



MATERIAL SPECIFICATION

E.R. 631 C

CA. 304 A

MAGNESIUM ALLOY SHEET (3% Al, 1% Zn).

1. This specification is satisfied by:

U.S. Federal

Specification

QQ-M-44 (latest issue).

CONDITION.

C.A.C. No.

A Annealed

CA.304-2

H24 Strain hardened and  
 partially annealed.

CA.304-3

ISSUE	DATE	WRITTEN.	APPROVED			CA. 304 A SUPERSEDES CA. 304
			C.A.C.	R.A.A.F.	A.I.D.	
ORIG.	Sep. 52	B.O.	H.E.A.	E.Kde C.		
REV.	Apr. 60	N.A.S.	E.H.	H.C.	L.T.	

FOR INFORMATION ONLY.

(Consult latest issue of endorsed specification for official purposes).

CHEMICAL COMPOSITION.

Aluminium	2.5 - 3.5 per cent.
Zinc	0.7 - 1.3 per cent.
Silicon	0.3 per cent.max.
Manganese	0.2 per cent.min.
Calcium	0.4 per cent.max.
Copper	0.05 per cent.max.
Nickel	0.005 per cent.max.
Iron	0.005 per cent.max.
Other Elements (total)	0.3 per cent.max.
Magnesium	Remainder.

MECHANICAL PROPERTIES.

Condition	Thickness	Ultimate Tensile Strength		0.2% Proof Stress		Elong. %
		p.s.i.	t.s.i.	p.s.i.	t.s.i.	
A - Annealed (CA. 304-2)	0.020-0.249	40,000 max.	17.9 max.			12.0 min.
H24 (CA. 304-3)	0.020-0.249	39,000 min.	17.4 min.	29,000 min.	12.9 min.	4.0 min.

H24 - Strain hardened and partially annealed.