



Standard Test Procedures Manual

Section: SAMPLING

Subject: GLASS BEADS

1. SCOPE

1.1. Description of Test

This method describes the sampling of reflectorized glass beads used for centreline striping at points of storage or delivery. Whenever possible, samples will be taken from the shipment immediately upon delivery.

1.2. Application of Test

The samples will be used to determine whether or not the material meets the Specification for Manufactured Materials SMM 803 - GLASS BEADS FOR TRAFFIC PAINTS.

2. APPARATUS AND MATERIAL

2.1. Equipment

A glass bead sample auger as shown in Figure 111-1.

Plastic sample bags (420 mm x 250 mm in size).

Tags, tape, felt markers, stapler, crescent wrench.

Each striping crew should have a sampler, sample bags, etc. but should none be available, contact Technical Standards and Policies Branch, Materials Section.

2.2. Batch Size

Glass beads are normally delivered to a storage site in batches of sixty drum lots. Each batch consists of 20 pallets with 3 drums to a pallet. The drums are 205 litres (45 gallon) in size and contain 300 kg of reflectorized glass beads. Each drum is identified with the suppliers batch number.

2.3. Number of Samples

From each 60 drum batch, samples are taken from 10 drums selected at random.

3. PROCEDURE

3.1. Sampling Procedure

Mark the 10 drums selected for sampling with a felt marker pen as Sample #1, Sample #2, etc. up to #10.

Remove lid and undo plastic liner bag to expose glass beads for sampling in drum #1.

Auger the sampler to the bottom of the drum and let fill (ie. wait approximately 30 seconds).

Remove the sampler and empty contents into a plastic sample bag.

Auger the sampler to the mid-point of the drum, fill, remove and empty contents into the plastic bag containing sample from bottom one-third of drum.

Auger the sampler to the top one-third of the drum, fill, remove and empty contents into the plastic bag containing sample from bottom two-thirds of drum.

3.2. Labeling and Packaging of Samples

Label sample by placing tag with suppliers batch number, sample number, storage site location, person to whom test results are to be forwarded to and date sampled, inside plastic bag containing sample.

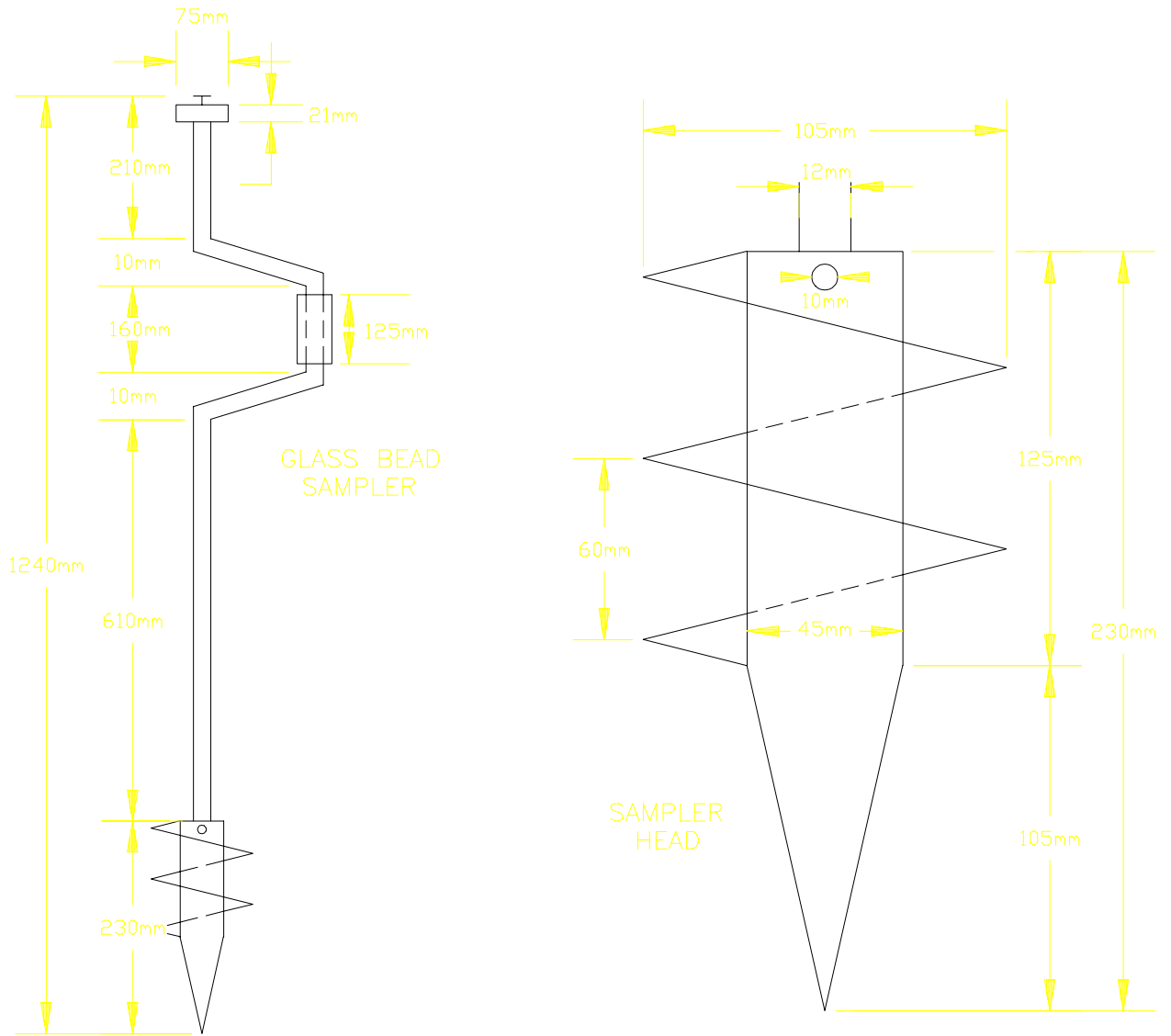
Fold end of bag containing sample several times and staple shut.

Close plastic liner bag containing glass beads in drum using tape and replace lid on drum #1.

Repeat the above procedure for 9 remaining drums to be sampled.

3.3. Shipping Samples

Ship 10 samples in appropriately sized box by bus or designated courier to Technical Standards and Policies Branch, Materials Section, 1610 Park Street, Regina, Sask., S4P 3V7.



GLASS BEAD SAMPLER

FIGURE 111-1

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STP 111

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APPROVAL SHEET

New Revision Date of Previous Document 88-06-01

Effective Date: 92-07-25

Description of Revision (Reason for Revision):

- Format of test procedure updated and Department reorganization reflected.

Review/Implementation Process:

- Reviewed by the Materials Section of the Technical Standards and Policies Branch.

Other Manuals/Policies Affected:

Nil

Follow Up/Training Required:

Nil

Comments/Concerns/Implications (Budget/Environment/Stakeholders):

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Quality Control Engineer Date

Approval Recommended by R.A. Widger 92-07-21
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Approval Recommended by A.R. Gerbrandt 92-07-23
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Assistant Deputy Minister, Infrastructure Date

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