

# APPLICATION FOR APPROVAL and CERTIFICATE OF CONSTRUCTION

1 APPROVAL REQUESTED OF:  PRECEDENT      2 TYPE:  CONSTRUCTION       WELDED REPAIRS      3 AAR NO. A-958806-A  
 TANK CAR COMMITTEE       ALTERATION       OTHER      4 DATE: June 28, 1995  
 CONVERSION      5 APPLICANT'S NO. 40250  
6 APPLICANT: PROCOR LIMITED, 2001 SPEERS ROAD      7 TANK SPECIFICATION TC/DOT 111A100W6  
OAKVILLE, ONTARIO, CANADA L6J 5E1      8 STENCILLED SPEC. DOT 111A100W6  
9 REPORTING MARKS & CAR NUMBERS FMLX 15501 thru 15520 INCLUSIVE      10 NUMBER OF CARS 20

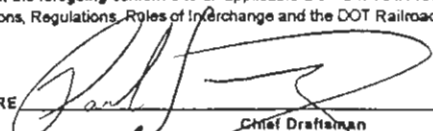
11	Initial Commodity	Food Grade Phosphoric Acid	12	Density, lb. per gallon	13.72
13	Full water capacity, gal.	15,500	14	Dome capacity or outage, gal.	310
15	Material type & grade - heads	ASTM A-240-316L	16	Material type & grade - shell	ASTM A-240-316L
17	Material thickness - heads, in.	7/16	18	Material thickness - shell, in.	7/16
19	Lining type	None	20	Inside diameter - center, in.	101 7/16
21	Inside diameter - end rings, in.	101 7/16	22	Head radius, main, in. (if not 2:1)	2:1 Ellipse
23	Test Pressure, psi	100	24	Insulation type	None
25	Insulation thickness, in.	-	26	Thermal conductivity, Btu-in/hr-ft <sup>2</sup> -F	-
27	Type and number of safety relief devices	1 - valve	28	Safety device start-to-discharge, psi	75
29	Safety device flow capacity, cfm req'd.	n/a	30	Safety device flow capacity, cfm, actual	1,113
31	Tank surface area, sq.ft.	1084	32	Underframe type	Stub sill
33	Center of gravity, loaded, in.	75	34	Est. light weight, lb.	52,141
35	AAR clearance diagram	B	36	Rail load limit, lb.	283,000
37	Truck capacity, tons	100	38	Head shields	N/A

NOTES: Orig. Cert \_\_\_\_\_  
Builder \_\_\_\_\_  
Date \_\_\_\_\_  
Former lading \_\_\_\_\_  
\* Non regulated commodities authorized in DOT Part 173 for which there are no other requirements and which are compatible with this design and class of car. Cars to be stencilled "PHOSPHORIC ACID".

The following drawings apply:		Drawing Number	The following prior approvals apply:	
			Drawing Number	Application/Certificate No.
39	General Arrangement	97993		Submitted
40	Arrangement, Tank	97994-B		Submitted
41	Reinforced Openings, Including Calculations	105257, 105258, 105259		Submitted
42	Anchorage Including Calculations	N/A		--
43	Fittings Arrangement	See 48		--
44	Manway Assembly	95712-B		Submitted
45	Protective Housing	91578		A-838808-B
46	Venting, Loading and Discharge Valves	98303		Submitted
47	Safety Relief Devices      MIDLAND	A-1079-F-Mo		B-917044
48	Heater Systems (Int./Ext.)	N/A		--
49	Gaging Device      Midland B-612	See Line 48		--
50	Bottom Outlet Valve	None		--
51	Repairs	--		--
52	Manway Cover	42844-C		A-928813
53	Calculations	--		--

REVISIONS: A - Line 43 was 98300.

APPLICATION BY Paul D. Young  
I certify that the foregoing conforms to all applicable DOT and AAR requirements, Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards.

SIGNATURE       TITLE Chief Draftsman  
APPROVAL - AAR Tank Car Committee      OCT 27 1995      P. D. Young, Secretary  
Date Approved      (Signature) on behalf of Tank Car Committee

CERTIFICATE: The cars enumerated below conform to the above approved description and to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards. Copy of this Certificate of Construction will be furnished to the owner and others as required by 49 CFR Part 179.5 before these cars are placed in service.

INITIALS AND CAR NUMBERS: COMPLETED 9/20/95  
FMLX15501 thru 15520 INCLUSIVE

Name P. D. Young      Date 12/15/95  
Title Chief Draftsman