

Astroturf Recycling Ltd

ARTIFICIAL TURF RECYCLING PLANT AND STAGES REPORT



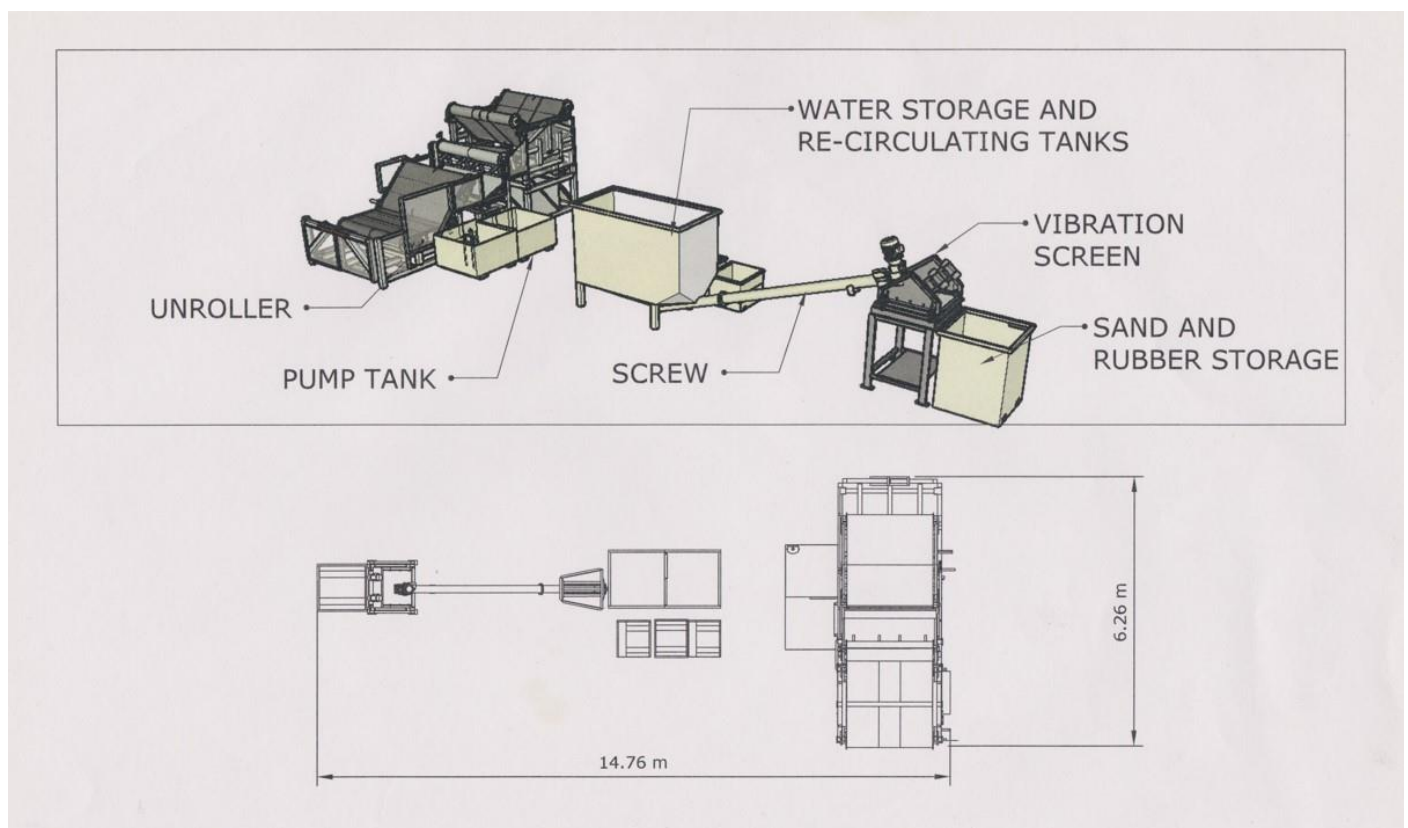
Report completed by Mrs. Linda Ridley
TEL: 07447 159 101
E: info@astroturf-recycling.co.uk
W: www.astroturf-recycling.co.uk

Astroturf Recycling Ltd

STAGE 1.

The rolls of carpet turf are presented to the Unroller. Here the rolls are unrolled, the sand, rubber and other materials contained within the carpet, go through a first cleaning process where they are scrubbed using a special pump and removed by washing and beating the carpet. The sand, rubber and dirt and any other contaminants are then floated off and then the carpet is re-rolled for ease of further processing.

