



GLOBAL BUILDERS' SUPPLIES

www.gbspL.com

Gratings Catalogue

**Multigril & Unigril
Grids. Covers. Frames**



GLOBAL BUILDERS' SUPPLIES PTE LTD

Global Builders' Supplies Pte Ltd is a leading solution provider to high end building materials. The company is a sole distributor of First Plast series of drainage products from Italy since 1994. Manufactured to the highest standards First Plast products conform to national and international standards, having gained the ISO 9002 certification since 1995.

Working closely with project owners, developers, architects and consultants, we strive to provide practical and premium quality products and solutions at cost effective prices so that our valued customers can stay ahead of today's highly competitive business environment.



TEST REPORTS



TEST REPORT

Your Ref :
 Date : 1997-09-02
 Our Ref : T-18247-NPS/KSY/INARTI Page : 1 of 2
 (Please quote our ref. no. in reply)
 DID Fax :



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ACCELERATED WEATHERING TEST OF NYLON MULTIGRIL PLASTIC GRATING

Client : Global Builders' Supplies Pte Ltd
 224A Pasir Panjang Road
 Pasir Panjang Village
 Singapore 118585
 Attn : Ms Florence Chia

Background

One piece of MG 30500 Nylon multigril reinforced with fibreglass plastic grating with approximate dimensions of 14" x 12" were received on 1997-07-05 for accelerated weathering test. The samples submitted were moulded with bolts and nuts on each side, they could be joined fitted onto each other.

Test Report No. 719176545-MEC10-KSY
 dated 19 MAY 2010



PSS Singapore

Note: This report is issued subject to TUV SUD PSB's "Terms and Conditions Governing Technical Services". The terms and conditions governing the issue of this report are set out elsewhere within this report.

SUBJECT:

Flexural Load of Nylon Multigril Reinforced with Fibreglass Plastic Gratings

TESTED FOR:

Global Builders' Supplies Pte Ltd
 44 Kallang Place
 #05-03
 Singapore 339172

Attn: Ms Florence Chia

SAMPLE DESCRIPTION:

Two units of 650 mm x 550 mm grey of nylon multigril reinforced with fibreglass plastic grating test specimens (typical as shown in Figure 1) were submitted by Global Builders' Supplies Pte Ltd on 13 May 2010 for testing.

TEST METHOD: (AS SPECIFIED BY CLIENT)

Normal specimen dimensions : 650 mm x 550 mm
 Support span : 610 mm
 Crosshead speed : 8.96 mm/min
 No. of determinations : 2 units

TEST RESULTS:

Sample Description	Specimen No.	Flexural Load (kN)
Nylon Multigril Reinforced with Fibreglass Plastic Grating	1	34.6
	2	34.3

[Signature]
 Kong Siew Yong
 Associate Engineer

[Signature]
 Li Xiang
 Product Manager
 Polymer Products
 Mechanical Centre



Laboratory
 TUV SUD PSB Pte. Ltd.
 801 Science Park Drive
 Singapore 11021

Phone: +65 6885 3333
 Fax: +65 6776 8939
 Email: info@psb.psb.gov.sg
 www.psb.gov.sg

Regional Head Office:
 TUV SUD Asia Pacific Pte. Ltd.
 3 Science Park Drive, #04-00/05
 The Rail Station, Singapore 118232

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Singapore Productivity and Standards Board PSB Building 2 Bala Merah Central, Singapore 159835 Telephone: 2786666 Facsimile: 27866557 Telex: 03737

Page 1 of 3



SETSCO SERVICES PTE LTD

18 Taban Gardens Crescent
 Singapore 608225
 Tel: (65) 566 7777
 Telefax: (65) 566 7718

Your Ref: Our Ref: E 18115/NPS Date: 09/01/99
 (This Report is issued subject to the terms & conditions set out below) Page 1 of 2

Subject : Testing of PVC drain cover submitted by Global Builder's Supplies Pte Ltd on 06 January 1999.

Tested for : GLOBAL BUILDERS' SUPPLIES PTE LTD
 224A Pasir Panjang Road
 Pasir Panjang Village
 Singapore 118585
 Attn: Mr Alfred Gien

Date & Place of Test : 08 January 1999 at Setesco Laboratory

Method of Test : Compression Test
 The sample was placed on a frame and subjected to loading in a Universal Testing Machine until failure was observed.

Testing Conditions : Ambient Temperature : 23 ± 2 °C
 Relative Humidity : 50 ± 5%, unless otherwise stated.

Description of Sample : The following were received as follows:-

S/No.	Description	Qty
01	Light Series PVC Drain Cover (Code : UG 40 G)	01
02	Reinforced Series PVC Drain Cover (Code : UG 40 G)	01

Results : Refer to table attached.

[Signature]
 ELLEN NG (MS)
 Testing Officer

[Signature]
 YU KONG FOONG (MS)
 for Manager
 Mechanical Technology Dept.

