



Summary of Specifications and Approved Uses of Processed Glass Aggregate Massachusetts, New Hampshire, and Vermont - Environmental and Transportation Agencies

State	Environmental Gradation and Contamination Requirements	Environmental Approved Uses	Transportation Gradation and Contamination Requirements	Transportation Approved Uses	Disposal Ban
MA	<ul style="list-style-type: none"> 100% of PGA must pass 3/8" sieve PGA must consist of clean mixed color cullet with a maximum residual content (i.e., food, paper, etc.) of 5% by volume No glass products other than food or beverage containers (i.e., fluorescent lights, video screens, windowpanes, etc.) 	<ul style="list-style-type: none"> Subgrade construction applications Subsoil drainage systems Substitute for conventional aggregate in asphalt or concrete Daily cover 	<ul style="list-style-type: none"> 100% of PGA must pass 3/8" sieve Maximum of 5% mass of the material may be produced from china dishes, ceramics, plate glass or other glass products Allowed at a maximum addition rate of 10% by mass provided any subbase material will not be exposed The material shall consist of recycled glass food or beverage containers free of debris such as paper, metals, fabrics, toxins, clay or loam 	<ul style="list-style-type: none"> Structural fill Subbase material for roads 	Yes
NH	<ul style="list-style-type: none"> 100% of PGA shall pass a 1" sieve 	<ul style="list-style-type: none"> Subbase material for roads, bedding material for pipes and fill around retaining walls and foundations Shall not be applied to ground surface and left uncovered as a final application; not approved as general fill If used in public works application, must meet specifications of town or governmental unit using it If used in private application, must meet specifications as determined by professional engineer or architect licensed in NH 	<ul style="list-style-type: none"> 100% of PGA must pass 3/8" sieve Up to 20% PGA may be used to replace road base gravel (20% PGA/80% gravel mix) Glass cullet shall meet requirements of AASHTO M318 	<ul style="list-style-type: none"> Glass cullet base course blends shall be capped with standard specification base course materials before the traveling public can drive over the material. Drainage Pipe bedding Structural fill Subbase material for roads 	No
VT	<ul style="list-style-type: none"> 95% of the material shall pass a 1" (25.0mm) sieve Not more than 3% of the material passing the No. 4 (4.75mm) sieve shall pass a No. 200 (0.075mm) sieve Material shall contain 5% or less by mass china dishes, ceramics or plate glass Material shall be less than 1% screw tops, plastic cap rings, or other contaminants 	<ul style="list-style-type: none"> Base course, subbase layer and embankments for roadway, trails, parking lots and sidewalk applications Utility trench bedding and backfill applications Drainage applications Filter media for wastewater treatment systems Landfill cover Bulking agent for compost 	<ul style="list-style-type: none"> 95% of the material shall pass a 1-inch (25.0 mm) sieve Not more than 3% of the material passing the No. 4 (4.75 mm) sieve shall pass a No. 200 (0.075 mm) sieve Materials used to produce PGA shall consist of recycled glass food or beverage containers Small amounts (less than 5% total) of china dishes, ceramics, plate (window or mirror) glass, or other glass products allowed in PGA PGA material shall not contain more than trace amounts of screw tops plastic cap rings, or other contaminants Amounts of contaminants greater than 1% by weight shall be grounds for rejection of the entire PGA batch 	<ul style="list-style-type: none"> Structural fill Subbase material for roads Drainage PGA subbase blends must be approved for use on the Project by the Engineer in writing prior to being placed on a Project. In-place blending of PGA with other materials is not permitted 	Yes



Northeast Resource Recovery Association
(800) 223-0150; www.nrra.net

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Sources and contact information:

Massachusetts

Dept. of Environmental Protection

PGA Specifications: <https://www.mass.gov/files/documents/2018/01/30/policy-brokenglass.pdf>

Contact: Greg Cooper, Division Director – BAW Business Compliance & Recycling, greg.cooper@mass.gov, 617-292-5988

Dept. of Transportation

PGA Specifications (found in supplemental specifications): <https://www.mass.gov/files/documents/2017/10/23/SupplementalSpecs20150701.pdf#page=209>

Contact: Daniel N. Digilio, *Civil Engineer – Quality Assurance*, Massachusetts Department of Transportation Materials and Research, daniel.digilio@dot.state.ma.us
MassDOTQCML@dot.state.ma.us (general inquiries)

New Hampshire

Dept. of Environmental Services

PGA Specifications: <https://www.des.nh.gov/organization/divisions/waste/swmb/pdrs/documents/11.pdf>

Contact: New Hampshire Department of Environmental Services Solid Waste Bureau, solidwasteinfo@des.nh.gov, 603-271-2925

Dept. of Transportation

PGA Specifications (found in highway design specifications):

https://www.nh.gov/dot/org/projectdevelopment/highwaydesign/specifications/documents/2010_Division_300.pdf

Contact: Deirdre Nash, Assistant Research Engineer, Deirdre.Nash@dot.nh.gov, (603) 271-8995

Vermont

Department of Environmental Conservation

PGA Specifications: <https://dec.vermont.gov/sites/dec/files/wmp/SolidWaste/Documents/ProcessedGlassAggregateAcceptableUsePolicy.pdf>

Contact: Barb Schwendtner, *Solid Waste Compliance Chief*, Waste Management & Prevention Division, Vermont Department of Environmental Conservation, barb.schwendtner@vermont.gov

Agency of Transportation (VTrans)

PGA Specifications (found in Standard Specifications):

<https://outside.vermont.gov/agency/VTRANS/external/docs/construction/02ConstrServ/PreContract/2018SpecBook/2018%20Standard%20Specifications%20for%20Construction.pdf>

Contact: Nick Van Den Berg, *P.E. Materials Manager*, Highway Division Construction & Materials Bureau, Vermont Agency of Transportation, nick.vandenberg@vermont.gov

Disposal Ban Resource:

https://nerc.org/documents/disposal_bans_mandatory_recycling_united_states.pdf