



Technical Data

Road Tankers

Aluminium:

Hydro 5186 H111 - ELONGAL®
Approved by German TÜV with Werkstoffblatt 521

Chemical composition:

acc. AA

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ga	V	Ti	Al
max. 0.4	max. 0.4	max. 0.25	0.2 - 0.5	3.8 - 4.8	max. 0.15	max. 0.4	max. 0.4	-	-	max. 0.15	Rest

(values in weight %)

Mechanical properties:

Acc. VdTÜV Wstbl. 521

Minimum guaranteed:

tensile strength(Rm)	yield strength (R _{p0.2})	elongation(A ₅)	Rm x A5
MPa	MPa	%	
275	125	26	7,150

Thickness range:

4.5 – 10.0 mm

Thickness tolerance:

-0 / +0.35mm or +/- 0.18 mm

Width range:

1,000 – 2,600 mm
thickness > 8mm max. width 1600

Sheet length:

1,000 – 12,000 mm

Properties:

Specific weight: 2,680 kg / m³
Modulus of Elasticity: 71,000 MPa
Excellent weldability with TIG or MIG techniques
Excellent formability (min. bending radius up to 6mm thickness: 1 x t)
(t = thickness)