RUBBER SNOWPLOW BLADES MGS-03-05A

1.0 DESCRIPTION. This specification covers rubber snowplow blades.

2.0 MATERIALS.

2.1 RUBBER.

2.1.1 The rubber shall be vulcanized and the physical properties shall be in accordance with the following.

Physical Property	Specification	Value
Tensile Strength	ASTM D412	2500psi (min)
Modulus Strength @ 100%	ASTM D412	300psi (typical)
Modulus Strength @ 200%	ASTM D412	800psi (typical)
Modulus Strength @ 300%	ASTM D412	1350psi (typical)
Elongation @ break	ASMT D412	400% (min)
Hardness (Shore A)	ASTM D2240	60 (±5) pts
Tear Resistance (Die C)	ASTM D624	200 lbs/in (min)
Density	ASTM D297	1.15 (±0.01)
Compression Set (22 hrs @ 70°C)	ASTM D395	15% typical (25% max)
Compression Set (22 hrs @ 100°C)	ASTM D395	25% typical (50% max)
Low Temp Brittleness (-40°C)	ASTM 2137	Pass
Ozone Resistance (3 days – 25pphm)	ASTM D1149	Pass

2.1.2 The rubber after being aged in a forced air oven at 70°C for 70 hours shall be in accordance with the following:

Physical Property	Specification	Value
Tensile Strength	ASTM D412	-30% (max)
Elongation	ASTM D412	-50% (max)
Hardness	ASTM D2240	± 15 pts (max)

2.2 DIMENSIONS. The physical measurements of each blade shall meet the dimensions as shown on the attached drawing or as specified. The thickness shall be 1 ½ inches ± 1/8 inch and the width shall be 8 inches +/- ¼ inch. The length shall be specified. All tolerances shall be +/- 1/16 inch except the length. The tolerance on the length shall be +/- 1/2 inch.

3.0 HOLE PUNCHING. All holes shall be elongated, meeting the sizes indicated on the attached drawing.

4.0 CERTIFICATION. The fabricator shall furnish to the engineer, a certification stating that the blades furnished are in accordance with all requirements of this specification. The certification shall include or have attached specific results of physical test and properties of the rubber conforming to Section 2.1 of this specification. The certification for each shipment shall accompany the material to the destination.

5.0 INSPECTION. The material will be inspected at the source or at the destination as determined by the engineer.

6.0 ACCEPTANCE. Acceptance of rubber blades furnished under this specification will be based upon appropriate certification and upon inspection by the engineer.

CERTIFICATION STATEMENT
RUBBER SNOWPLOW BLADES

State Materials Engineer
P. O. Box 270
Jefferson City, Missouri 65102

Dear Sir:

We hereby certify that the rubber blades described below comply with all requirements of Specification MGS-03-05A and in accordance with Bid Request No. _____.

The following blades manufactured by _____are covered by this certification.

Purchase Order No.	Destination	Quantity & Size	Shipping Date

Following are results of test performed on these blades:

Chemical Composition
Percent C _____
Percent Mn _____
Percent P _____
Percent S _____

Hardness _____

Weight Per Linear Foot _____

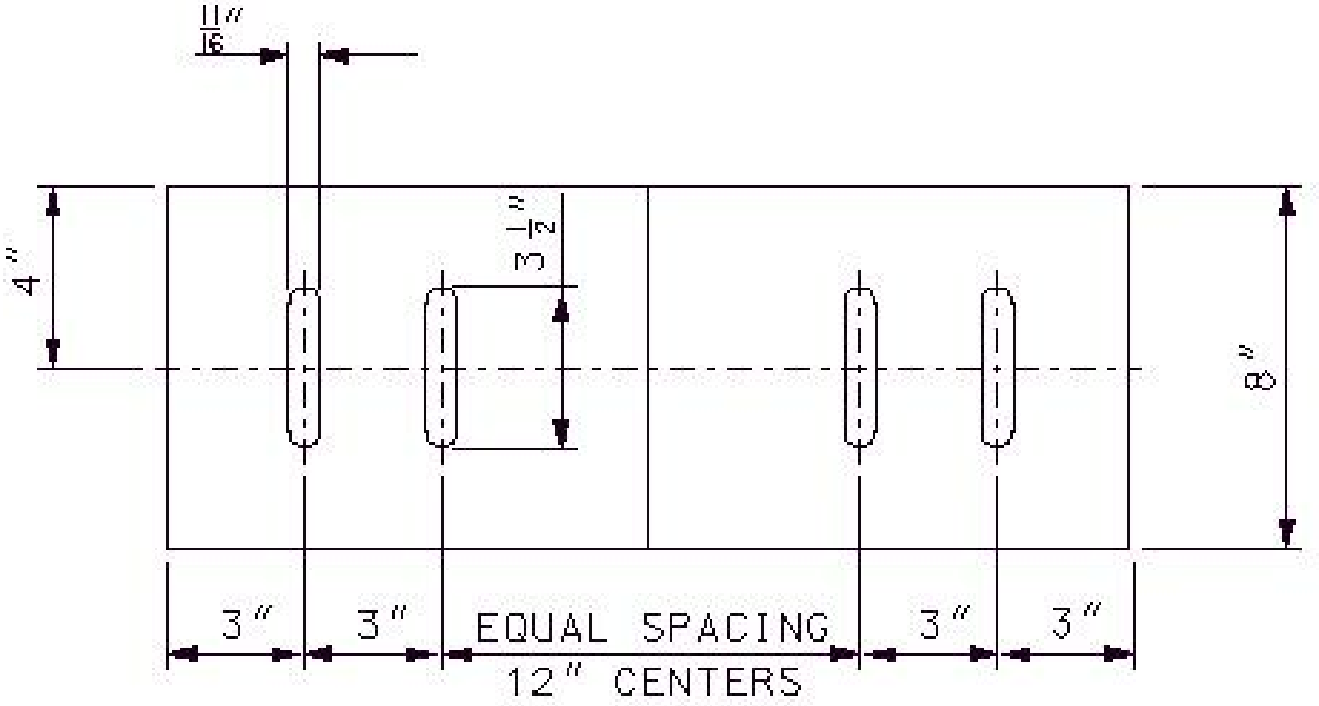
Certified By: _____

Title: _____

Date:_____

Results of tests may be shown on attachments rather than on this form, if preferred.

This form is to be completed, signed, and submitted in triplicate for each shipment, at the same time as blades are shipped. A shipment is defined as all blades represented on one certification and shipped on one date, regardless of various destinations.



Rubber Snowplow Blade