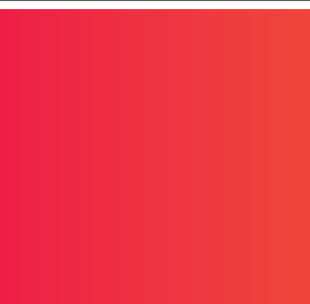


# PRICE LIST



Effective  
01 August 2018



LOOK OUT FOR  
OUR PRICE  
REDUCTION ON  
SELECTED PRODUCTS

NEW  
PRODUCTS  
AND MORE  
SIZES  
ADDED!



## Saint-Gobain Construction Products S.A. (PAM Division)

### HEAD OFFICE

#### Saint-Gobain Construction Products SA (Pty) Ltd

No. 1 Shale Road, N1 Business Park,  
Cnr. Old Johannesburg and Tlokwa Roads  
Kosmosdal Ext 7, Samrand

PO Box 50416, Randjiesfontein, 1683

Tel: +27 (0)12 657 2800

Fax: +27 (0)12 349 8826

### BRANCHES

#### PRETORIA

Tel: +27 (0)12 380 4692/3

Fax: +27 (0)12 386 3249

#### CAPE TOWN

Tel: +27 (0)21 551 5766

+27 (0)21 551 5816

Fax: +27 (0)21 555 2030

#### DURBAN

Tel: +27 (0)31 700 8861

Fax: +27 (0)31 700 9864

#### PORT ELIZABETH

Tel: +27 (0)41 451 3556

Fax: +27 (0)41 451 3558

Fax to Email: +27 (0)41 394 5596

This manual is written for general guidance only. Whilst every care has been taken to ensure that the information contained in this pricelist is correct, Saint-Gobain PAM or its agents do not accept responsibility for any errors, omissions or incorrect assumptions herein. Our policy is one of continuous improvement, therefore we also reserve the right to change or alter the specifications of any product.

All items are sold at the price ruling at the date of dispatch (E&OE).

This pricelist replaces all previous issues and is subject to alteration without prior notice. Rounding of differences will not be adjusted for. All dimensions shown are nominal. Nominal weight (mass kg) can differ from actual weight.

Product images are for illustrative purposes - not contractual.


















#### Terms & Conditions:

This pricelist is excluding any new tax or new import duty that might be enforced by local authorities and on which Saint-Gobain Construction Products S.A. (PAM Division) has no control.

For transport, logistics and goods return policy, please contact your nearest sales branch.

Please confirm availability of stock. Products out of stock might be effected by approximately 12 Weeks lead time from receipt of order - subject to product and quantity ordered.

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## COMPANY PROFILE

As a world leader in the provision of comprehensive pipelines composed of ductile cast iron, Saint-Gobain PAM designs, produces and markets a full range of water-transport solutions. We also supply access covers & gratings and soil & drain pipes for the building sector.

Saint Gobain PAM is part of Saint-Gobain, a leading international industrial group specialising in the production, transformation and distribution of materials for industry and construction.

The international PAM brand has become a benchmark for pipelines everywhere thanks to its innovative, high quality technical solutions. Each year, our dedicated R&D Centre files more than 50 product and process inventions with the French National Institute of Industrial Property. Saint-Gobain PAM's goal is to offer comprehensive pipeline solutions that are in line with emerging customer expectations and the latest water sector developments.

Saint-Gobain PAM offers top quality products that comply with European, international and local standards.



### USEFUL LINKS

**Website:** <http://www.saint-gobain-pam-cast-iron.com/systems-presentation#region-chooser-link>

**Catalogues:** [http://ecatalog.pamline.com/?lg=en\\_GB](http://ecatalog.pamline.com/?lg=en_GB)

**Sales enquiries:** [ZAPAMSales@saint-gobain.com](mailto:ZAPAMSales@saint-gobain.com)

### Access covers & gratings



### Soil & Drain



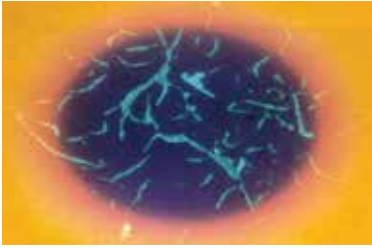
### Water And Sewage



## Product materials and composition

### The difference between Ductile and Grey Iron

#### GREY CAST IRON



Graphite flakes makes the material brittle

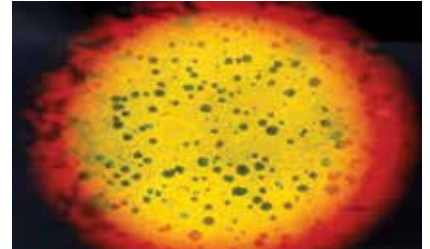
- Brittleness

Both Ductile Iron and Grey Iron have a carbon content of about 3.5% that inhibits corrosion.

