Charcoal Kilns

ADVANTAGES OF CORRUGATED STEEL KILNS

The use of Armco Corrugated Steel Charcoal Kilns in today's market will provide charcoal manufacturers with the following essentials:

- Strength;
- Long service life;
- Ease of handling and installation;
- Economy;
- Versatility.

1. Strength

The use of Armco Corrugated Steel has shed a new light on the strength of charcoal kilns during charcoal manufacture. It will no longer be necessary to halt production for repairs to kilns whilst they are being loaded before firing. Gone are the days where chipping, melting, cracking and crumbling played a part in the delay of charcoal manufacturing.

2. Longer Service Life

Temperatures in excess of 600° C (112° F) have very little effect on the service life of Armco Corrugated Steel Charcoal Kilns. Currently kilns have been in operation for periods of ±36 months with no visible defects excluding the bottom 450 mm of these kilns.

This is due to the fact that there is acetic acid gas given off which condensates on the sides of the kiln and then runs down to the bottom. There it begins its slow corroding process. This can be retarded by neutralising the acetic acid with chalk or lime. Should these bottom plates corrode completely, they alone can be replaced. It is also advisable to put extra plates around the bottom of the kiln on the inside. These extra plates will then corrode first, thus saving the actual plates on the kiln.

3. Ease Of Handling & Installation

Assembly of Armco Corrugated Steel Charcoal Kilns is both time and cost saving. There is no need for skilled labour in the installation of structures of this kind.

Installation is a matter of bolting a number of marked plates together with Armco high tensile bolts and nuts. All kilns are supplied with accurate assembly drawings.

4. Versatility

Armco Corrugated Steel Charcoal Kilns can either be used as totally portable or permanent structures. Should the kiln need to be moved, the bolts can be removed, the plates dismantled and the site relocated.

5. Economy

There are large cost savings in comparison with conventional methods:

- Initial supply cost;
- Saving on installation time;
- Saving on installation cost;
- Cooling cycle is quicker, therefore more burns possible;
- No breakages;
- Less mass to handle and economy of transport;
- Savings on supervision;
- Life of kilns in excess of 36 months.

6. Acceptance In Many Markets

Corrugated steel structures are found on farms, under highways, country roads, city streets, railways, down mines, in deserts and antarctic wastes. They serve as charcoal kilns, culverts, bridges, conduits, storm drains, underpasses, air ducts, protective shelters, sub drains and water storage.