

AM 3 - 350

from Pechiney Rhenalu specification IS 5648

THICKNESS .......25 to 350 mm
CHEMINAL COMPOSITION ......2xxx ALLOY

### **MECHANICAL PROPERTIES**

		MINI. VALUES				TYPICAL VALUES						
	THICKNESS	UTS		0,2PS		Е	UTS		0,2PS		E	Hardness
	mm	MPa	ksi	MPa	ksi	%	MPa	ksi	MPa	ksi	%	HB*
	25 → 50,8	428	62	317	45	7	465	67	366	53	9	145
	50,8 → 76,2	428	62	310	44	6	465	67	366	53	9	145
	76,2 → 101,6	414	60	304	44	5	465	67	366	53	8	145
	101,6 → 127	407	59	297	43	5	460	66	365	52	7	140
	127 → 152,4	393	56	290	42	4	455	65	360	52	6	135
	152,4 → 203,2	380	55	280	40	2	420	60	330	47	4	125
	203,2 → 254	355	51	270	39	1	390	56	315	45	3	120
	254 → 305	320	46	240	34	0,5	360	52	310	44	2	110

UTS, 0,2PS, E: Value at 1/4 thickness, HB\*: ball 2.5 mm, 62.5 kg Indicative values

# **HEAT TREATMENT**

Plates are delivered after complete thermal treatment and internal stress relieving. No further thermal treatment is recommended.

### **INTERNAL STRESS RELIEVED**

Depending on thickness: - Stretching for thickness from 25 to 250 mm.

- Compression for thickness from 150 to 350 mm.

## PHYSICAL PROPERTIES

Specific gravity	2,84 kg/dm <sup>3</sup>	Modulus of elasticity	72400 MPa
Coef. of thermal expansion (0-100°C)	22,3.10 <sup>-6</sup> /°C	Modul. of compression	74400 MPa
Thermal conductivity (0-100 °C)	130 W/m.°C	Poisson's coefficient	0.33
Specific heat (0-100 °C)	920 J/kg.°C	Melting range	545 - 645°C

### **USAGE PROPERTIES**

Welding	Refilling(TIG)	Very good
Anodizing	Hard	Very good
Milling	Swarf breaking	Good
	Surface brightness	Good

### **DIMENSIONS**

Minimum and maximum lengths available depend on their cross section.

Our sales office will be pleased to advise on these limits.

The herewith table is to be used only as a guide.

A PAREN	Minimal Width	Maxim	al Width	Standard Width			
Thickness	Compressed plates	Stretched plates	Compressed plates	Stretched plates	Compressed plates		
mm	mm	mm	mm	mm	mm		
25,4		3050		1000 - 1500			
50,8		3050		1000 - 1500			
76,2	111 2 11	3050		1000 - 1500	1 2 1		
101,6		2400	141	1000 - 1500			
152,4		1700	1500	1000 - 1500	1500		
203,2		1500	1500	1250	1500		
254	800	1100	1450	1000	1450		
305	800	-	1450	1 1	1450		

Pechiney Rhenalu

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