color designation.

**Flush actuator features for manually-operated unit with Type 50 flush plate**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Die-cast metal.

Inlay Material: Plastic or Stainless steel or Glass or Custom Owner-supplied.

Finish/Color: Select finish/color designation.

**Flush actuator for manually-operated unit with Type 10 flush plate**

Actuation Type: Flush plate.

Operation Type: Manual.

Mechanism Type: Mechanical/pneumatic/hydraulic.

Plate Material: Stainless steel.

Finish/Color: Select finish/color designation.

**Flush actuator for hands-free operated unit with Type 10 flush plate**

Actuation Type: Flush plate.

Operation Type: Hands-free.

Mechanism Type: Electrical, AC powered using transformer provided or electrical, DC battery powered.

Frame Material: Stainless steel.

Finish/Color: Select finish/color designation.

**Compatible urinal fixtures**

Blu Bathworks

Duravit

Villeroy & Boch

Material: Vitreous china.

Type: Siphon jet with or without extended shields.

Strainer or Trapway: Manufacturer standard with integral trap.

Color: White or select color.

**C. Wall-Hung Bidet Carriers and Fixtures**

Complies with:

ASME A112.18.1/CSA B125.1

ASME A112.18.2/CSA B125.2

ASME A112.19.2/CSA B45.1

Note: EPA WaterSense label applies to specific bidet fixtures. Consult with Geberit for more information.

EPA WaterSense Label

Carrier Material: 16-gauge powder coated steel.

Load Rating: 880 lbs. (400 kg) without damage to finished wall or carrier unit.

Nominal Frame Height: 32-1/4 inches (820 mm) or 44-1/16 inches (1119 mm).

Fixture Rim Height Adjustment Range: 15 inches (381 mm) to 19 inches (483 mm).

**Compatible Bidet Fixtures**

Blu Bathworks

Duravit

Icera

Lacava

Laufen

ROCA

Villeroy & Boch

Material: Vitreous china.

Type: Two-hole wall hung, spray or flushing rim or spray with flushing rim.

Overflow: Required or not required.

Color: White or select other color.

**D. Wall-Hung Lavatories**

Complies with:

ASME A112.18.1/CSA B125.1

ASME A112.18.2/CSA B125.2

ASME A112.19.2/CSA B45.1

Carrier Material: 16-gauge powder coated steel.

Load Rating: 330 lbs. (150 kg) without damage to finished wall or carrier unit.

Frame Height: 38-9/16 inches (979 mm).

Fixture Rim Height Adjustment Range: 31-1/2 inches (800 mm) to 39-1/2 inches (1000 mm).

**Compatible Lavatory Fixtures**

Duravit

Lacava

Laufen

Villeroy & Boch

Material: Vitreous china.

Type: Two-hole mounting, wall hung, oval or rectangular.

Size: Select to suit Project requirements.

Faucet Hole Punching: One, two or three holes.

Color: White or select other color.

**Environmental Considerations**

Construction metals generally are readily recyclable at the end of their service life. The raw materials used in manufacture of metal components also come from recycled sources. Post-industrial and post-consumer recycled content varies. Consult with manufacturer for more information.

**5. INSTALLATION**

**Handling and Storage**

Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays. Deliver materials to Project in manufacturer’s original unopened, undamaged containers with identification labels intact. Store materials and accessories protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by manufacturer off ground, under cover and not exposed to weather and construction activities.

**Examination**

Verify that all substrate conditions are suitable for installation of carrier system and fixtures in compliance with manufacturer’s recommendations. Do not begin installation until substrates have been properly prepared and any conditions not in compliance with manufacturer’s recommendations have been corrected

**Carrier and Fixture Installation**

Comply with manufacturer’s product recommendations, including but not limited to the Geberit Installation Manual, and installation information in product literature and on product packaging. Comply with Drawings (and Shop Drawings if applicable) for installing carrier, fixtures, hardware, accessories, and all related components. Install carrier plumb and level. Anchor securely to structure in correct orientation to adjacent construction as indicated. Comply with installation instructions for proper integration into wall system. Adjust fixtures, hardware and accessories as applicable for correct fit and reliable operation.

**Field Quality Control**

If requested by Owner, provide manufacturer’s field service consisting of product use recommendations and periodic site visits for observation of product installation in accordance with manufacturer’s recommendations.

**Cleaning**

Remove protective films and non-permanent labels prior to 90 days after installation. Remove excess sealant, soiling, dirt and other substances. Clean fixture surfaces. Avoid damaging coatings and finishes. Repair or replace components broken, scratched or damaged during construction prior to Substantial Completion. Remove and lawfully dispose of construction debris from Project site.

**Protection**

Protect installed fixtures and finish surfaces from damage during construction until completion of Project and acceptance by Owner.

**Building Codes**

Current data on building code requirements and product compliance may be obtained from Geberit technical support specialists. Installation must comply with requirements of the authority having jurisdiction.

**6. AVAILABILITY AND COST**

**Availability**

Geberit products are nationally distributed and supported from convenient locations nationwide. Manufacturer has the ability to ship worldwide. Contact manufacturer for information on local availability.

**Cost**

Budget installed cost information may be obtained from a local Geberit distributor or directly from the manufacturer.

**7. WARRANTY**

Coordinate with Conditions of the Contract and with Division 01 Closeout Submittals (Warranty) Section. Geberit provides a manufacturer's transferrable, non-prorated limited warranty periods as follows:

Tank and carrier: Lifetime

Fill and Flush Valve: 10 years

Actuator Flush Plate: 1 year

**8. MAINTENANCE**

No specific maintenance is required for properly installed carrier systems and compatible fixture products. Periodic inspection to verify system integrity and drainage functionality is advised.

**9. TECHNICAL SERVICES**

Technical assistance, including more detailed information, product literature, test results, project lists, assistance in preparing project specifications and arrangements for application supervision, is available by contacting Geberit.

**10. FILING SYSTEMS**

Additional product information is available from the manufacturer upon request.

Trademarks include those owned by Geberit.

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