



NOTE:
1. DIMENSIONS NOTED WITH (FRA) ARE PER RAILROAD SAFETY APPLIANCE STANDARDS 231.21 "TANK CARS WITHOUT UNDERFRAMES".
2. ALL OTHER DIMENSIONS ARE REFERENCE PER AAR MANUAL OF STANDARDS AND RECOMMENDED PRACTICES S-204.4, APPENDIX G1 PROPOSED RULES.

Level	Date	Approved	Description		
REVISIONS					
FreightCar America					
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Standard Tolerances (Unless Noted)					
Decimal Dimensions ± 0.063		Hole Diameters ± 0.031			
Diagonals 0.125 Max. Variation		Angles ± 1°			
Radii will be thickness of material		Tolerances are not accumulative			
Made By: JAG/CSW Date: 10-30-12 Ref Dwg: A103931-000					
Approved: JAG/CSW Do Not Scale Drawing Est. Wt: N/A					
ARRANGEMENT, SAFETY APPLIANCE					
Sheet 1 of 1	size	Drawing / Part Number	Rev.		
E	E	A108909-000			