The addition of magnesium during the molten stage of the metal transforms the flakes of graphite, which is common to the grey iron casting process and transforms them into spheroidal or nodular form.

The spheroidal structure provides a higher tensile strength as well as a higher strength to weight ratio when compared with the properties inherent to grey iron.

#### DUCTILE IRON



Spheroidal graphite: no propagation or incipient fractures.

- High impact strength
- High elasticity

### Benefits of the ductile iron

- High strength to weight ratio allows for the production of lightweight castings that offer what can amount to a 50% weight saving over cast iron equivalents. Reduced weight and improved load capacity.
- The elasticity of the ductile-iron allows the manufacturing of technical products: hinges, spring bars and frames designed to improve the load bearing area.

#### Some examples of added performance and weight saving

	<b>Grey iron version Manhole cover 2A</b>	<b>Ductile iron version SECUREX Z600D</b>
Weight (cover & frame)	176 kg	69 kg
Maximum workload	130 kN	400 kN
	<b>Grey iron grating 450x600</b>	<b>Watershed grating 450x600</b>
Weight (grating & frame)	99 kg	54 kg
Maximum workload	130 kN	400 kN

### Features



Hinges



Load Transfer Design



Spring bar



### Product Standards

#### SANS 558:1973

Prescribe dimensional and quality requirements for cast iron boxes, manhole covers and frames, inspection covers that is of grey iron and complies with the requirements for grade 150 cast iron of SANS 1034 or of Spheriodal graphite iron. This complies with the requirements for Grade 42 of SANS 936 for roadway, pavement and domestic use.

#### SANS 1115:1976

Prescribe dimensional and quality requirements for cast iron gratings for gullies and stormwater drains that are of grey iron. This complies with the requirements for grade 150 cast iron of SANS 1034 or of Spheriodal graphite iron that complies with the requirements for grade 42 of SANS 936.