E18115/08/PLT-01999a

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SETSCO SERVICES PTE LTD

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 Singapore 608225
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 Telefax: (65) 566 7718

Your Ref: - Our Ref: E 18347/NPS Date: 10/03/99
 (This Report is issued subject to the terms & conditions set out below) Page 1 of 2

Subject : Testing of PVC Antishock Grids and Cover submitted by Global Builders' Supplies Pte Ltd on 14 January 1999.

Tested for : GLOBAL BUILDERS' SUPPLIES PTE LTD
 224A Pasir Panjang Road
 Pasir Panjang Village
 Singapore 118585
 Attn: Ms Florence Chia

Date & Place of Test : 16 January - 08 March 1999 at Setesco Laboratory

Method of Test : Accelerated Weathering Test (Xenon Arc)
 Light source: Xenon burner (outdoor exposure : combination of six IR filter and one filter frame with UV filter).
 Average irradiance: 300 to 830 mW (1100 ± 200 W/m²)
 300 to 400 mm (10 ± 5 W/m²)
 290 to 300 mm (less than 1 W/m²)
 Black Panel Temperature: 45 ± 5 °C
 Air Temperature in Test Enclosure: 30 - 33 °C
 Relative Humidity in Test Enclosure: 70 - 90 %

Description of Sample : One(01) piece of 38 cm x 38 cm PVC Antishock Grids and Cover said to be Code Article UG40G was received.

Results : Refer to Table attached.

[Signature]
 ELLEN NG (Ms)
 Testing Officer

[Signature]
 YU KONG FOONG (Ms)
 for Manager
 Mechanical Technology Dept.

E18347/08/PLT-01999a

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CERTIFICATES
























EN ISO 9001:2008

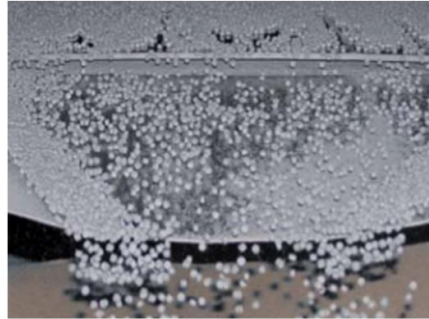


EN ISO 14001:2004



RAW MATERIAL

	SCORCHING SUN	INTENSE FROST	VIOLENT STORMS	ACID AND ALKALIS	NOT INFLAMMABLE	DIELECTRIC	EASY SET-UP	HIGH BREAKAGE RESISTANCE	NON TOXIC
POLYAMIDE									
PVC									
POLYPROPYLENE									



MECHANICAL & PHYSICAL CHARACTERISTICS AT 23°C

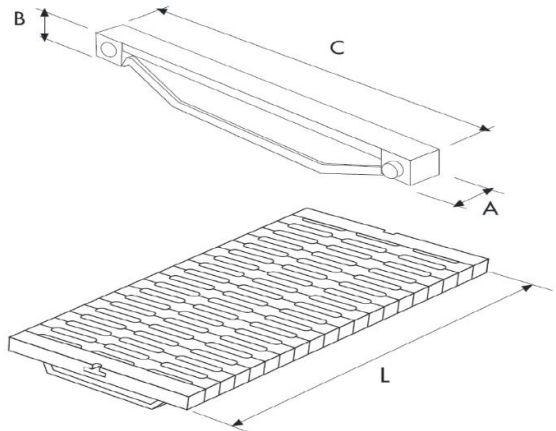
		TEST SYSTEM	UNIT OF MEASUREMENT	POLYAMIDE	PVC	POLYPROPYLENE
Mechanical Properties	Breaking Load	ISO 527	Kg./cm ²	440	440	440
	Unity Load at Yielding	ISO 527	Kg./cm ²	>360	>360	>360
	Modules of Elasticity at Traction	ISO 527	Kg./cm ²	34,000	34,000	34,000
	Elongation at Break	ISO 527	%	140	140	140
Physical Properties	Specific Weight	ISO 1183	Kg./dm ³	1,44	1,44	1,44
	Temperature of Softening	ISO 306	°C	82	82	82
	Coefficient of Thermal Expansion		mm/m °C	0,06 – 0,08	0,06 – 0,08	0,06 – 0,08

MULTIGRIL CHARACTERISTICS

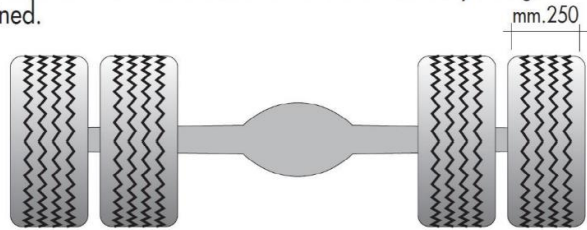


Model	A	B	C	L
MG13 – MC13	25	20	130	Sectional length for multiples of 25mm
MG20 – MC20	25	20	200	
MG30 – MC30	25	20	300	
MG40 – MC40	25	20	400	
MG65 – MC65	25	20	650	

COLOUR: GREY MATERIAL: POLYAMIDE



The technical breakage tests have been carried out in exasperated conditions, concentrating the load in the center of cross-piece (see method of Istituto Giordano's tests). While in reality the load of a wheel is distributed all over its trace. A better safety margin is obtained.



