

HO Structure Kit GREATLAND SUGAR REFINING

933-3092

Thanks for purchasing this Walthers Cornerstone Series® kit. All parts are made of styrene plastic, so use compatible glue and paint to assemble your model. Please take a few minutes to read the instructions and study the drawings before starting construction.

From a first cup of coffee to the last bite of dessert, the average American will eat 64 pounds of sugar thisyear! Both sugar cane and sugar beets are used to produce refined sugar, and railroads still play a role in moving beets, which are time and temperature-sensitive. When farmers loaded directly into waiting cars, anything that rolled was used including ore jennies, boxcars, reefers and stock cars! To speed the work, trackside loading ramps, which limited the traffic to open hoppers and gondolas were later introduced. Once the factory started production, beets from hundreds of miles away arrived by the trainload and the factory ran nonstop.

While transportation has changed (trucks unload into mobile, mechanical pilers that create mountains of beets near conveyors.), the refining process is much the same. Beets are cut into French-fry sized strips to extract raw juice in a hot water wash. This is pumped into carbonation tanks where CO2 bubbles through the mixture causing impurities to to settle to the bottom. The juice is filtered in a clarifier then boiled under vacuum to remove the water. When complete, the juice resembles pancake syrup. The thickened juice is filtered to remove any remaining impurities, then boiled again before heading into a centrifuges and spun rapidly producing both molasses and sugar. After being washed in clean, hot water to produce pure white crystals, the granules are dried andsorted by size from fine powder to large crystals.

Finished sugar was sold in 100-pound (45kg) bags, and shipped to customers in boxcars until the 1950s when covered hoppers and pneumatic handling systems took over at both sugar refiners and consuming industries.

Running around the clock, your new model can be the busiest place on your railroad and makes an ideal theme for operations in a limited space. See your dealer, the current Walthers HO Scale Model Railroad Reference Book or walthers.com for additional details to complete your scene.