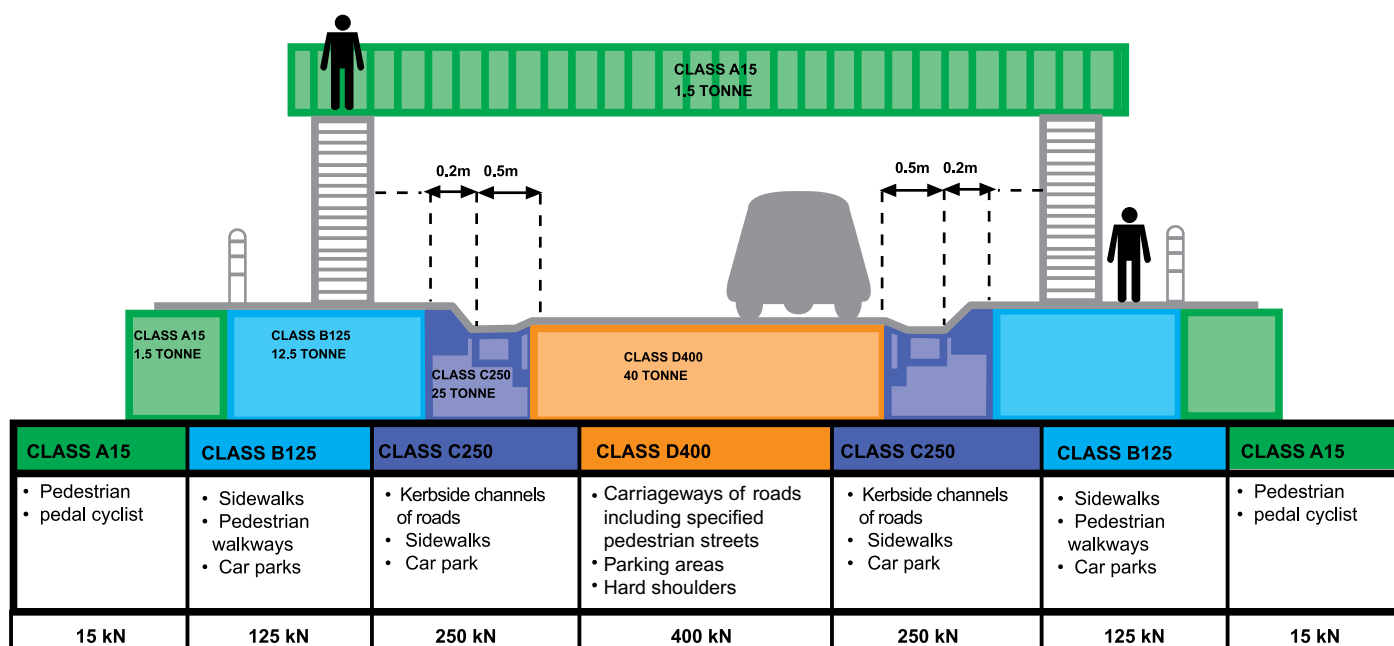
#### SANS 50124:1994

Establish definitions, classes, materials, design and testing requirements, marking and quality control of gully tops and manhole tops with a clear opening up to and including 1000mm, for installation within areas subjected to pedestrian and/or vehicular traffic.

Saint-Gobain complies to SABS 1034 standard specifications for Grey Iron as well as the SANS 936 for Ductile Iron.

SABS 558 AND SABS EN 124 COMPARISON		
	SANS 558 & SANS 1115	SANS 50124
<b>DESCRIPTION</b>	Cast Iron surface boxes and manhole inspection covers and frames.	Gully tops and manhole tops for vehicular and pedestrian areas - designed requirements. Type testing, marking, quality control.
<b>MATERIALS COVERED</b>	SABS 1034 Grey Cast Iron only.	Spheriodal Graphite Cast Iron (Ductile Iron). Flake Graphite Cast Iron (Grey Iron). Cast Steel or any other material that meet the relevant reuirements.
<b>TEST PROCEDURES</b>	Dimensions of test block fixed size of a diameter of 100mm.	Dimensions of test block depends on size and shape of the manhole.
<b>LOADING</b>	H/D - Heavy Duty 135 kN M/D - Medium Duty 40 kN L/D - Light Duty 7 kN	See image below




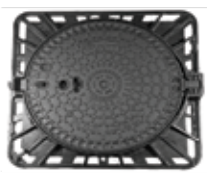




## Reference to Applicable Standards



## DUCTILE IRON MANHOLE COVERS AND FRAMES

Duty Class	SAP Code	Product picture	Description	Clear opening (mm)	Height of frame (mm)	Weight (kg)	Ex-VAT Ex-Works
<b>secuREX Z-600-D - Class D400 600mm CLEAR OPENING</b>							
<b>STANDARD NON-VENTILATED (ROUND)</b>							
	15995		SECUREX DI (Round Frame) Z600D	600	105	63	R 4 546
	15997		SECUREX DI (Round Frame) Z600D including REXLOX	600	105	66,1	R 5 811
<b>STANDARD NON-VENTILATED (SQUARE)</b>							
	18193		SECUREX DI (Square Frame) Z600D	600	105	69	R 5 508
<b>STANDARD VENTILATED (ROUND)</b>							
	15992		SECUREX DI (Round Frame) Ventilated Z600D	600	105	62	R 4 978
<b>ESTATE DN600 D400</b>							
	21100		ESTATE SELF LOCK 600 DIA Square Frame	600	100	60	R 3 766
<b>KORUMIN</b>							
	TBA		KORUMIN with Locking Bar and Elastomer Ring, Hinged Cover (Round Frame)	606	106	44,8	ON REQUEST
<b>KORUPAM</b>							
	TBA		KORUPAM with Locking bar and Elastomer Ring and Hinge	605	100	37	ON REQUEST
<b>SECUREX Y-560-C Class C250 560mm CLEAR OPENING</b>							
	15966		SECUREX DI Y560C	560	124	37	R 2 241
	15998		SECUREX DI Y560C including REXLOX	560	124	37,3	R 3 698