Full load tonnage 12 tons. per axis equivalent to 3 tons. per wheel

cross-pieces involved n. 10



DISTRIBUTED LOAD

DISTRIBUTED LOAD

CONCENTRATED LOAD

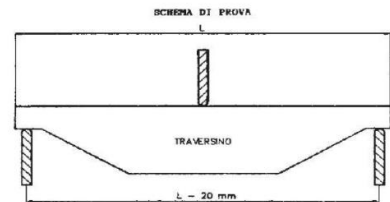
Technical tensile stress tests have been carried out in exasperated conditions, centring the load in the middle of the cross-piece (see GIORDANO INSTITUTE test), mean while distributing a wheel load all over its trace. The result consists in a further security margin.

ISTITUTO GIORDANO
LABORATORIO DI RICERCHE DI FISICA TECNICA s.p.a.

Via Rivani, 2 47041 BELLARIA (FO) Italy Tel. (0541) 345500 (7 linee) Fax (0541) 345511 Telex (0541) 345540

Ced. Fisc./Pat. No. 00548540408 C.C.I.A.A. 105/88 Imp. Reg. Soc. n. 1562 Cap. Soc. L. 100.000.000 It.

CERTIFICATO DI PROVA N. 43612/33265/91



Risultati della prova:

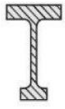
Campione	Dimensioni L (mm)	Codice commerciale	Carico di rottura (kgf)
1	130	TGR 1	1000
2	200	TGR 2	800
3	300	TGR 3	600
4	400	TGR 4	560
5	650	TGR 6	500

Note: //

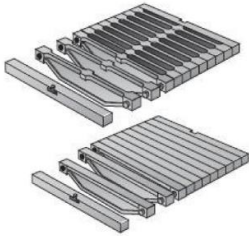
Il Direttore del Laboratorio (Dott. Ing. Giovanni Capitani)

Il Presidente o l'Amministratore Delegato

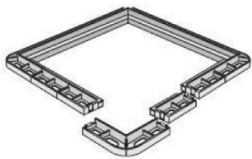
MULTIGRIL®



The computer designed **MULTIGRIL®** made from plastic material (Nylon reinforced with fiberglass) is the only pedestrian grill a H-beam structure able to withstand very heavy loads.



Moreover **MULTIGRIL®** presents another great innovation: **modularity**. This is obtained from the joint pins placed on bars connecting the parts thus creating a rather flexible structure better adaptable to the placing surfaces.



The **MULTIGRIL®** frame (exclusive because of its sectionalization) has been designed with two millimeters holes on the support area for air escape and allows the cement to fully fill in the part withstanding the load.

The Colours of Multigril

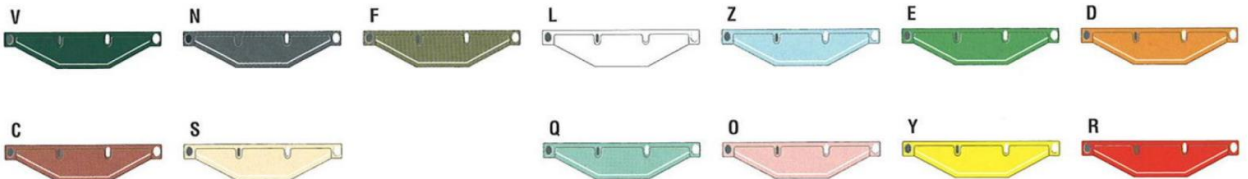


Grey



Brown

Besides it is foreseen a coloured range called Multil—Colour supplies in certain quantities only and with a higher price than brown and grey



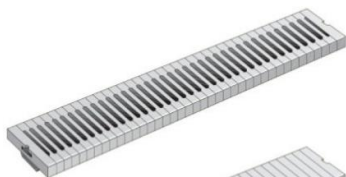
Supply Conditions for Multigril Multicolore

The minimum quantities to order change following the size of MULTIGRIL MULTICOLORE and are quantified in meters. Goods have to be withdrawn with a maximum tolerance of $\pm 10\%$ compared to the ordered quantity. The colours on the catalogue are merely approximate and the production can show different nuances due to press-forging. The frame is available only brown and grey. Minimum order of Multigril Multicolore in meters per item and size:

