



Model	A55	A60	R	P	A	Lb	wPvc	wPp
CT60	13.02 m ² /m ³	11.37 m ² /m ³	1.67 cm	230 mm	3850 mm ²	60 mm +Th	61 kg/m ³	41 kg/m ³

Terminology and Calculations

A55 : Actual effective area for sedimentation of lamellae formed by 1 m³ lamella placed with an angle of 55 degrees.

A60 : Actual effective area for sedimentation of lamellae formed by 1 m³ lamella placed with an angle of 60 degrees.

R : The hydraulic radius (Hydraulic Radius) is obtained by dividing the wet area into the wet perimeter. It affects the Reynold number, which determines the flow character (laminar / turbulence) from the section. Whether the water is turbulent or laminar, it is measured by the Reynold number.

A : It is the wet AREA of a honeycomb shape cell of Lamella.

P : It is the wet PERIMETER of a honeycomb shape cell of Lamella.

wPvc : 1 m³ PVC lamella weight for CT60 model.

wPp : 1 m³ PP (PolyPropylene) lamella weight for CT60 model.

tPvc / tPp : Maximum working temperature of PVC and PP.

Calculation method of R: It is found by dividing A / P

A55 and A60 calculation method : The plate slope angle ranges between 55 ° and 60 °, but usually 60 ° is used.

The total area At = (A1 + A2 + A3 + AN) of inclined plates formed at the base is the projection area.

TA = Wx * LA (m² / m³), LA = N * LT * Cos.SA (m)

N: Number of sheets - pieces

Lamella and Hazen Speed- Lamella ve Hazen Hızı

$$V_h = Q_m / TA \quad V_h = 6 / 11.93 \quad V_h = 0.503 \text{ m/h}$$

Vh: Hazen Seed - Hazen Hızı (m/h)

Qm: Flow - Debi (m³/h)

TA : Total Active Area - Toplam Aktif Alan (m²)

Wx: Width - Genişlik

Lx: Length - Uzunluk

Hx: Height - Yükseklik

LT: Length of sheet - Lamella uzunluğu

SA : Slope Angle - Eğim Açısı

LA: LT * Cos SA * N

N: Number of sheets - Levha sayısı

TA: Total Aktive Area - Toplam Aktif Alan

TA = Wx * LA

for TA : Tubesettler.com - Lamella.net

