



ThermoTrade s.r.l.

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ThermoTrade s.r.l.



OUR COMPANY

ThermoTrade s.r.l. was born from an entrepreneurial concept of our present managers and owners with a twenty years experience in the field of plastics. They have succeeded in building a sound and competent manufacturing company operating throughout Italy as well as abroad.

The company works in the fields of cooling tower, scrubber, in the environmental sector and is focused on thermoformed plastic products (PVC, PP, PS, ABS, PVC+ABS, PET) such as fill media, drift eliminators, de-oil packs, humidifying pads, random fill, just to mention a few of our products.

ThermoTrade's main *objective* is to be at the leading edge in manufacturing these products by using innovative equipment and carefully selected materials with a particular attention to environmental compatibility.

ThermoTrade s.r.l. is constantly striving to offer the best service to our customers, through a proactive cooperation, transparency and constant attention to the satisfaction of our clients. To this end we provide a consulting service and a constant client support service, also after sale, capitalizing on the experience our staff has gained over the years. Furthermore we embrace the ideas of our clients, eager to find personalized solutions to their specific problems, providing consulting and quotes free of charge.

ThermoTrade s.r.l. is committed to fully satisfy the needs of its clients through professional competence, innovation and product quality.



www.thermotrade.it



OUR PLANTS



Thermoforming coil



Injection Printing



Thermoforming sheet

Extrusion

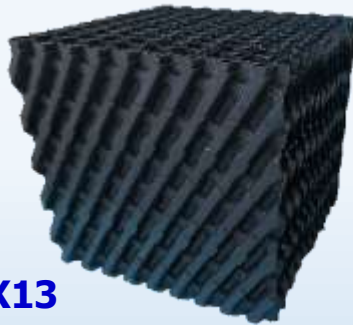
FILL MEDIA– mod. X

The fill media of ThermoTrade s.r.l. is composed of a series of thermoformed PVC sheets.

They are organized into blocks to form a surface of contact between air and water, in such a way as to maximize evaporative heat transfer.

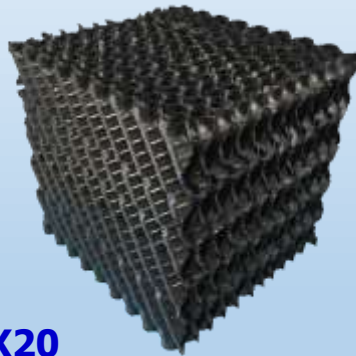
The fill media is used in various areas such as cooling towers, Scrubber and environmental sector.

The ThermoTrade s.r.l. manufactures Fill media in variety of X13, X20 and X27.



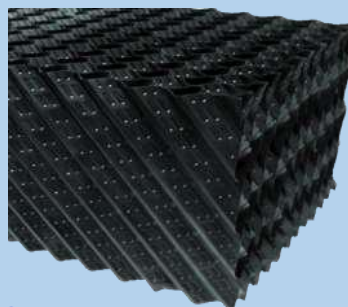
X13

Pack X13 is used in a particular way in the air conditioning sector, since the specific applications where the water is clean enough and where the volume of the tower must be minimized.



X20

Pack X20 is mainly used for industrial applications, specifically where the water is can be dirtier.



X27

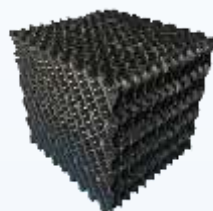
Pack X27 is used for heavy-duty industrial applications.



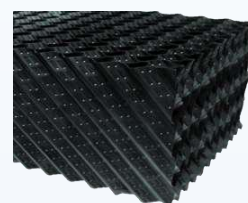
FILL MEDIA– mod. X



X13



X20



X27

Product	Material	Wave height	Dimension		
			Length	Width	Height
X13	PVC/PP	13 mm	1200 mm	From 300 mm	From 300 mm
			1800 mm	To 1000 mm	To 600 mm
			2400 mm		
X20	PVC/PP	20 mm	1200 mm	From 300 mm	From 300 mm
			1800 mm	To 1000 mm	To 600 mm
			2400 mm		
X27	PVC/PP	27 mm	1200 mm	From 300 mm	From 300 mm
			1800 mm	To 1000 mm	To 600 mm
			2400 mm		