MULTIGRIL®

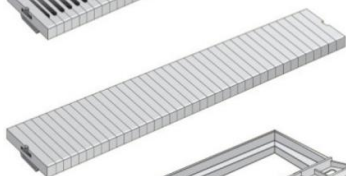
MG13999

Grid
Size: 130 x 1000 mm



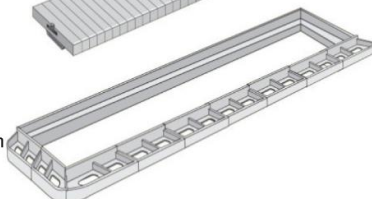
MC13999

Cover
Size: 130 x 1000 mm



MT13999

frame
Size: 130 x 1000 mm



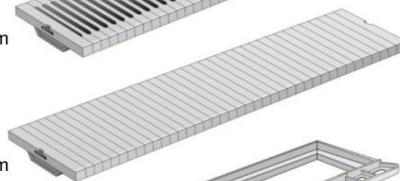
MG20999

Grid
Size: 200 x 1000 mm



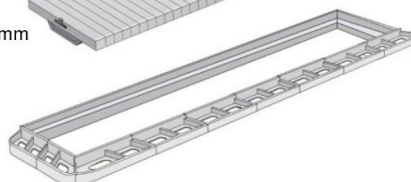
MC20999

Cover
Size: 200 x 1000 mm



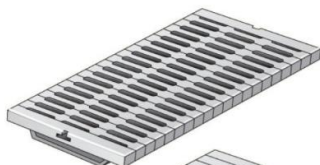
MT20999

frame
Size: 200 x 1000 mm



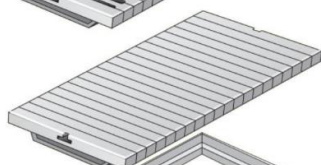
MG30500

Grid
Size: 300 x 500 mm



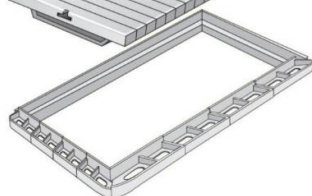
MC30500

Cover
Size: 300 x 500 mm



MT 30500

frame
Size: 300 x 500 mm



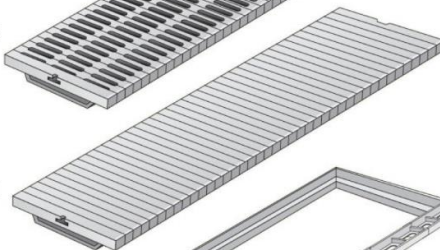
MG30999

Grid
Size: 300 x 1000 mm



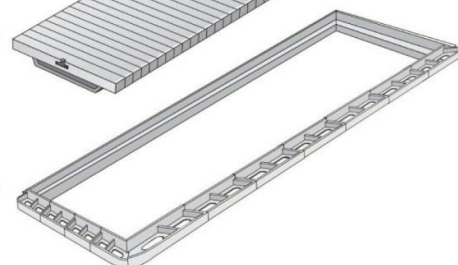
MC30999

Cover
Size: 300 x 1000 mm



MT30999

frame
Size: 300 x 1000 mm



MG40500

Grid
Size: 400 x 500 mm



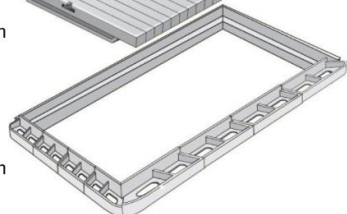
MC40500

Cover
Size: 400 x 500 mm



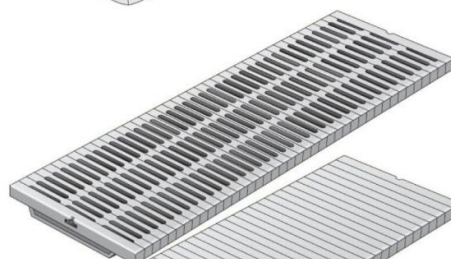
MT 40500

frame
Size: 400 x 500 mm



MG40999

Grid
Size: 400 x 1000 mm



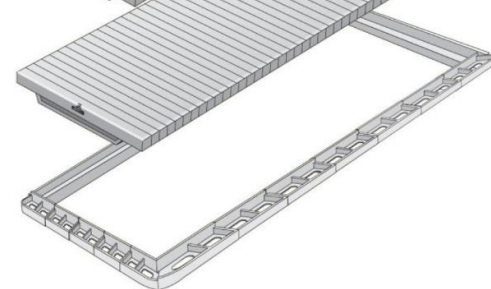
MC40999

Cover
Size: 400 x 1000 mm



MT40999

frame
Size: 400 x 1000 mm



MULTIGRIL®

MG65500

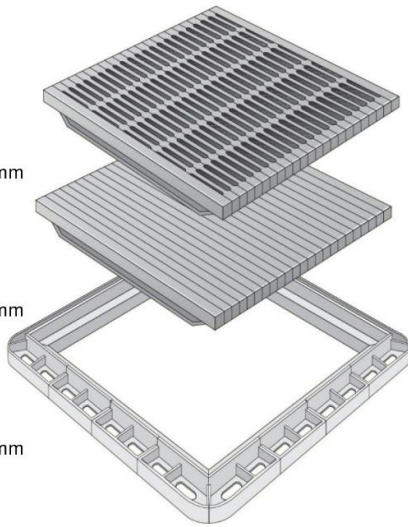
Grid
Size: 650 x 500 mm

MC65500

Cover
Size: 650 x 500 mm

MT 65500

Frame
Size: 650 x 500 mm



MG65999

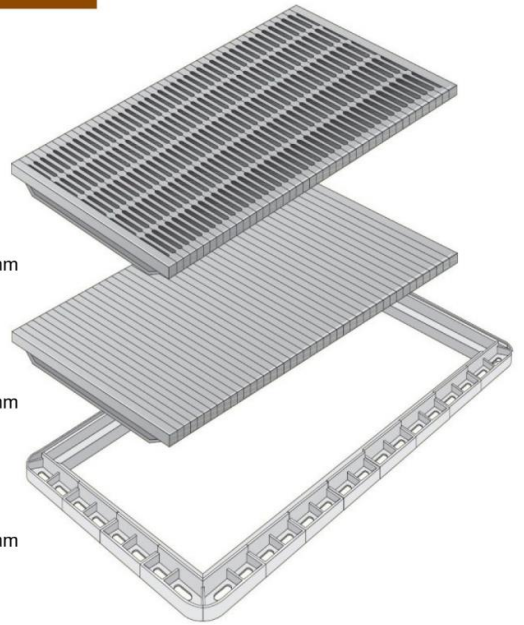
Grid
Size: 650 x 1000 mm

MC65999

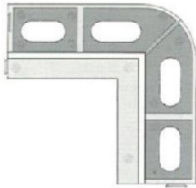
Cover
Size: 650 x 1000 mm

MT65999

Frame
Size: 650 x 1000 mm



Singles Elements



ME A10100

Element angle of the Universal frame
140 x 140 mm



ME A30100

Element angle of the Universal frame
140 x 70 mm



ME L20100

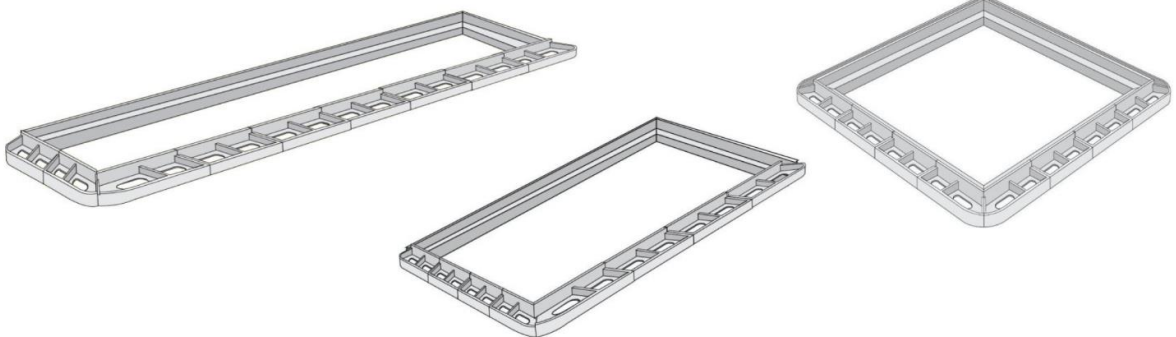
Element of the Liner Frame to be embed
100 x 60 mm



ME L2050

Element of the Liner Frame to be embed 50
