



Commonwealth of Massachusetts  
Executive Office of Energy & Environmental Affairs

## Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

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### GENERAL USE CERTIFICATION

Pursuant to Title 5, 310 CMR 15.00

Name and Address of Applicant:

Eljen Corporation  
125 McKee Street  
East Hartford, CT 06108

Trade name of technology and model number: Eljen GSF System, models B43 and A42 (hereinafter the "System"). The "Geotextile Sand Filter, (GSF) Design & Installation Manual", including calculations and schematic drawings of typical Systems, an inspection checklist, and a System Installation Form are part of this Approval.

Transmittal Number: X238402  
Date of Issuance: Revised March 19, 2013

#### Authority for Issuance

Pursuant to Title 5 of the State Environmental Code, 310 CMR 15.000, the Department of Environmental Protection hereby issues this Certification for General Use to: Eljen Corporation 125 McKee Street, East Hartford, CT 06108 (hereinafter "the Company"), certifying the System described herein for General Use in the Commonwealth of Massachusetts. The sale, design, installation, and use of the System are conditioned on compliance by the Company, the Designer, the Installer and the System Owner with the terms and conditions set forth below. Any noncompliance with the terms or conditions of this Certification constitutes a violation of 310 CMR 15.000.

David Ferris, Director  
Wastewater Management Program  
Bureau of Resource Protection

March 19, 2013

Date

This information is available in alternate format. Call Michelle Waters-Ekanem, Diversity Director, at 617-292-5751. TDD# 1-866-539-7622 or 1-617-574-6868

MassDEP Website: [www.mass.gov/dep](http://www.mass.gov/dep)

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## Technology Description

The System is an alternative subsurface Soil Absorption System that replaces a conventional soil absorption system (SAS) designed in accordance with 310 CMR 15.000. The System is a modular absorption system constructed with geotextile fabric and cusped plastic cores bedded on a twelve (12) inch layer, and surrounded by at least six (6) inches of Specified Sand (ASTM C-33 or System sand). The System is installed without aggregate. A four inch perforated distribution pipe is installed on top of the System to distribute wastewater over the entire absorption system. A geotextile cover of non-woven polypropylene fabric is placed over the System to prevent the intrusion of fines from backfill.

## Conditions of Approval

The term “System” refers to the Alternative Soil Absorption System in combination with the other components of an on-site treatment and disposal system that may be required to serve a facility in accordance with 310 CMR 15.000.

The term “Approval” refers to the technology-specific Special Conditions, the Standard Conditions for General Use Certification of Alternative Soil Absorption Systems, the General Conditions of 310 CMR 15.287, and any Attachments.

For Alternative Soil Absorption Systems that have been issued General Use Certification for the installation of Systems to serve facilities where the site meets the requirements for new construction, the Department authorizes reductions in the effective leaching area (310 CMR 15.242), subject to the Standard Conditions that apply to all Alternative Soil Absorption Systems with General Use Certification and subject to the Special Conditions below applicable to this Technology.

## Special Conditions

1. The System is an approved Patented Sand Filter System for use as an Alternative Soil Absorption System. In addition to the Special Conditions contained in this Approval, the System shall comply with all Standard Conditions for Alternative Soil Absorption Systems, except where stated otherwise in these Special Conditions.
2. The System is approved for facilities where a conventional system with a reserve area exists or can be built on-site in full compliance with the new construction requirements of 310 CMR 15.000 and has been approved by the local approving authority.
3. This Certification shall not be used for the installation of a System to upgrade or replace an existing failed or nonconforming system, unless the facility meets the siting requirements for new construction, including a reserve area.
4. The separation distance to the estimated seasonal high groundwater elevation shall be measured from the bottom of the System sand below the Eljen GSF System.

5. System can be installed in trench or bed or field configuration, as defined in 310 CMR 15.251 and 15.252. The effective leaching area shall be as presented in the Company's "Geotextile Sand Filter, (GSF) Design & Installation Manual.
6. Systems with greater than 18 inches of soil depth over the GSF modules shall be installed with differential venting for aeration and inspection access at end of each run of pipe, section or serial bed and whenever the System is installed under impervious surfaces.
7. Serial distribution laterals shall be limited to no more than 500 gpd with each lateral a maximum of 100 feet, and must be laid level. Multi-level systems shall not be allowed.
8. System component material specifications for the pipe, plastic components, fabric and sand shall comply with the specifications identified in the initial I/A technology approval. Prior approval from the Department for any change from these specifications shall be requested in writing.
9. **Any changes to the approved plans must receive prior Local Approving Authority (LAA) approval. Before a Certificate of Compliance can be issued by the LAA the System Designer must include any changes to the approved plan into the as-built plans.**