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1. PROPRIETARY PRODUCT/MANUFACTURER

1.1 Proprietary Products: Loktuff Flooring and Guardian SuperSport mats designed for use in weight rooms, fitness areas, locker rooms, ice arena perimeter flooring or anywhere tough commercial flooring is needed.

1.2 Manufacturer:

Humane Manufacturing Company LLC
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1.3 Proprietary Product Description

1.3.1 Product Manufacture Process: Humane Loktuff Flooring and Guardian SuperSport Mats are manufactured from recycled truck tire rubber buffings that Humane then re-grinds and sifts. The buffings are then vulcanized under heat and pressure to produce a solid mat. This process creates a rubber mat that offers high value for tensile strength as well as tear and abrasion resistance.

1.3.2 Guardian and Guardian SuperSport options:

Guardian SuperSport:

- 3/8"** (10mm) thick, 4 ft (1.2m) by 6 ft (1.8m) slabs; 55 lbs (25 kg) non-bevel only
- 1/2"** (13mm) thick, 4 ft (1.2m) by 6 ft (1.8m) slabs; 73 lbs (34 kg) non bevel only
- 3/4"** (19mm) thick, 4 ft (1.2m) by 6 ft (1.8m) slabs; 105 lbs (47 kg) non bevel only.

NOTE: Due to molding process, 4 ft by 6 ft mat sizes may vary slightly. If using these mats to cover an area, the mats will have to be "trued" to achieve completely straight edges.

Guardian Interlock System

-**3/8"** (10mm) thick; 4 ft (1.2m) by 4 ft (1.2m) Approximately 36 lbs (16.3kg) Center, Border, and Corner interlocking pieces. Also, 2 ft (.6m) by 4 ft (1.2m) Approx 16 lbs (7.3kg) and 2 ft (.6m) by 2 ft (.6m) approx 8 lbs (3.6kg) Border and Corner interlocking pieces.

-**1/2"** (13mm) thick; 4 ft (1.2m) by 4 ft (1.2m) approx 45 lbs (20.4kg) Center, Border and Corner interlocking pieces. Also 2 ft (.6m) by 4 ft (1.2m) approx 22 lbs (10kg) and 2 ft (.6m) by 2 ft (.6m) approx 11 lbs (5kg) Border and Corner interlocking pieces.

Both 3/8" and 1/2" pieces above are available in Bevel or Non-Bevel edges.
3/4" (19mm) thick; 3 ft (.9m) by 4 ft (1.2m) Approx 49 lbs (22.2kg) Center interlocking pieces. 2 ft (.6m) by 3 ft (.9m) approx 24 lbs (10.9kg) and 2 ft (.6m) by 4 ft (1.2m) approx 33 lbs (15kg) Border interlocking pieces. 2 ft (.6m) by 2 ft (.6m) approx 16 lbs (7.3kg) Corner interlocking pieces. Available in Bevel or Non-Bevel edges.

Humane has in house CAD/Engineering operation to calculate size and number of pieces needed to cover any area. Over 500 layouts already programed and ready to cut. Layout drawings available upon request.

1.4 Manufacturer Product Recommendations: Both Loktuff Flooring and Guardian SuperSport Mats are intended to be a loose lay product, no adhesive is necessary. Humane Mats and Flooring are not recommended for applications where there is prolonged exposure to direct sunlight (UV) as this will harden the mats over time. It is also not recommended that mats are exposed to any petroleum based products as those will deteriorate rubber.

