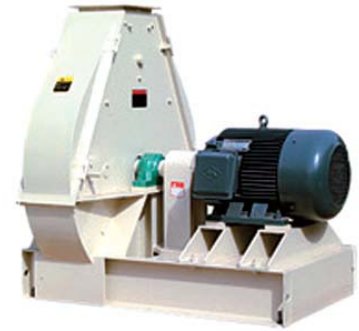


Hammer Mills work on the principle that most materials will crush or pulverize upon impact using a three step operation. This operation can be very noisy and loud.

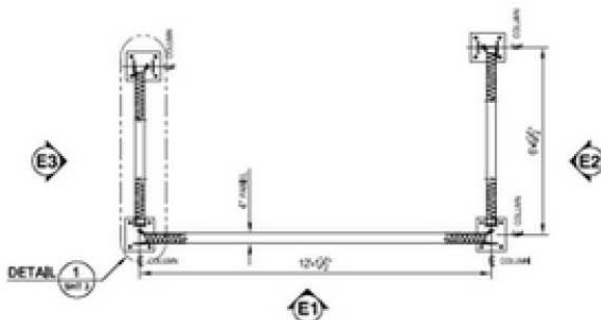
1. Material is fed into the mill's chamber typically by gravity.
2. The material is struck by ganged hammers (rectangular pieces of hardened steel) which are attached to a shaft which rotates at high speed inside the chamber. The material is crushed or shattered by the repeated noisy hammer impacts, collisions with the walls of the grinding chamber (which can create outdoor environmental noise at the property line), as well as particle on particle impacts.
3. Perforated metal screens, or bar grates covering the discharge opening of the mill retains coarse materials for further grinding while allowing the properly sized materials to pass as finished product.



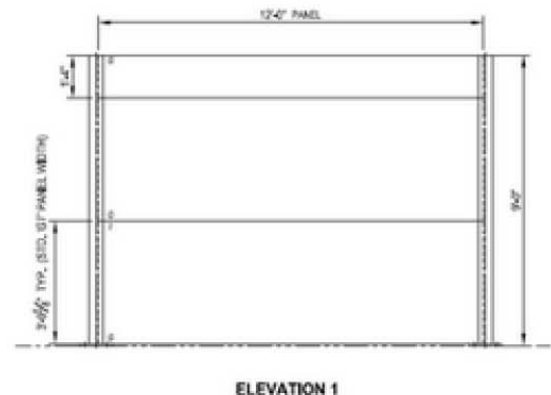
We suggest using acoustic steel sound panels to help abate the noise from a Hammer Mill. Either a sound wall or a full sound enclosure can be engineered around the high decibel Hammer Mill. This acoustic noise control approach can help lower the noise levels at the property line caused by this noisy grinder machine.



*Sound wall used to control outdoor noise*



*Example of outside sound wall*



*Elevation of sound barrier*