



## Summary of Specifications and Approved Uses of Processed Glass Aggregate In New England - Environmental and Transportation Agencies

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



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	<b>Governs municipal and private use, including in municipal and private roads</b>		<b>Governs state use, including in state highways</b>		
<b>CT</b>	<ul style="list-style-type: none"> <li>Crushed recycled glass may include glass food or beverage containers with less than 5%, by volume, of other solid waste material e.g. plastic, metal or paper</li> <li>Has been combined by processing source-separated recyclable solid waste at an intermediary processing facility</li> <li>Cannot be marked as cullet for remelt</li> <li>Must have components that measure not greater than 3/8"</li> <li>Must be virtually inert</li> </ul>	<ul style="list-style-type: none"> <li>Landfill cover</li> <li>Fill material including aggregate for asphalt or concrete or any other subgrade construction application in which the glass would serve as a substitute for sand or stone aggregate</li> <li>Glass material may not constitute greater than 10% by volume of clean fill</li> </ul>	<ul style="list-style-type: none"> <li>If glass is used in reclaimed waste, its individual particles shall be no larger than 1 inch and shall be thoroughly mixed with other embankment materials such that its content anywhere in the embankment shall not exceed 25% by weight</li> <li>Stockpiled reclaimed waste material containing no more than 25% of glass by weight and no more than 2% by weight of asphalt cement may be used for part or all borrow requirements</li> <li>If glass is used in bituminous concrete materials, crushed recycled container glass (CRCG) must: (1) not exceed 5% by weight of total aggregate; (2) contain no more than 1% by weight of contaminants such as paper, plastic and metal; and (3) 100% must be crushed to 3/8 of an inch or less</li> </ul>	<ul style="list-style-type: none"> <li>Embankment material as reclaimed waste</li> <li>To meet borrow requirements</li> <li>May be used in bituminous concrete mixtures for pavement subbase and base courses</li> <li>Engineer approval required</li> </ul>	<b>Yes</b>
<b>ME</b>	<ul style="list-style-type: none"> <li>No state specifications for PGA</li> </ul>	<ul style="list-style-type: none"> <li>NA</li> </ul>	<ul style="list-style-type: none"> <li>No state specifications for PGA</li> </ul>	<ul style="list-style-type: none"> <li>NA</li> </ul>	<b>No</b>
<b>RI</b>	<ul style="list-style-type: none"> <li>No State specifications for PGA</li> </ul>	<ul style="list-style-type: none"> <li>NA</li> </ul>	<ul style="list-style-type: none"> <li>No state specifications for PGA</li> </ul>	<ul style="list-style-type: none"> <li>NA</li> </ul>	<b>Yes</b>

\*Municipal Disposal Ban or Mandatory Recycling for Glass - Resource: [https://nrc.org/documents/disposal\\_bans\\_mandatory\\_recycling\\_united\\_states.pdf](https://nrc.org/documents/disposal_bans_mandatory_recycling_united_states.pdf)



Northeast Resource Recovery Association  
(603) 736-4401; [www.nrrarecycles.org](http://www.nrrarecycles.org)

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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](mailto: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, Materials and Research, [daniel.digilio@dot.state.ma.us](mailto:daniel.digilio@dot.state.ma.us)  
[MassDOTQCML@dot.state.ma.us](mailto: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](mailto:solidwasteinfo@des.nh.gov), 603-271-2925

##### Department of Transportation

PGA Specifications (found in highway design specifications):

[https://www.nh.gov/dot/org/projectdevelopment/highwaydesign/specifications/documents/2010\\_Division\\_300.pdf](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](mailto: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, [barb.schwendtner@vermont.gov](mailto: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, [nick.vandenberg@vermont.gov](mailto:nick.vandenberg@vermont.gov)

#### Connecticut

##### Dept. of Energy & Environmental Protection

PGA Specifications: [https://www.cga.ct.gov/current/pub/chap\\_446d.htm#sec\\_22a-208z](https://www.cga.ct.gov/current/pub/chap_446d.htm#sec_22a-208z)

Contact: Chris Nelson, Supervising Environmental Analyst, [chris.nelson@ct.gov](mailto:chris.nelson@ct.gov)

##### Dept. of Transportation

PGA Specifications: [https://portal.ct.gov/-/media/DOT/documents/dconstruction/specs\\_section/000\\_Form818\\_2020\\_Color-\(1\).pdf](https://portal.ct.gov/-/media/DOT/documents/dconstruction/specs_section/000_Form818_2020_Color-(1).pdf)

Contact: David Kilpatrick, Connecticut Department of Transportation, [David.Kilpatrick@ct.gov](mailto:David.Kilpatrick@ct.gov)