2. PRODUCT TECHNICAL DATA

2.1 Original Compression-Deflection Results

- @20 PSI 5%
- @50 PSI 10%
- @150 PSI 20%
- @750 PSI 50%

2.2 Thickness Tolerance

- 3/8" Mats - + .035
- 1/2" Mats - + .040
- 3/4" Mats - + .045

2.3 Mat Bevels: 30 degrees truncated

2.4 Specific Gravity: (H2O=1) 1.12

2.5 Density: LBS/CU FT = 70

2.6 R Value: 1/BTU/HR/SQFT/IN/Deg Fahrenheit=1

2.7 Recycled Content: 94%

2.8 Environmental & Chemical:

Abrasion, Creep, Impact, Resistivity
GOOD

Vibration, Sound, Oxidation, Alcohol
GOOD

Water, Insulation, Bacterial Growth
GOOD

Mild Acids and Alkalines
GOOD

Tear, Steam, Weather, Animal/Veg oils
FAIR

Concentrated Acids and Alkalines
FAIR

Ozone, Gasoline, Aromatic Hydrocarbons
POOR

Spike/Skate Traffic
VERY GOOD

2.9 Physical Properties

Durometer-Shore A (ASTM D-2240)
63

Tensile Strength (ASTM D-412)
800

Elongation % (ASTM D-412)
275

Tear Resistance (ASTM D-624)
135

Coefficient of Friction (ASTM C1028)
0.85 dry
0.95 wet

Taber Abrasion (ASTM C-501) 1000, CY, MG
300

Flame Resistance (UL94HB)
PASS

Flame Resistance (MIL-M15562F)
PASS

Coefficient of Expansion-IN/IN/Deg Fahrenheit
0.00012

Recycled Rubber Purity - %
99.5

Durometer Tolerance
60-65

3. INSTALLATION

3.1 The installation of Humane Loktuff Flooring or Guardian SuperSport Mats should not begin until all other construction is completed, especially overhead work and drywall work. If mats or flooring are being placed on newly poured concrete, the concrete must be sealed prior to laying mats down. Subsurface must be smooth, flat and free of all foreign material. Mats should be placed in the area of installation for 24 hours prior to laying them down to make sure they are at same temperature. Written installation instructions are available upon request or found on Humane website.

3.2 Guardian Flooring installations:

a. If the wall layout contains borders on 2 sides perpendicular to each other, lay those first.

b. Fill in rows and columns of center pieces until you get the other two walls.

c. Trim to fit.

Note: when Humane mats are installed, the diamond surface needs to be on top.

How to trim the sides:

a. The mats are easy to cut. A good utility knife with a sharp blade, a jigsaw, or a reciprocating saw all work well.

b. A good tip is to have silicone or non petroleum lubricant handy, keeping the blade lubricated will aid in cutting. Be sure to take proper safety precautions when cutting.

c. Another helpful tip is to place a wooden 2 x 4 under the mat along the line of the intended cut creating an arch. Cutting along this arch, the mat will have a tendency to split and pull apart more easily as the knife is pulled through the mat.



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Guardian Island:

This type of installation does not require the use of tools. Just fit pieces together. For reference a 31'1" x 29'9" island can be done in 1.5 hours.

3.2 Guardian SuperSport installations:

Start from a straight edge wall and work your way across the room. These mats just butt up next to each other. Due to the molding process mats are not always perfectly rectangular, some trimming is required, please follow the cutting instructions stated previously. Humane has ability to "true" edges of Guardian SuperSport mats upon request for an extra charge.

4. AVAILABILITY

4.1 Available through authorized Humane dealers and distributors both nationally and internationally.

5. WARRANTY

5.1 Humane Manufacturing guarantees its Guardian SuperSport and Loktuff rubber flooring for a period of five (5) years against deterioration due to faulty materials or workmanship.

This Guarantee does not cover damage that could occur from other abuses beyond the general intended application of the product; no does it cover damage or deterioration caused by the use of adhesives.

No other warranty is expressed or implied. Limit of liability from any losses resulting from the use of this product shall be for the purchase only, and applied in the form of a credit, excluding any freight charges.

6. CLEANING AND MAINTENANCE

6.1 Humane mats are easy to keep clean and maintain since, in most cases, sweeping or vacuuming is all that is required to keep the mats clean. A "beater brush" vacuum works best.

More stubborn dirt and grime can be removed with warm water and a mild cleaner. A mild solution of Dawn's Dishwashing Liquid and water works extremely

When the mats are new, and if the room has less than adequate ventilation, there can be instances when sensitive noses will notice a rubber smell.

Cleaning the mats soon after installation goes a long way towards reducing this odor. We've been told that scented Pinesol works very well in this regard. There is still no substitute for proper ventilation however.

Whatever the cleaner used however, it is important to make sure all the cleaner residue is mopped up thoroughly. Cleaners containing a wax agent are not recommended, as the wax can cause build up.

Caution: Oil, grease, and solvents should not be left on the mats for extended periods of time. Wipe off as soon as possible and clean any residue with soap and water.

DO NOT use petroleum-based cleaners on the mats, as these can cause deterioration.

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