# DUCTILE IRON MANHOLE COVERS AND FRAMES

Duty Class	SAP Code	Product picture	Description	Clear opening (mm)	Height of frame (mm)	Weight (kg)	Ex-VAT Ex-Works
<b>URBAMAX E600 ULTRA HEAVY DUTY COVER - 60 TONNE LOADING</b>							
	15984		URBAMAX (Round frame)	600	100	102	R 7 045
	15983		URBAMAX (Square frame)	600	100	102	R 7 460
	15986		URBAMAX (Square frame)	600	100	105	R 8 026
<b>City of Cape Town - STANDARD 2010 D400 MANHOLE COVER AND FRAME</b>							
<b>Customize with colored concrete (Contact your nearest branch)</b>							
	20559		COCT STD DI Cover	600	80	92	R 3 496
	20560		COCT STD DI Frame	600	150	65,5	R 3 145
<b>PAMTIGHT D400 SEALED TO PREVENT 1 BAR POSITIVE OR NEGATIVE AIR &amp; WATER PRESSURE</b>							
	15985		PAMTIGHT Sealed DI	600	100	102	R 9 522
<b>PAMREX APPARENT</b>							
	15981		PAMREX APPARENT	610	160	133	R 15 551
	15982		PAMREX APPARENT (Ventilated)	610	160	133	R 15 551
<b>PAMREX</b>							
	15979		PAMREX (Square Frame)	600	100	97	R 11 519
	15980		PAMREX (Round Frame)	600	100	88	R 10 911
	21089		PAMREX (Square Frame)	800	100	120,8	R 14 987

## DUCTILE IRON MANHOLE COVERS AND FRAMES

Duty Class	SAP Code	Product picture	Description	Clear opening (mm)	Height of frame (mm)	Weight (kg)	Ex-VAT Ex-Works
<b>DI RECESSED MANHOLE COVER AND FRAME</b>							
	TBA		DI Recessed Manhole Cover and Frame (suitable for concrete/paving/brick infill)	600x600	95	47	ON REQUEST
<b>OPT-EMAX</b>							
	TBA		OPT-EMAX 2 COVER	600x600	100	96	ON REQUEST
	15988		OPT-EMAX 4 COVER	1200x685	100	217	ON REQUEST
	TBA		OPT-EMAX 6 COVER	1800x750	100	317	ON REQUEST
<b>SILENT KNIGHT D400</b>							
	18198		Silent Knight (4 Cover)	1210x685	150	248,4	R 20 858
	18199		Silent Knight (6 Cover)	1825x685	150	365,3	R 27 812
	15991		Silent Knight safety grid			2,2	R 716
<b>DI 900x900 D400</b>							
	21090		DI CQR900A 900x900 D400	900x900	100	95	R 7 616
<b>PARXCESS C250 &amp; AKSESS B125 DUCTILE IRON COVERS AND FRAMES INCL. MECHANICAL LOCK</b>							
	15963		PARXCESS DI C250 700 WITH LOCK	600x600	38	38,8	R 4 050
	15947		AKSESS DI B125 300 * while stocks last	220x220	37	8,2	R 1 416
	15948		AKSESS DI B125 400	300x300	37	12,8	R 1 592
	15949		AKSESS DI B125 450	350x350	38	15,3	R 2 729
	15950		AKSESS DI B125 500	400x400	38	18,2	R 1 947
	15953		AKSESS DI B125 550	450x450	38	22	R 3 014
	15951		AKSESS DI B125 600	500x500	38	38,4	R 4 430
	15946		AKSESS DI B125 550X700	450x600	38	32	R 3 371
	15952		AKSESS DI B125 800	700x700	41	52,7	R 4 969
<b>PASSUS</b>							
	TBA		PASSUS D600 with Locking Spring Bar	600	70	27,5	ON REQUEST