50 x 60 mm

Frame To Be Embedded



MULTIGRIL®

Area of Application



Bungalows, Condominiums, Semi-Detached, Terrace Houses, HDB, Swimming Pools, Schools, Hospitals, Nursing Homes, Hotels, Factories, Workshops, Market Places, Parks, Chemical Plants, Driveways, Walkways, Resorts, Bicycle Parking Area

UNIGRIL ANTI-SHOCK PVC



EN 124 : 1995



The values of the tensile strength of PVC anti-shock grids and covers are in compliance with the Standard E124:1995. This test method uses punches with different diameters depending on the size of the cover or grid subject to pressure. Pressure is applied with an intensity expressed in KNewton and tests the strength of the product.

UNIGRIL CHARACTERISTICS

UNIGRIL

PVC
ANTI-SHOCK



Unigril grids and covers all bear the CE marking, which guarantees their compliance with EN 1433:2009. Unigril is the best solution for water drainage in sports facilities, swimming pools, garages, edge of roads, squares, car parks, silos, terraces.

Unigril has a wide range of grids, covers and frames available in several different sizes. All models are made of anti-shock PVC that gives the products elasticity and resistance to shock, frost, chemicals and weathering. The outer surface is non-slip, in accordance with safety regulations.

The products were conceived to meet any requirement of collecting storm water in roads, squares, garages, basements and wherever the collection of fluids is required. Frames, grids and covers, thanks to their dielectric and non-flammable properties, are particularly suitable for electrical installations.

Products belonging to **serie 2000** and **Supergriglia** series are suitable for installations where load resistance is required. Grids and covers belonging to the **Supergriglia** series are suitable in transit zones.

