

116 E. Ave 37  
Los Angeles 31  
July 19-49

Dear Roy;

A few lines in answer to your latest letter.

I had a telephone conversation with Mr. Don Bailey who has charge of the refractories of Pacific Abrasive Co, which is the Carborundum Agency here; address 900 E. 9<sup>th</sup> St. L.A.

Silicon Carbide tubes are available in a large range of sizes up to 21" inside dia. Ordinary lengths are 12" to 24" long.

An example of sizes and prices are:

1" inside	2" outside	24" long	<del>4.59</del> 4.59
2" "	3" "	24" "	5.31
3" "	4" "	24" "	6.51

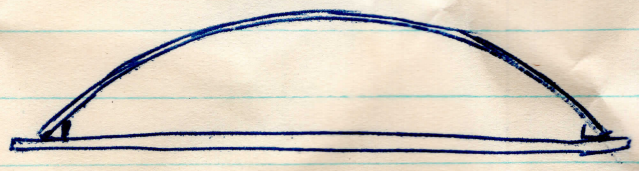
These are factory prices and delivery charge must be added. Very little stock is available on hand and most orders would have to come from the factory which would take about 6 weeks.

Refractory grade SiC has a number of degrees of fineness and would cost 13 to 14 cents per lb., and it weighs around 175 lbs per cu. ft. Air hardening binders are not very satisfactory.

Carborundum has a product they call Carbofrax No 30. It is made of about 60% SiC grain with clay and other materials as binder. This is in dry loose form & mixed with water and rammed into furnaces also to make tap hole plugs. It must be calcined to have strength. This material cost 14 cents per lb in 100 lb lots and 13 cents per lb in kegs which weigh about 220 lbs. This is all I could learn on binders.

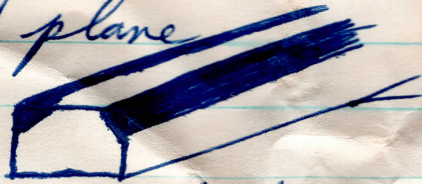
The Norton Co representative here said they had no tubes and as for SiC binders he kept beating around the bush saying he would have to have full furnace details before he could recommend anything.

In regards to that furnace form it seems very simple to make to me that is if I understand your drawings. as I see it the main part of the form can be made from a sheet of 1/4 or 3/8 plywood bent to the desired ~~curve~~ curve and held in position with cross strips thusly:

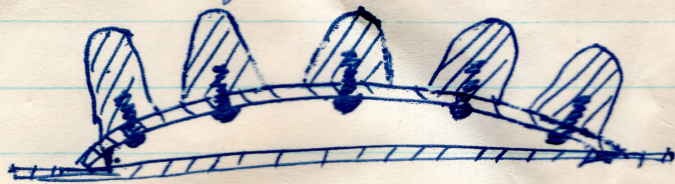


The teeth can be made from 4x6 with the corners roughed off with the bandsaw and finished with a hand plane.

The bandsaw job would be just straight ripping,



Except for the end pieces which have such a gentle curve. As I see it the mold would be like this. Join all parts with wood screws



with screw head on the outside and paint surfaces coming in contact with

the refractory and even put a light coat of grease on parts to prevent sticking. It would cost me more to ship this mold to you than the cost of the wood and you have more tools at hand to make it than I. You could make a full size mold for less than I could a portion of it. And I am not joking when I say I am short on funds. I am having to stay home with Janie today as she is sick abed, with the flu I think, and that is another days wages lost. Between you, Janie, and the Church I am in a slight squeeze.

As ever Edward