The material removed from the carpet is transferred through pipework through storage/settlement tanks to separate the sand and rubber from the other materials. At this stage there is a mix of sand, rubber and the inevitable "grass blades", the visual green of the artificial grass. These are then passed through vibrating screens to remove the bulk of the water then passes into storage bins for further processing.



Report completed by Mrs. Linda Ridley

TEL: 07447 159 101

E: info@astroturf-recycling.co.uk

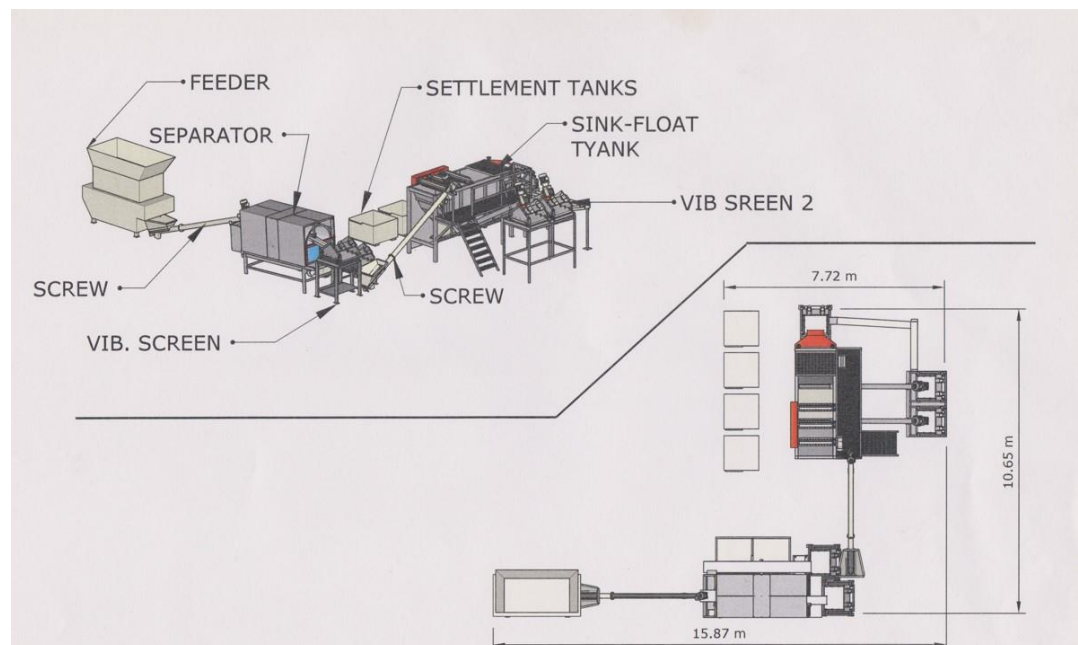
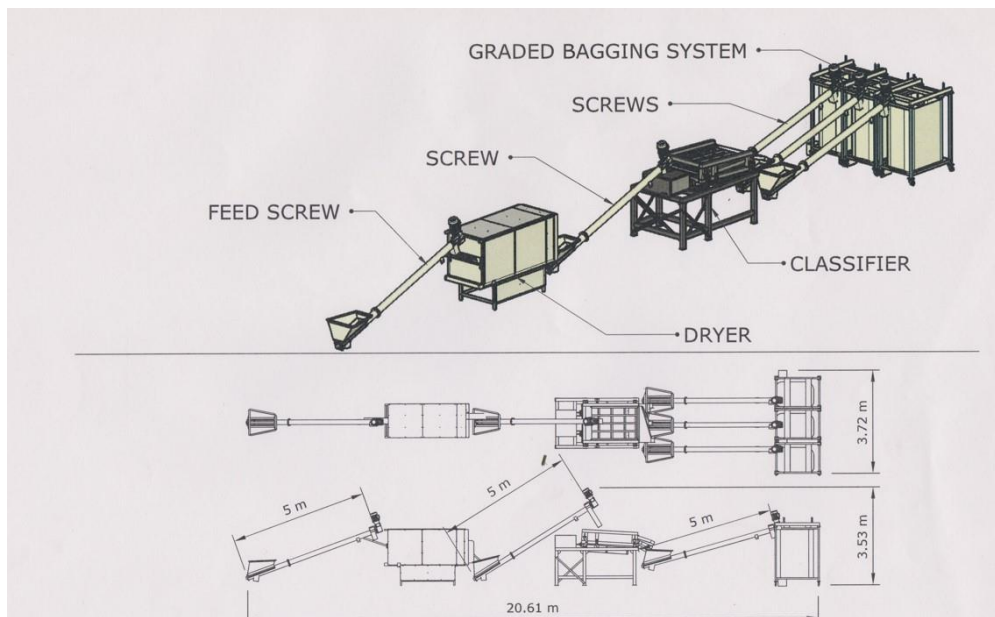
W: www.astroturf-recycling.co.uk