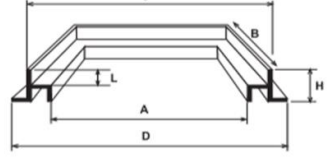
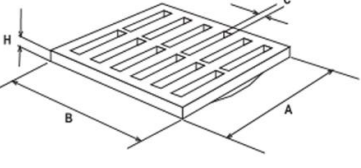
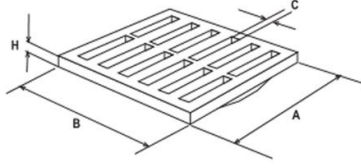


REINFORCED SERIES

LIGHT SERIES

FRAME

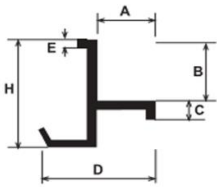
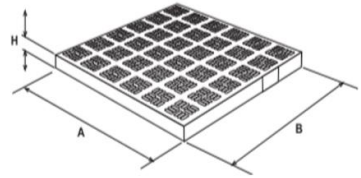
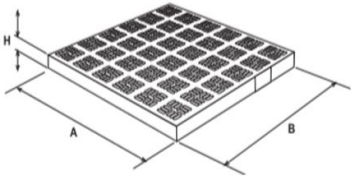
Supergriglia



Supergriglia

serie 2000

serie 2000





SGR 100
Grid
100mm x 500mm x 13mm



CGRN 130
Light Grid
130mm x 500mm x 20mm



SGR 130
Reinforced Grid
130mm x 500mm x 20mm



CGRN 20 L
Light Grid
200mm x 500mm x 20mm



GRP 130
Pool Grid
130mm x 500mm x 20mm

CGRN 20 S
Reinforced Light Grid
200mm x 500mm x 20mm

GRP 200
Pool Grid
200mm x 500mm x 20mm



CGR 200 L
Light Grid
200mm x 500mm x 20mm



TCRP 130
Light Cover
130mm x 500mm x 20mm



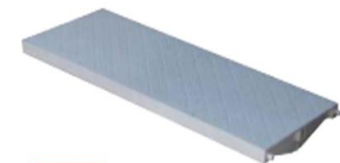
CGR 200 S
Reinforced Light Grid
200mm x 500mm x 20mm



TCRP 200
Light Cover
200mm x 500mm x 20mm



CGR 30 L
Light Grid
300mm x 500mm x 20mm



TCR 200
Reinforced Light Cover
200mm x 500mm x 20mm

CGR 30 S
Reinforced Light Grid
300mm x 500mm x 20mm



TCRP 3050
Light Cover
300mm x 500mm x 20mm

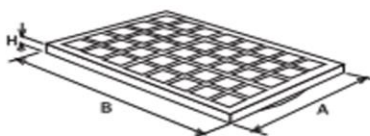
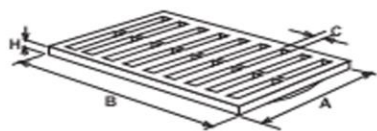


CGR 40 L
Light Grid
400mm x 500mm x 20mm

TCR 3050
Reinforced Light Cover
300mm x 500mm x 20mm



CGR 40 S
Reinforced Light Grid
400mm x 500mm x 20mm



Supergriglia®



serie 2000

SGP 3050 Supergriglia®

Pedestrian Grid
300mm x 500mm x 20mm

SG 3050 Supergriglia®

Reinforced Grid
300mm x 500mm x 20mm

SC 3050 serie 2000

Reinforced Cover
300mm x 500mm x 20mm

Supergriglia®

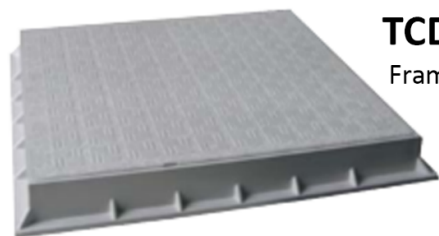


SGP 4050 Supergriglia®

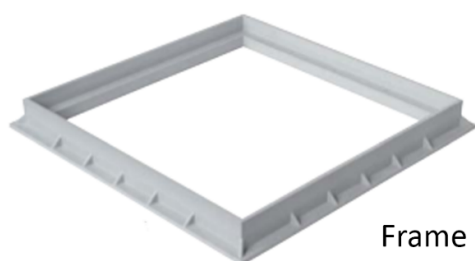
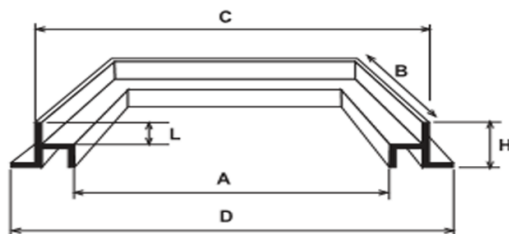
Pedestrian Grid
400mm x 500mm x 20mm