Product	Max. working temp.	Min. load of water	Exchange surface	Index of emptiness	Thickness before thermoforming
X13	55°-60°	18,2	240 m ² /m ³	96%	220 μ
X 20	55°-60°	15,1	145 m ² /m ³	97%	260 μ
X 27	55°-60°	13,2	114 m ² /m ³	97%	450 μ

*For outsized dimensions, which are not covered in the table, in contacting our offices we would be happy to meet your requests.
The packs X13, X20, X27 are provided both in sheets and in blocks.

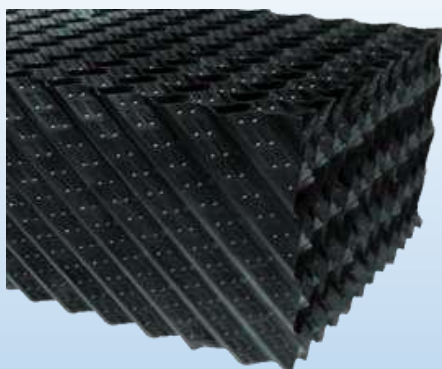


DE-OILING FILTERS– mod. DIS

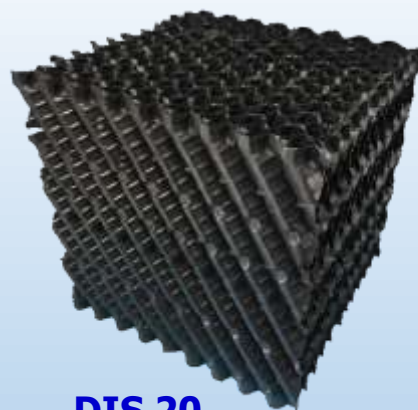
De-oiling filters of ThermoTrade s.r.l. are used in pre-treatment plants in wastewater and storm and incorporated as hydrocarbon separation filters.

The conformation of the packs marked by 60° internal angle of "fins", which make it possible to accelerate the process of stratification for severity of various substances; the packs, for example are used in the first rain tanks or wells service station.

Packs of ThermoTrade s.r.l. are also tailor made and shaped on request, so as to adapt them to the concrete tanks and sewage wells and reservoirs for de-oiling separation systems.



DIS13



DIS 20

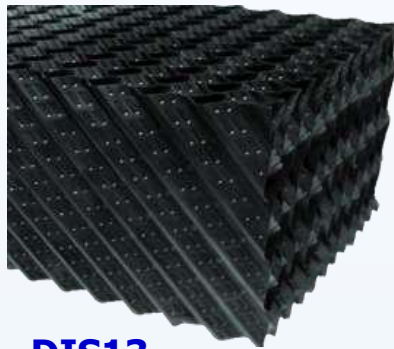
The packs are also assembled with accessories such as:

- Containment or lifting Frames in stainless steel AISI 304 and 316L stainless steel galvanized steel.
- Brackets or supports for wall anchor profiles.

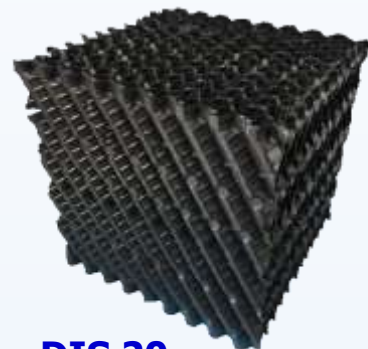




DE-OILING FILTERS – mod. DIS



DIS13



DIS 20

Product	Material	Wave height	Dimension		
			Length	Width	Height
DIS13	PVC	13 mm	1200 mm	From 300 mm	From 300 mm
			1800 mm	To 1000 mm	To 600 mm
			2400 mm		
DIS20	PVC	20 mm	1200 mm	From 300 mm	From 300 mm
			1800 mm	To 1000 mm	To 600 mm
			2400 mm		

Product	Operating temp. Max	Projected surface	Thickness before thermoforming
DIS13	55°-60°	80 m ² /m ³	220 μ
DIS20	55°-60°	48 m ² /m ³	260 μ

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The packs DIS 13, DIS 20 are provided both in sheets and in blocks.

