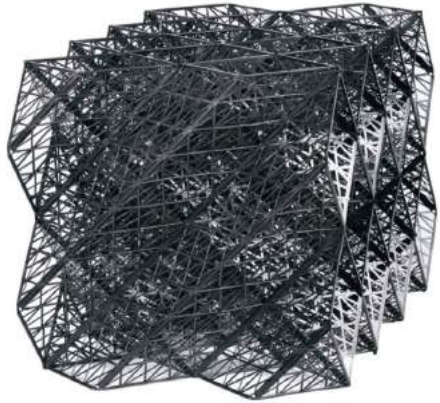
COOLING TOWER FILL - TYPE R80

The R80 splash fill is a hybrid (mix) type, adapted to the technological requirements of any wet cooling tower. The fill is very efficient, practically invulnerable at impurity clogging, resistant to the influence of physical and chemical factors and it's fireproof.

The R80 splash fill consists of individual elements with network appearance, from injected polypropylene (fireproof or non-fireproof), with optimized apertures and plies which generate both drops and films in its volume.
Packages with complex spatial structure that contain crossed inclined channels are formed by joining and assembling the constitutive elements with cable ties.



The cooling tower fill can be delivered as follows:
a) unassembled individual elements, method that allows a small transport volume, the assembly of the elements being done on site by the beneficiary, with cable ties,
b) Assembled in packages (modules), directly mounted in the cooling tower on an adequate support system.

Technical characteristics	
Cooling agent	Atmospheric air with or without industrial emissions
Water inlet temperature in the fill (^{0}C)	5 ... 80
Air outlet temperature from the fill (^{0}C)	-30 ... 80
Number of individual elements in assembled estate (piece/m^3)	61
Channels inclination	parallel or crossed
Average distance between individual elements, h (mm)	80 ± 1
Package height, H (mm)	450
Package length, L (mm)	800 or multiples of 80 mm
Package width, l (mm)	450
Fill weight on 1 m^3 in assembled estate (kg/m^3)	10,5
Mechanical resistance at compacting without deformation of the package, with the individual elements in vertical position (kN/m^2)	4,6
Spraying density, economically applied (m^3/m^{2}h)	3 ÷ 15
Heat and substance transfer surface (m^2/m^3)	pellicle: 21 / drops: 13...17