# GREY IRON MANHOLE COVERS AND FRAMES

Duty Class	SAP Code	Product picture	Description	Clear opening (mm)	Height of frame (mm)	Weight (kg)	Ex-VAT Ex-Works	
<b>SQUARE SINGLE SEAL CAST IRON MANHOLES AND FRAMES</b>								
LD	15838		Grey Iron Cover 14A	265x265		5	R 170	
LD	15839		Grey Iron Frame 14A	265x265	29	4	R 165	
LD	15841		Grey Iron Cover 380X380	380x380		13	R 761	
LD	15842		Grey Iron Frame 380X380	380x380	30	7	R 597	
LD	15844		Grey Iron Cover 14B	450x450		20	R 801	
LD	15845		Grey Iron Frame 14B	450x450	30	8,5	R 596	
MD	15871		Grey Iron Cover TYPE 12	530x530		40	R 1 663	
MD	15872		Grey Iron Frame TYPE 12	530x530	51	27	R 1 260	
LD	15855		Grey Iron Cover 9A	600x600		45	R 1 353	
LD	15856		Grey Iron Frame 9A	600x600	46	18	R 956	
MD	15874		Grey Iron Cover 9B	600x600		63	R 1 943	
MD	15875		Grey Iron Frame 9B	600x600	52	19	R 1 018	
MD	15877			Grey Iron Cover 760X760	760x760		79	R 3 130
MD	15878			Grey Iron Frame 760X760	760x760	58	33	R 2 078
MD	15880	Grey Iron Cover 900X900		900x900		95	R 4 318	
MD	15881	Grey Iron Frame 900X900		900x900	58	76	R 2 928	
<b>RECTANGULAR SINGLE SEAL CAST IRON MANHOLES AND FRAMES</b>								
LD	15847		Grey Iron Cover 25KG	450x600		17	R 447	
LD	15848		Grey Iron Frame 25KG	450x600	32	8,4	R 238	
LD	15850		Grey Iron Cover 14C	450x600		24	R 901	
LD	15851		Grey Iron Frame 14C	450x600	45	15	R 724	
LD	15853		Grey Iron Cover 9C	450x600		30	R 941	
LD	TBA		Grey Iron Frame 9C	450x600		19	R 855	
MD	15866		Grey Iron Cover 9D	450x600		42	R 1 403	
MD	15867		Grey Iron Frame 9D	450x600	56	26	R 951	
HD	15921		Grey Iron Cover CCP 117 KG	450x600		82	R 2 432	
HD	15922		Grey Iron Frame CCP 117 KG	450x600	60	35	R 1 358	
LD	15858		Grey Iron Cover 9E	600x900		65	R 2 546	
LD	15859		Grey Iron Frame 9E	600x900	46	28	R 1 869	
<b>DOUBLE SEAL CAST IRON MANHOLES AND FRAMES</b>								
MD	15883			Grey Iron Cover 8A	450x600		44	R 1 419
MD	15884	Grey Iron Frame 8A		450x600	48	28	R 1 212	
MD	15887	Grey Iron Cover 8B		600x600		76	R 2 720	
MD	15888	Grey Iron Frame 8B		600x600	54	48	R 1 841	
<b>CAST IRON MANHOLES AND FRAMES WITH CONCRETE INFILL OPTION</b>								
MD	15911		Grey Iron Cover TYPE 6	600x600		66	R 2 571	
MD	15912		Grey Iron Frame TYPE 6	600x600	53	32	R 1 635	

# GREY IRON MANHOLE COVERS AND FRAMES

Duty Class	SAP Code	Product picture	Description	Clear opening (mm)	Height of frame (mm)	Weight (kg)	Ex-VAT Ex-Works
<b>CIRCULAR ROAD MANHOLE COVERS &amp; FRAMES</b>							
HD	15926		Grey Iron COVER 2A	550		85,2	R 2 126
HD	15923		Grey Iron FRAME TYPE 2A	550	115	90	R 2 787
HD	15927		Grey Iron FRAME (Modified) 2A	550	115	70	R 1 788
HD	15929		Grey Iron COVER 2B (Ventilated)	550		82,2	R 2 463
HD	15923		Grey Iron FRAME TYPE 2A	550	115	92,8	R 2 787
HD	15931		Grey Iron COVER STD 1A (Suitable for infill)	650		86	R 3 603
HD	15932		Grey Iron FRAME Standard 1A	650	115	118	R 4 092
MD	15894		Grey Iron COVER Standard 1B	650		54	R 2 415
MD	15895		Grey Iron FRAME Standard 1B	650	70	81	R 2 896
<b>STANDARD PAVEMENT MANHOLE COVERS &amp; FRAMES: CIRCULAR AND SQUARE</b>							
MD	15916		Grey Iron COVER TYPE 4	550		47	R 1 621
MD	15917		Grey Iron FRAME TYPE 4	550	57	24	R 999
MD	15905		Grey Iron COVER TYPE 4A	550		42	R 1 496
MD	15906		Grey Iron FRAME TYPE 4A	550	57	33	R 1 133
HD	15937		LAMPHOLE GI COVER 245	245		26,7	R 1 409
HD	15938		LAMPHOLE GI FRAME 245	245		40	R 2 498