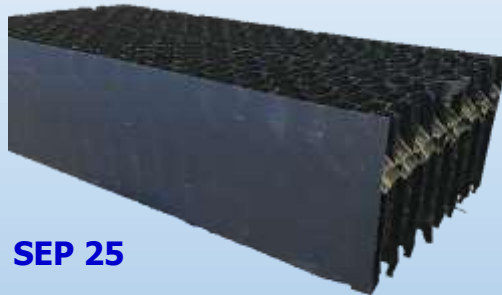
DRIFT ELIMINATOR FOR VERT. FLOW – mod. SEP

The Drift eliminator of vertical flow of ThermoTrade s.r.l. is used in the separation of water droplets in the air flow.

The ThermoTrade s.r.l manufactures Drift eliminator for vertical flow in variety of: SEP20, SEP25 e SEP MIST.



SEP 20



SEP 25



SEP MIST

The Drift eliminator are designed for flow-induced evaporative towers, where the geometry is between two, three, four directions of flow changes:

- Cooling towers
- Evaporative tower
- Scrubbers
- Air treatment units

DRIFT ELIMINATOR FOR VERT. FLOW – mod. SEP



SEP20



SEP25



SEP MIST

Product	Material	Wave height	Dimension		
			Length	Width	Height
SEP20	PVC	20 mm	1200 mm	From 300 mm	From 130 mm
			1800 mm 2400 mm	To 1000 mm	To 260 mm
SEP25	PVC	25 mm	1200 mm	From 300 mm	From 130 mm
			1800 mm 2400 mm	To 1000 mm	To 260 mm
SEP MIST	PVC	16 mm	1200 mm	From 300 mm	Form 140 mm
			1800 mm 2400 mm	To 1000 mm	To 280 mm

Product	Operating temp. Max	Max . Air speed	Max . Distance support	Thickness before thermoforming
SEP20	55°	4,5 m/s	1200 mm	500 μ
SEP25	55°	4,5 m/s	1200 mm	500 μ
SEP MIST	55°	4,5 m/s	1200 mm	400 μ

*For outsized dimensions, which are not covered in the table, in contacting our offices we would be happy to meet your requests.

DRIFT ELIMINATOR FOR HORIZ. FLOW— mod. FDO

The Drift eliminator for horizontal Flow of ThermoTrade s.r.l. are manufactured using extrusion technique with high-quality propylene, mixed with a fair amount of talc.

The Drift eliminator are suitable for vertical installation in a horizontal air flow with air speed from 1-6 m/sec and assembled with standard step from 25/33 mm.

The Drift eliminator can be made of PP and PVC; they can also be assembled inside in stainless steel frames, galvanized steel, aluminum container which gives a remarkable structure rigidity to the structure.

The ThermoTrade s.r.l. manufactures Drift eliminator for horizontal flow in variety of: FDO-01, FDO-02, FDO-03, FDO-04, FDO-05.



FDO-01



FDO-02



FDO-03



FDO-04



FDO-05



DRIFT ELIMINATOR FOR HORIZ. FLOW— mod. FDO



FDO-01



FDO-02



FDO-03



FDO-04



FDO-05 MODULAR

Product	Material	Profile width	Standard profile Length
FDO-01	PVC 55°	170 mm	6020 mm
	PP 90°		
FDO-02	PVC 90°	150 mm	6020 mm
FDO-03	PVC 90°	101 mm	6020 mm
FDO-04	PVC 55°	104 mm	6020 mm
	PP 90°		
FDO-05	Alluminium Galvanized sheet AISI304 12/10	Modular	

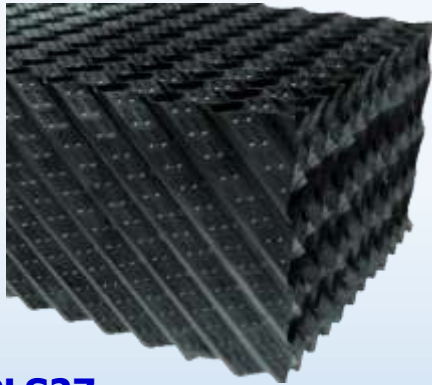
*The drift eliminator are available upon customer request cut to size and made of steel or galvanized steel frames.