SG 4050 Supergriglia®

Reinforced Grid
400mm x 500mm x 20mm



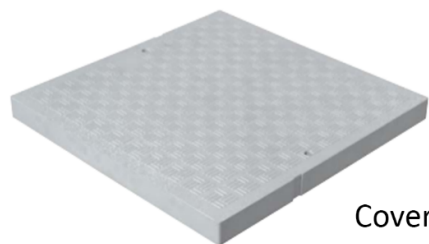
TCDP / TCD
Frame + Cover



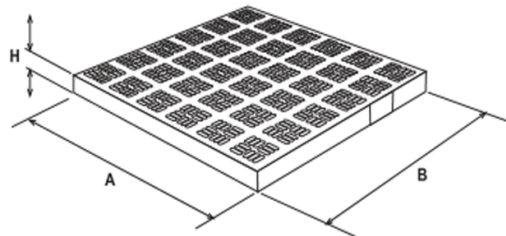
Frame

Model	A	B	C	D	L	H
ST 20	162	162	195	217	20	40
ST 25	204	204	243	265	22	40
ST 30	250	250	295	328	22	42
ST 40	354	354	397	427	25	45
ST 45	401	401	446	478	25	45
ST 55	504	504	547	588	35	54

serie 2000



Cover



SCDP 20

Light Cover
187mm x 187mm x 20mm

SCDP 25

Light Cover
234mm x 234mm x 20mm

SCDP 30

Light Cover
284mm x 284mm x 22mm

SCDP 40

Light Cover
383mm x 383mm x 25mm

SCDP 45

Light Cover
435mm x 435mm x 25mm

SCDP 55

Light Cover
534mm x 534mm x 35mm

SCD 20

Reinforced Cover
187mm x 187mm x 20mm

SCD 25

Reinforced Cover
234mm x 234mm x 20mm

SCD 30

Reinforced Cover
284mm x 284mm x 22mm

SCD 40

Reinforced Cover
383mm x 283mm x 25mm

SCD 45

Reinforced Cover
435mm x 435mm x 25mm

SCD 55

Reinforced Cover
534mm x 534mm x 35mm



SGNP 20

Pedestrian Grid
187mm x 187mm x 20mm

SGN 20

Reinforced Grid
187mm x 187mm x 20mm

SGNP 25

Pedestrian Grid
234mm x 234mm x 20mm

SGN 25

Reinforced Grid
234mm x 234mm x 20mm

SGNP 30

Pedestrian Grid
285mm x 285mm x 22mm

SGN 30

Reinforced Grid
284mm x 284mm x 22mm



SGNP 40

Pedestrian Grid
383mm x 383mm x 25mm

SGN 40

Reinforced Grid
384mm x 384mm x 25mm

SGP 45

Pedestrian Grid
435mm x 435mm x 25mm

SG 45

Reinforced Grid
435mm x 435mm x 25mm

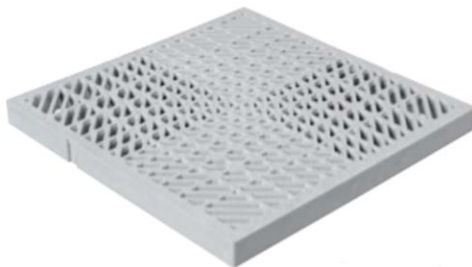
SGP 55

Pedestrian Grid
534mm x 534mm x 35mm

SG 55

Reinforced Grid
534mm x 534mm x 35mm

serie **2000**



SGD 20

Heel-Proof Reinforced Grid
187mm x 187mm x 20mm

SGD 40

Heel-Proof Reinforced Grid
383mm x 383mm x 25mm

SGD 25

Heel-Proof Reinforced Grid
234mm x 234mm x 20mm

SGD 45

Heel-Proof Reinforced Grid
435mm x 435mm x 25mm

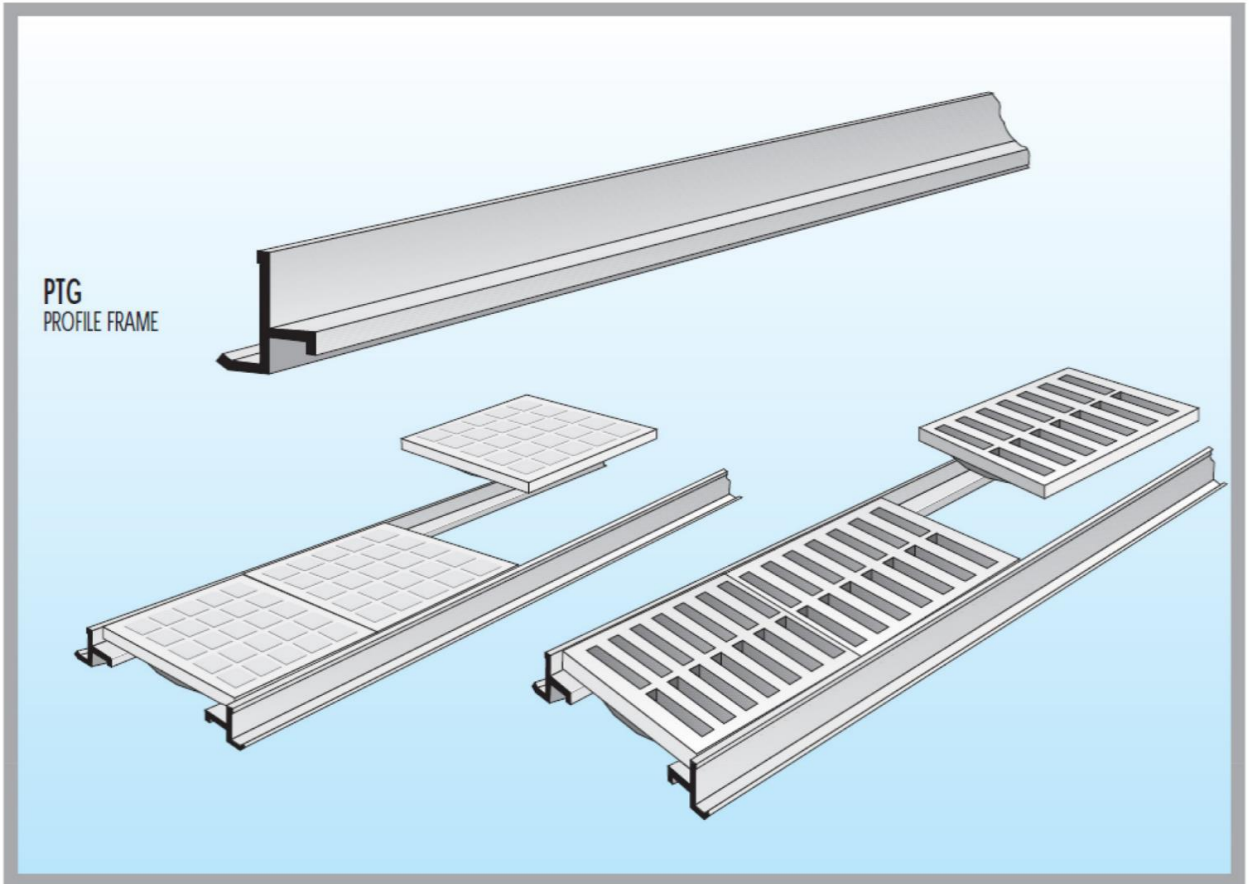