Astroturf Recycling Ltd

STAGE 2.

At this stage the mix of Silica sand, SBR rubber and “grass blades” is fed into a separation system during which the materials get a second wash. After this process the Silica sand is clean and fully separated from the SBR rubber and “grass blades” it can then go for drying and grading. This is a clean and reusable product, saving the need to put “new” Silica sand down onto new pitches.

The mix of SBR rubber and “grass blade” is passed through a sink float tank, where the “grass blade” is separated from the SBR rubber. The clean SBR rubber is then processed for dying and grading, once again this can be reused as the sand.



Report completed by Mrs. Linda Ridley

TEL: 07447 159 101

E: info@astroturf-recycling.co.uk

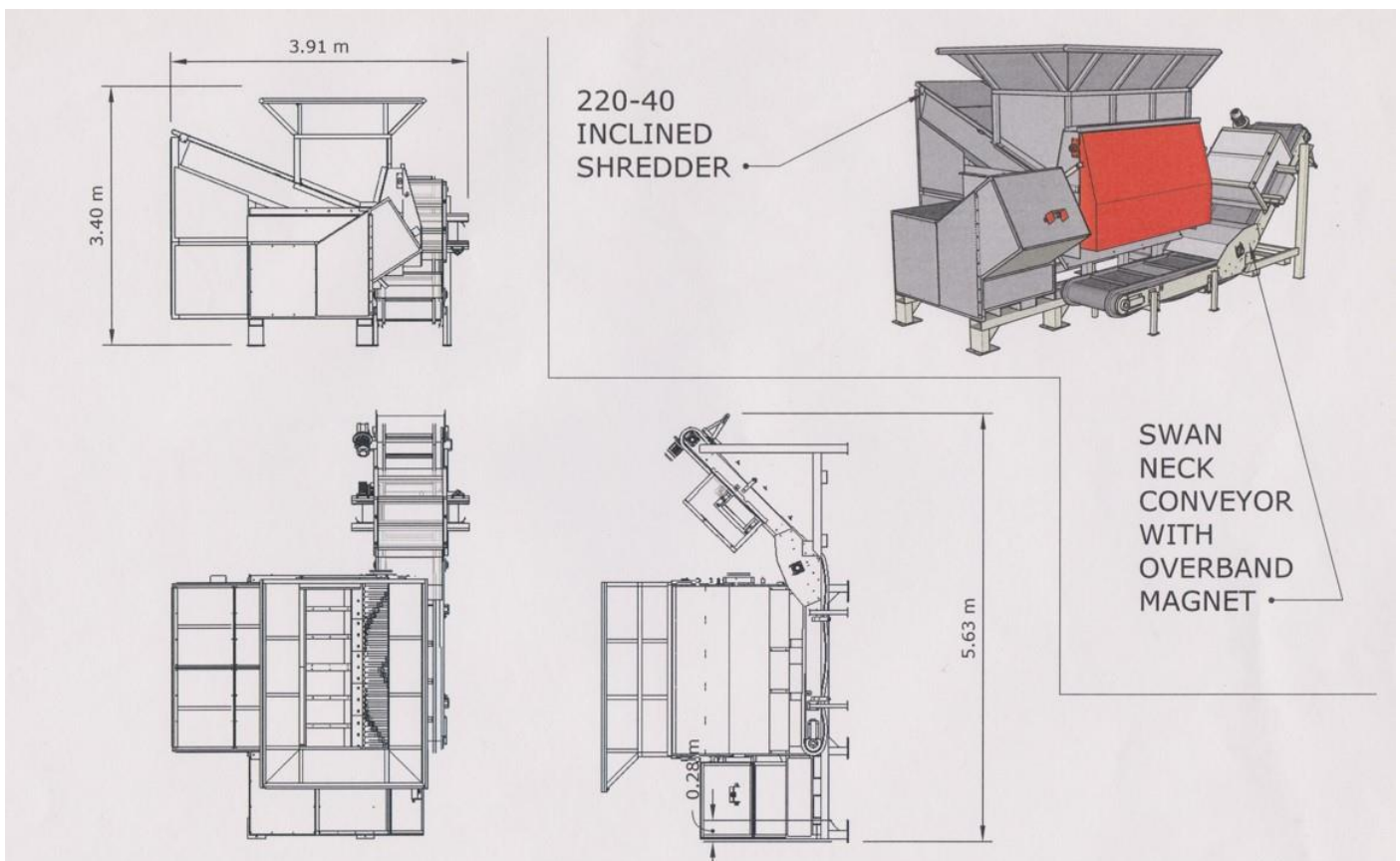
W: www.astroturf-recycling.co.uk

Astroturf Recycling Ltd

STAGE 3

The re-rolled carpet is then passed through the shredder to break the material down to approx. 20mm dia pieces. An over-band magnet on the outfeed side of the shredder removes any metal debris that may have been in the artificial grass, as this product is now clean and clear of any debris it can then be bagged up for further processing into boards.

With our recycling system, the used artificial grass is not a waste product as many other recyclers state it is, it is made into kick boards for newly laid pitches, clean Silica sand and clean SBR rubber to be used on re-laid pitches.