LAMELLA PACKS– mod. PLS

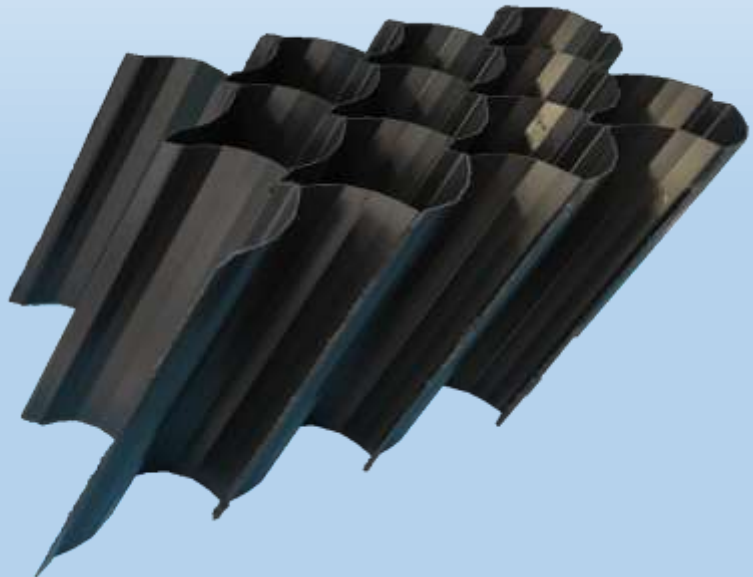
The Lamella packs of ThermoTrade s.r.l., with inclination of 55°/60°, reduce the volume of new plants by sedimentation and improves existing ones yield overloads or undersized. The packs are used particularly in the primary sedimentation tanks, secondary and tertiary, clarifier and flotation units.

The ThermoTrade s.r.l. manufactures Lamella packs in variety of PLS27, PLS50 e PLS80.



PLS27

Lamella packs of ThermoTrade s.r.l. can be tailor-made and be assembled in steel frames.



PLS50 – PLS80



LAMELLA PACKS – mod. PLS



PLS27



PLS50/PLS80

Product	Material	Inclination	Length	Dimension	Height
PLS27	PVC	60°	1500 mm	1000 mm	600 mm

	Sup . specs.	Blank index	Hydraulic radius	Diameter	Dim . Ducts	Thickness
PLS27	19 m ³ /m ²	97%	13 mm	52,6 mm	68x60 mm	450/700 μm

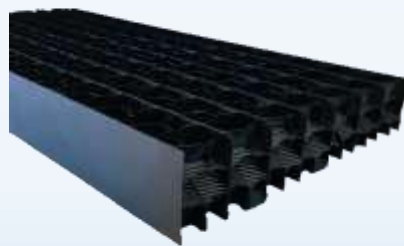
Product	Material	Operating temp.	Width	Inclination	No projections width	Height
PLS50	PS/AS	- 5°C/80°C	1000 mm	60°/55°	Step 50 mm	1000 mm
	(also for drinking water)					
PLS80	PS/AS	- 5°C/80°C	1000 mm	60°/55°	Step 77 mm	1000 mm
	(also for drinking water)					

Product	Sup . projected	Hydraulic radius	Equivalent diameter	Step Min .
PLS50	14,8 m ² /m ³	15 mm	60 mm	80mm
PLS80	9,89 m ² /m ³	14 mm	95 mm	88 mm

AIR INLET GRILLE– mod. LOUVER

The Air inlet grille of ThermoTrade s.r.l, is used in the evaporative towers and is a model of air inlet deflector.

