CT44 MODEL - SPECIFICATION

ARBIOL TUBE SETTLER
ARBIOL ARITMA INSAAT VE CEVRE TEKN. BIL. EGT. MUH. SAN.TIC. LTD. STI.
YukarıDudullu Mah. Bayrak Cad. No:30/88 Umraniye-Istanbul-Turkiye. TubeSettler.com

Model	A55	A60	R	P	A	Lb	wPvc	wPp
CT44	16.58 m²/m³	14.48 m²/m³	1.32 cm	180 mm	2370 mm²	44 mm +Th	85 kg/m³	66 kg/m³

Terminology and Calculations

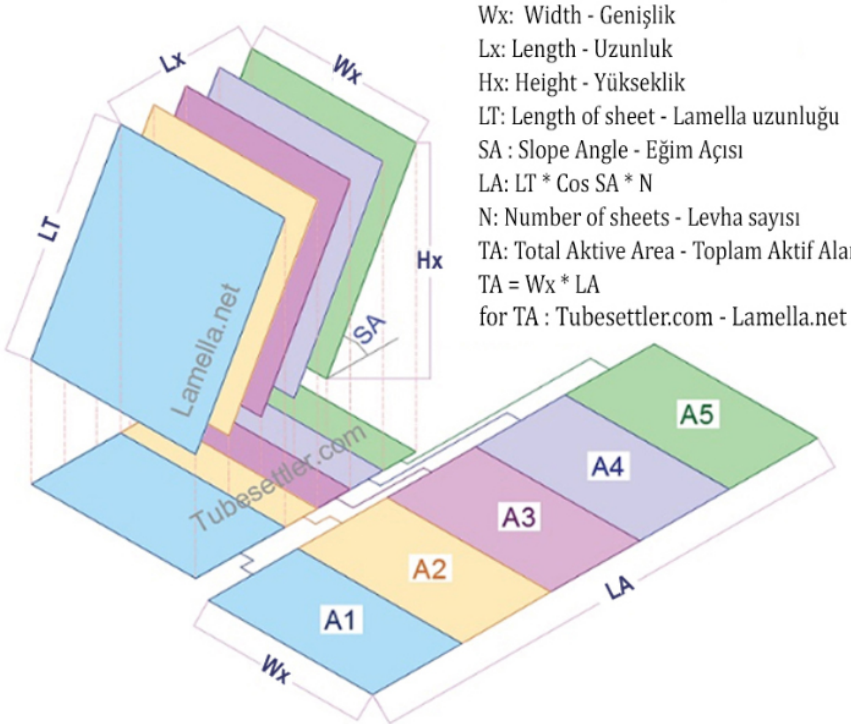
A55 : Actual effective area for sedimentation of lamellae formed by 1 m³ lamella placed with an angle of 55 degrees.
A60 : Actual effective area for sedimentation of lamellae formed by 1 m³ lamella placed with an angle of 60 degrees.
R : The hydraulic radius (Hydraulic Radius) is obtained by dividing 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 CT44 model.
wPp : 1 m³ PP (PolyPropylene) lamella weight for CT44 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

Vh= Qm/TA Vh=6/11.93 Vh= 0.503 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



CT44 | CT48 | CT52 | CT54 | CT55 | CT60 | CT68 | Sheet | Unit | Block | Framed