Astroturf Recycling Ltd

STAGE 4.

The clean shredded “grass” is bagged and sent for processing into plastic boards. These boards are made using recycled mixed waste material PE PPE & Artificial grass in manufacturing there will always account for variation.



These boards are an alternative to the plywood sheet, and is made from 100% recycled plastics. It is designed to be a long term, environmentally friendly replacement for traditional timber sheets.

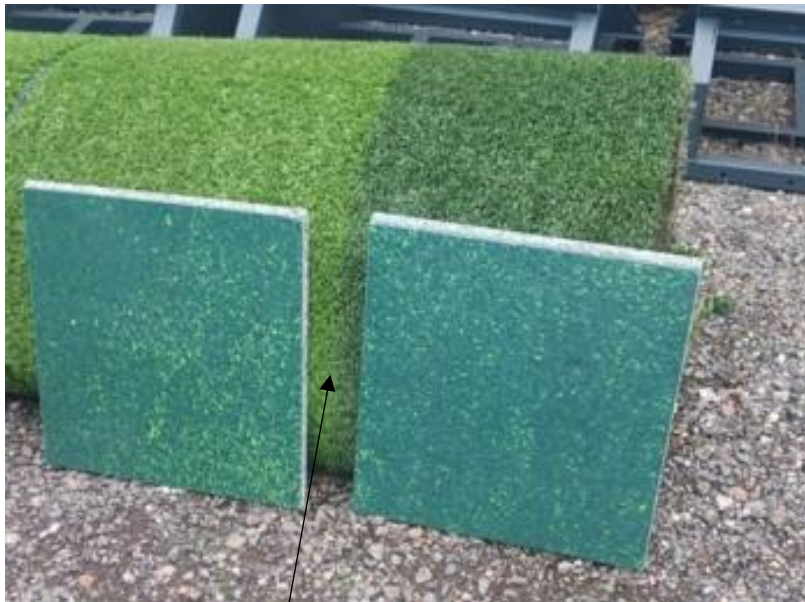
Waste plastics, PE PPE and artificial grass are pulverized before being placed into a mould to produce a full 2400mm x 1200mm sheet.



Report completed by Mrs. Linda Ridley
TEL: 07447 159 101
E: info@astroturf-recycling.co.uk
W: www.astroturf-recycling.co.uk

Astroturf Recycling Ltd

These 2400 mm x 1200 mm sheets are then cut down to 2 x 500mm sheets and 1 x 200mm sheet, which will be used as kick boards to the perimeter of newly laid artificial grass football pitches.



From rolls of artificial grass to kick boards.



These sheets can be fully recycled at end of life meaning that they can be repurposed over and over again.

These plastic kick boards are tough and durable, rot and weather proof, and water resistant. They are also chew resistant and non-toxic to animals. Requiring little or no maintenance,

Report completed by Mrs. Linda Ridley

TEL: 07447 159 101

E: info@astroturf-recycling.co.uk

W: www.astroturf-recycling.co.uk