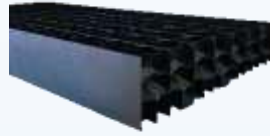
The LOUVER is 65 with strength and weight suitable for harshest situations for flow induced evaporative towers, where specifically its functions are:



LOUVER 65

- Prevent suked objects (ex. Leaves) from the enviroment in the basin.
- Eliminate the escape of water droplets ofthe plant in the area surrounding the tower.
- Straightein of the incoming airflow.
- Water saving.
- Maintain a state of darkness for the basin water, thus, bacterial overgrowth and algae growth.

AIR INLET GRILLE– mod. LOUVER



LOUVER 65

Product	Material	Wave height	Dimension		
			Length	Width	Height
LOUVER 65	PVC	25 mm	1800 mm	Da 600 mm	65mm

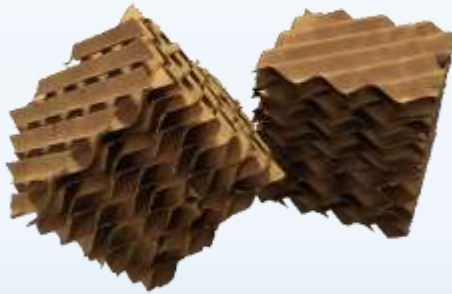
Product	Max. working temp.	Max . Air speed	Thickness before thermoforming
LOUVER 65	55°	4,5 m/s	500 μ

*For outsized dimensions, which are not covered in the table, in contacting our offices we would be happy to meet your requests.



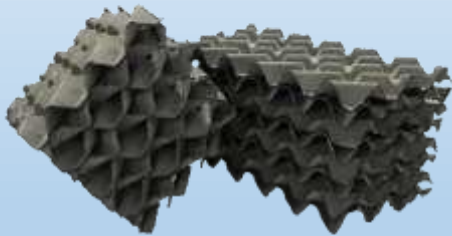
HUMIDIFYING PADS mod. CARTON FLOK E PLASTIC FLOK

Humidifying pads of ThermoTrade s.r.l. are used in air handling units for humidifying sections and for adiabatic conditioning systems, where they exploit the adiabatic phenomenon of evaporation to increase humidity rates inside rooms.



CARTON FLOK

- ❑ CARTON FLOK is made of cellulose sheets glued to each other with non-toxic glue. The high contact surface between air and water allows for a high degree of efficiency.



PLASTIC FLOK

- ❑ PLASTIC FLOK is made of PVC sheets coated with Rayon and glued together. The high contact surface between the air and the water allows a high degree of efficiency.

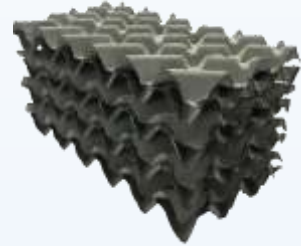




HUMIDIFYING PADS mod. CARTON FLOK E PLASTIC FLOK



CARTON FLOK



PLASTIC FLOK

Product	Thickness	Dimension	Dimension	
			Pcs	m
CARTON FLOK	100 mm	H 1000xB 600	11	6,6
		H 2000xB 600	11	13,2
CARTON FLOK	200 mm	H 1000x B 600	5	3,0
		H 2000x B 600	5	6,0

Product	Thickness	Dimension
PLASTIC FLOK	100 mm	H 1000xB 600
		H 2000xB 600
PLASTIC FLOK	150 mm	H 1000x B 600
		H 2000x B 600
PLASTIC FLOK	200 mm	H 1000x B 600
		H 1000x B 600

*For outsized dimensions, which are not covered in the table, in contacting our offices we would be happy to meet your requests.

RANDOM FILL - mod. PLASTIC RING

The Random fill of ThermoTrade s.r.l. are a type of products comprising polymeric materials which find many uses in energy and environment sector; our company manufactures Random fill in variety of: PLASTIC RING 26, PLASTIC RING 38, PLASTIC RING 50 e PLASTIC RING 90.

The process by which they obtained is injection molding, which allows to model three-dimensional objects.



PLASTIC RING

The Random fill are filling a product family united by production technology that lends itself to multiple areas of application:

- In the Scrubber, used as exchange surface in wet absorption.
- In stripping and gas abatement of fumes and odours.



