SHINGLES PULVERIZATION DATA-SHEET



Shingles Pre-Pulverization



WE LIBERATE THE GRIT

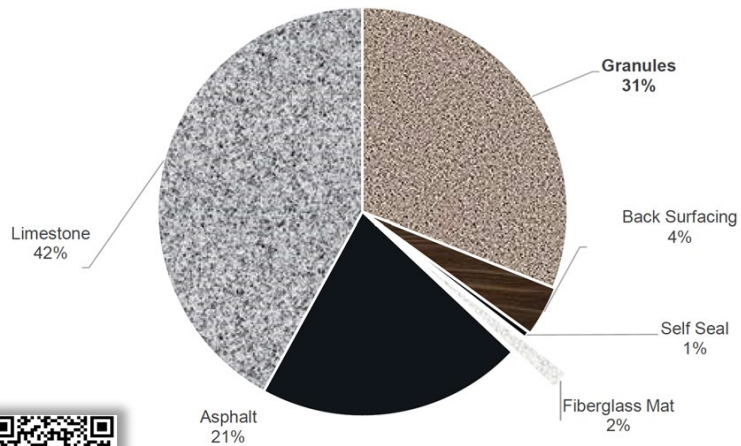
Our **TORXX Kinetic Pulverizer®** technology allows you to completely **Pulverize, Liberate and Separate** all of the original product components
So you can re-use and recycle manufacturing offcuts and rejects, completing the circular economy

Shingles Post-Pulverization



TORXX Kinetic Pulverizer®

technology brings circularity to production to avoid landfills



Material Test Summary:

10,000 pounds of old shingles was processed through the (TKP) **TORXX Kinetic Pulverizer®** technology. The goal of the material test was to demonstrate the following:

1. To validate the separation of the “grit” from the shingle.
2. To Pulverize, liberate and separate the used shingles into its key components for future recycling opportunities.
3. Collect, visually inspect and measure the output fractions of the shingles to confirm its recyclability and post-consumer marketability
4. To validate the target throughput performance of the TKP.

Material Test Methodology:

Samples of the processed shingle material was sieved to determine the component residues after being pulverized by the **TORXX Kinetic Pulverizer®** technology.



#8 mesh

Sieved sample of processed materials through #8 Mesh shows the larger “asphalt” pieces which have been liberated from the grit by the TKP. (left)



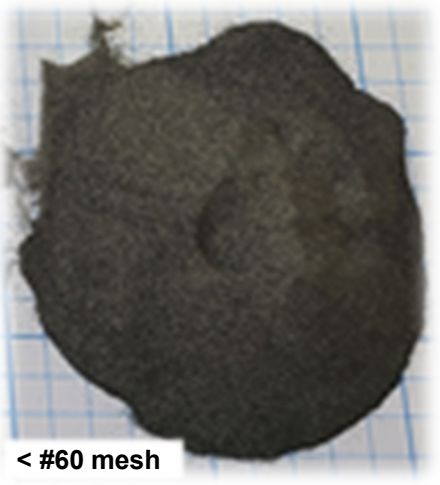
#30 mesh

Sieved sample of processed materials through #30 Mesh shows the majority of large “grit” that has been liberated by the TKP (left)



#60 mesh

Sieved sample of processed materials through #60 Mesh shows the majority of the smaller “grit” that has been liberated by the TKP.



< #60 mesh

Sieved sample of processed materials through greater than #60 Mesh shows the majority of shingle “grit” that has been liberated by the TKP.