SGD 30

Heel-Proof Reinforced Grid
285mm x 285mm x 22mm

SGD 55

Heel-Proof Reinforced Grid
534mm x 534mm x 35mm

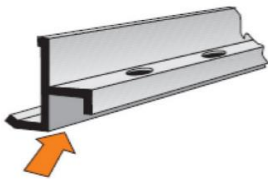
PROFILE FRAMES



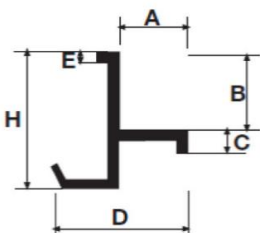
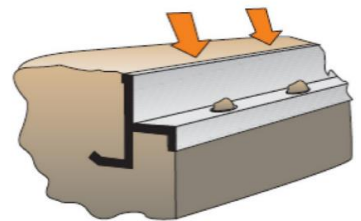
PTG
PROFILE FRAME

THE PROFILE FRAMES in PVC are 2.5m brackets which permit an easy and rapid application of grilles and lids in succession, so as to obtain multiple lengths.

The use of the profile frame is particularly noted in the presence of canalizations or drains with non elevated lengths and for the application of lids or grilles on already existing concrete wells.



The PROFILE is not self carrying, but becomes so with a correcting application (total concrete filling of the lower part of the bracket, and for this purpose it is advised to put some holes along the bottom to be sure of the aforementioned filling).



Model	A	B	C	D	E	H	Application
PTG 20	15	20	5	36	3	35	Grill & Lid 20x20, 25x25, 13x50, 20x50, 30x50, 40x50 MULTIGRILL
PTG 22	15	22	5	36	3	37	Grill & Lid 30x30
PTG 26	15	26	5	36	3	41	Grill & Lid 40x40 – 45x45

COLOUR: GREY

MATERIAL: PVC

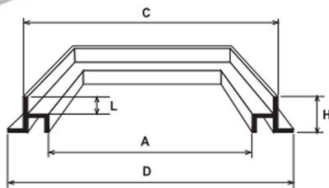
UNIGRIL POLYPROPYLENE



PP



Frame



Model	A	B	C	D	L	H
ST 20 PP	162	162	195	217	20	40
ST 30 PP	250	250	295	328	22	42
ST 40 PP	354	354	397	427	25	45
ST 45 PP	401	401	446	478	25	45
ST 55 PP	504	504	547	588	35	54



SCN 20 PP

Cover
180mm x 180mm x 20mm

SCN 30 PP

Cover
280mm x 280mm x 22mm

SCN 40 PP

Cover
380mm x 380mm x 25mm

SCN 45 PP

Cover
430mm x 430mm x 25mm

SCN 55 PP

Cover
530mm x 530mm x 35mm



SG 20 PP

Grid
180mm x 180mm x 20mm

SG 30 PP

Grid
280mm x 280mm x 22mm

SG 40 PP

Grid
380mm x 380mm x 25mm

SG 45 PP

Grid
430mm x 430mm x 25mm

SG 55 PP

Grid
530mm x 530mm x 35mm



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