PLASTIC RING





RANDOM FILL - mod. PLASTIC RING



PLASTIC RING

Product	Dimension		PZ/m ³	Blank index
	Inch	mm	N°	%
PLASTIC RING 26	1	26	45.600	93
PLASTIC RING 38	1½	38	15.000	94
PLASTIC RING 50	2	50	6.400	94
PLASTIC RING 90	3½	90	1.180	96

Product	Surface	Breeds	Weight		Kg/m ³	
	m ² /m ³	N°	PP	PP+V	PVDF	PVC
PLASTIC RING 26	245	4+4	87,8	96,8	180,0	160,0
PLASTIC RING 38	143	4+4	82,0	94,5	162,0	140,0
PLASTIC RING 50	114	4+4	60,0	71,0	119,0	130,0
PLASTIC RING 90	82	6+6	60,0	119,0	119,0	130,0

*For all sizes of PLASTIC RING you can realize them in: PP - PP + V - PVDF - PVC.

RANDOM FILL - mod. PLASTIC RING 170

Plastic Ring 170 of ThermoTrade s.r.l. is a random fill media in black isotactic polypropylene, which stands out first and foremost for its chemical and mechanical resistance.

It has excellent chemical and mechanical properties, with the material used and specific geometry allowing for remarkable resistance against compression.

Furthermore, its shape was designed to create trickling filters for medium/heavy loads, with the highest ratio of wet surface over volume.



Thanks to its high permeability and high hydraulic load capacity, Plastic Ring 170 minimizes the risk of clogging even when subject to significant specific, organic loads.

This Ring has been developed for the construction of trickling filters in the medium / high load.

PLASTIC RING 170

Product	Dimension	Blank index	Sup . Specific	Dry Weight	Operating weight
	mm	%	m ² /m ³	(kg/m ³)	(Kg/m ³)
PLASTIC RING 170	170	95	120	38	350

RANDOM FILL - mod. TTB - MBBR

I TTB-MBBR of ThermoTrade s.r.l., are filling bodies, carrier, suitable for systems to biomasses of suspended type for MBBR process.

This technology is the best solution to reduce the volume of a new system or to increase the purification capacity of an existing plant saving on costs and plant modifications.



The ThermoTrade s.r.l. manufactures Random fill in variety of TTB-01, TTB-02, TTB-05.

TTB - MBBR





RANDOM FILL - mod. TTB - MBBR



TTB - MBBR

Product	Dimension	Total specific surface	Specific surface useful	Density	T/C°	Porosity
	∅	m ² /m ³	m ² /m ³	g/cm ³		%
TTB01	25X4 mm	900	800	0,96	5° - 60°	>85
TTB02	12X9 mm	800	900	0,96	5° - 60°	>85
TTB05	25X12 mm	800	500	0,96	5° - 60°	>90



RANDOM FILL - mod. PLASTIC MOON

Random fill of ThermoTrade s.r.l., mod: PLASTIC MOON are a type of product consists of polymeric materials that find many uses in both the energy and environment in the chemical industry .

The ThermoTrade s.r.l manufactures Random fill PLASTIC MOON in variety of: PLASTIC MOON E PLASTIC MOON 15.



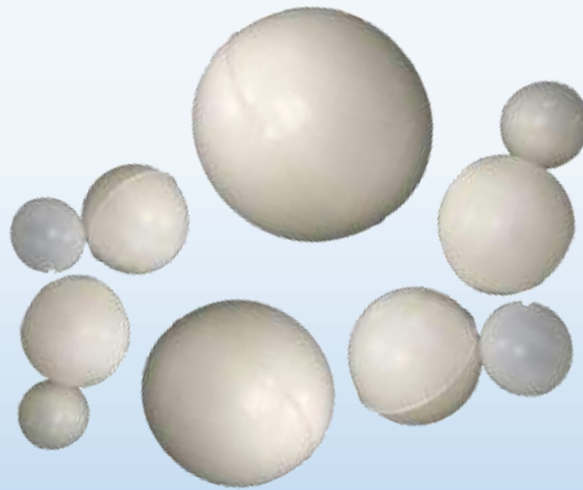
PLASTIC MOON

Product	Dimension	Material	Sup . specific.	Blank index	Dry Weight	Operating weight
	mm		m ² /m ³	%	Kg/m ³	Kg/m ³
PLASTIC MOON	70	PP	140	95	47	350

RANDOM FILL - mod. PLASTIC BALL

Random fill of ThermoTrade s.r.l., mod. PLASTIC BALL are a type of products very resistant and floats, of spherical hollow PHED.

