



## EXTRUDED ALUMINIUM PROFILE DATA SHEET

### ALLOY 6082-T6 TO EN755

#### MECHANICAL PROPERTIES

YIELD STRENGTH: 230Mpa

TENSILE STRENGTH: 280Mpa

#### PHYSICAL PROPERTIES

DENSITY 2,70KG/DM<sup>3</sup>

MODULUS OF ELASTICITY 70GPa

THERMAL CONDUCTIVITY 172W/m.c

COEFFICIENCY OF THERMAL EXPANSION  $23.1 \times 10^{-6}/^{\circ}\text{C}$

ELECTRICAL RESISTIVITY AT 20°C 44% IACS

MELTING RANGE 575°C - 650°C

#### COMPOSITION

Min. Max.

Si 0.70 1.30

Fe 0.50

Cu 0.10

Mn 0.40 1.00

Mg 0.60 1.20

Cr 0.25

Zn 0.20

Ti 0.10

Other Elements 0.05 each 0.15 Total



### **Product specification data sheet: NG extruded gutter**

#### **Materials:**

Aluminium profiles are extruded from aluminium alloy 6063 T5 and T6 complying with:  
BS1474 – BS EN 12020-2:2001 / BS EN 755-9:2001

#### **Paint finishes (Polyester Powder Coatings):**

Aluminium profiles can be dual colour polyester powder coated to BS6496.

AMS offers in house painting with the following paint suppliers:

Azko Nobel Interpon D,

Du Pont Alesta,

Beckers Powder

### **Product specification data sheet: NG extruded gutter**

#### **MANUFACTURER:**

ALU-CAST ENTERPRISES LTD

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**PRODUCT:** NG extruded gutter (3mtr length)

**PRODUCT CODE:** NG5/-

**MATERIAL:** Marine Grade Extruded Aluminium to BS EN755-9:2001 / BS EN 12020-2:2201.

Aluminium alloy 6063 to T5, T6 temper grade.

**GUAGE:** 2.0mm wall thickness

**SIZE:** 137.5mm width, 100mm depth

**CAPACITY:** 2.55 litres/sec (The flow capacity of ALU-CAST gutters is based on a rainfall rate of 75mm/hr, the gutter being laid nominally level. Our figures are based on an end outlet position.)

**FINISH:** Mill Finish or Polyester Powder Coated (BS EN12206-1: 2004) to selected RAL colour

**FIXING METHOD:** Extruded Fascia Brackets at maximum 1.0m centres.

2 no fixings, (No.5x50mm twin threaded stainless screw) per bracket

**JOINTING:** Internal joiner / wet seal jointing and sealed with recommended Low Modulus Sealant.

**ACCESSORIES:** Angles, Outlets, Stop Ends to be supplied by same Manufacturer.



### *Aqua-Flow* ALUMINIUM GUTTER RANGE

The Aqua-Flow range of extruded aluminium gutters are available in 3 profiles and 8 sizes. They are designed to provide flush fitting pipes with a modern, clean look. The range is ideally suited for projects seeking to have their rainwater system enhance the overall architectural design of the building.

#### **APPLICATION**

- Specifically designed for modern contemporary buildings seeking to have a robust rainwater discharge system with high aesthetic.
- Concealed jointing (internal joiner) and fixing with external fascia bracket or direct fix (Moulded OG Profile)
- A clean contemporary aesthetic.

#### **PERFORMANCE**

- Low maintenance, life expectancy of 40yrs
- Coefficient for thermal expansion – 0.000023degC
- Do not aid combustion
- Melting point approximately 660C

#### **INSTALLATION**

- Easy installation with snap fit internal joiners (Low Modulus Sealant)
- Bespoke brackets manufactured to suit design (Outlets, Angles, Stop Ends all manufactured to suit profiles)
- Faceted and True Radius Gutters sections available to design templates

#### **MATERIAL**

- Extruded Aluminium to BS EN755-2:2008. Aluminium alloy 6063 to T6
- temper grade
- Lightweight, durable and non-corrodible (under normal atmospheric conditions)
- 100% recyclable

#### **PROFILES/SIZES**

- Half Round – 125mm $\varnothing$ , 150mm $\varnothing$
- Moulded OG – 101x75mm, 125x100mm, 150x100mm



#### FINISHES

- Polyester Powder Coated Finish
- Full RAL colour ranges / Mill Finish