



ALUMINUM
COMPANY OF AMERICA

New Kensington, Pa.

crate

8223

Ship to: Mr. Grote Reber
212 West Seminary Ave.
Wheaton, Ill.

Date 7-9-38
Dist. Order Chgo 58895
Gross

Cust's
Order

Description F

Tare
Net 315#

Wood chuck

EWR:LP 11:45

Dec. 17, 1938
212 W. Seminary Ave.
Wheaton, Illinois

Mr. J. N. Vail
Aluminum Co. of America.
520 N. Michigan Ave.
Chicago, Illinois,

Dear Sir:

Enclosed are two sketches of work I wish done. One is a cone with circular band around for mounting. The other is a small drum to fit into small end of cone. Both are to be constructed of $1/16$ " aluminum with all seams welded.

Some time ago I purchased a large drum from you with an O.D. $45\frac{7}{8}$ " \pm or - $1/8$ " and a channel ring with an I.D. $46\frac{1}{8}$ " \pm or - $1/8$ " to slip over drum. The drum was mounted in this ring by means of clamping bands 4" above and below ring. This construction is very satisfactory. The above cone is also to mount in this ring with same clamping bands. Since the tolerances are small it is of utmost importance that the ring around cone be made same O.D. as previous drum. According to my measure the channel ring is pretty close to 46" I.D. and the large drum $45\frac{7}{8}$ " O.D. Consequently the ring around cone should be quite close to $45\frac{7}{8}$ " mean.

Since cone is to be held in channel ring by friction of clamping bands considerable radial pressure will be exerted on fins. The cover was indicated to prevent these fins from buckling. Please give me an opinion whether or not this cover is necessary as the entire arrangement is then rather

complicated. Two alternatives are possible, use only one circular plate at center of ring as indicated by dotted line without fins or else bend edges of each fin over about an inch to prevent buckling.

Please give me an estimate on the cost of one cone involving the best method of construction and two small drums. If you can do this work at a reasonable price I will probably have more of similar type later.

Yours truly,

Grote Reber