The ThermoTrade s.r.l. manufactures Random fill PLASTIC BALL in variety of: PLASTIC BALL $\varnothing 25$, PLASTIC BALL $\varnothing 38$, PLASTIC BALL $\varnothing 47$ e PLASTIC BALL $\varnothing 70$.



PLASTIC BALL





RANDOM FILL - mod. PLASTIC BALL



PLASTIC BALL

Product	Dimension		PZ/m ³	Sup. specific	Material
	Inch	mm	N°	m ² /m ³	
PLASTIC BALL 25	1	ø25	72,000	From 82 to 141	PP
PLASTIC BALL 38	1½	ø38	25,000	From 82 to 141	PP
PLASTIC BALL 47	1¾	ø47	12,000	From 82 to 141	PP
PLASTIC BALL 70	2½	ø70	3,200	From 82 to 141	PP

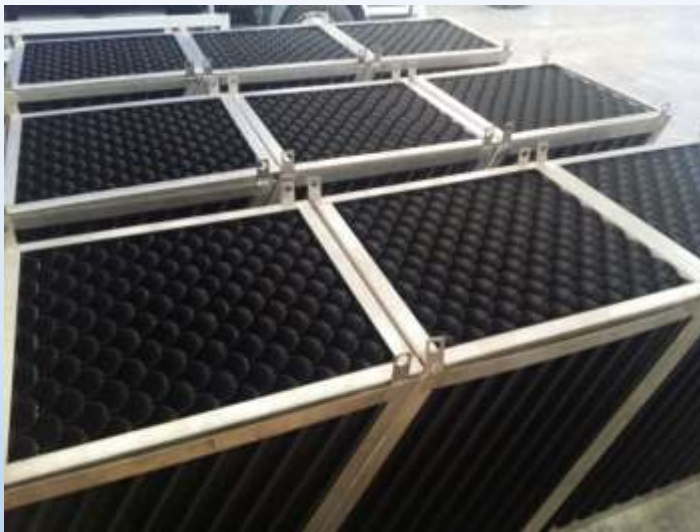
Product	Temp . Max operating	Temp.of melting	Density average	Absorpti on water	Dry Weight
			m ³		Kg/m ³
PLASTIC BALL 25	100°C	155°C	0,95	<0,05	108,0
PLASTIC BALL 38	100°C	155°C	0,95	<0,05	137,5
PLASTIC BALL 47	100°C	155°C	0,95	<0,05	86,00
PLASTIC BALL 70	100°C	155°C	0,95	<0,05	80,00



FRAMES AND ACCESSORIES



FRAME



FRAME



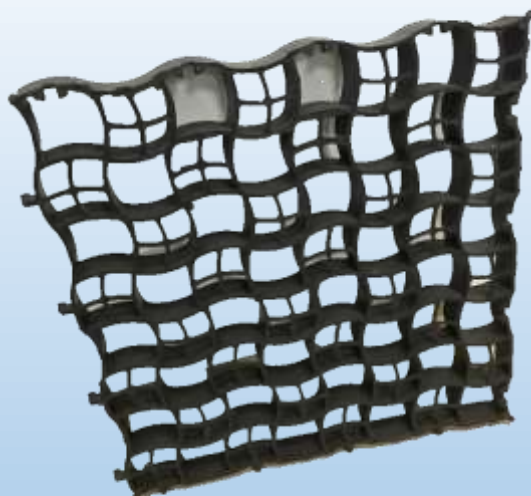
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FRAMES AND ACCESSORIES



NOZZLES



QUADGRILL 70

ThermoTrade s.r.l.



OUR COMPANY

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Innovation ...

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