# GREY IRON METER, VALVE BOXES, STOPCOCK BOXES AND HYDRANT BOXES

Duty Class	SAP Code	Product picture	Description	Clear opening (mm)	Height of frame (mm)	Weight (kg)	Ex-VAT Ex-Works
<b>METER BOXES HINGED</b>							
LD	16088		Meterbox GI 300X200X150 10A	300x200	150	17	R 926
LD	16089		Meterbox GI 300X225X100 11C	300x225	100	10	R 635
LD	16090		Meterbox GI 300X300X100 11D	300x300	100	14	R 806
LD	16091		Meterbox GI 375X225X100	375x225	100	13	R 859
LD	16092		Meterbox GI 375X225X150 10B	375x225	150	21,5	R 1 283
LD	16094		Meterbox GI 375X300X150 10C	375x300	150	25	R 1 564
<b>VALVE BOXES</b>							
HD	16106		Valvebox GI TYPE 3B 100X230X230	100x230	230	17	R 797
HD	16107		Valvebox GI TYPE 3A 100X230X300	100x230	300	25,2	R 1 123
HD	16098		Valvebox ROAD 178X115X150	178x115	150	17	R 784
<b>STOPCOCK BOXES</b>							
LD	16095		Stopcock Box GI 150X150X100 11A	150x150	100	4,5	R 287
LD	16097		Stopcock Box GI 225X225X100 11B	225x225	100	10	R 613
LD	16099		Stopcock GI TYPE 7 115X102 DIA	115x102		4,3	R 275
<b>HYDRANT BOX</b>							
MD	16101		Hydrant Box GI TYPE 5 375X300X150	375x300	150	4,5	R 2 280
<b>DUCTILE IRON BOXES</b>							
<b>HYDREX</b>							
	16110		HYDREX DI Z300X400C with Sliding cover	300x400	100	28,3	R 2 121
	16116		HYDREX DI Z300X400C with sliding cover and REXLOX	300x400	100	28,7	R 3 652
<b>HYDRANT BOX</b>							
	18197		WARRIOR SURFACE BOX 380X230X125	380x230	125	27	on request

## DUCTILE IRON GRATINGS AND FRAMES

Duty Class	SAP Code	Product picture	Description	Clear opening (mm)	Height of frame (mm)	Weight (kg)	Ex-VAT Ex-Works
<b>DUCTILE IRON GRATINGS AND FRAMES HINGED D400</b>							
 CLASS D400	21083		AQUAMAX	450x450	100	47	R 3 170
 CLASS D400	21084		WATERSHED	450x600	100	54,2	R 4 056
 CLASS D400	18196		REXUS	600x600	100	85	R 5 922
 CLASS D400	21088	 	DEDRA D400	800x800	100	88,2	R 11 779
 CLASS D400	TBA	 	Ductile Iron Double Grating	1130x520	100	203	on request
<b>AUTOLINEA D400 INTERLOCKING CHANNEL GRATING</b>							
 CLASS D400	16082		AUTOLINEA Ductile Iron Channel Grating	750x300	35	23,3	R 1 373
	TBA		AUTOLINEA Ductile Iron Channel Grating	750x400	35	33	R 3 354
	TBA		AUTOLINEA Ductile Iron Channel Grating	750x500	35	43	R 5 001
<b>TRANSLINEA CHANNEL GRATINGS</b>							
 CLASS D400	16085		TRANSLINEA D400 CHANNEL GRATING	750x400	27	47	R 3 600
	16622		TRANSLINEA CHAINING DEVICE				R 400
	16620		TRANSLINEA END PIECE				R 625
<b>SELECTA KERB GULLY WITH NON REMOVEABLE GRATING</b>							
 CLASS C250	16079		SELECTA DI Kerb Gully Grate 500	540x450	90	57,5	R 4 402
	16080		SELECTA DI Kerb Gully Grate MAXI 750	570x610	110	94	R 7 602

\* Minimum of 12 Weeks delivery from receipt of order - Subject to quantity ordered

Price list effective the 1st August 2018

# DUCTILE IRON CHANNEL GRATINGS

Duty Class	SAP Code	Product picture	Description	Clear opening (mm)	Height of frame (mm)	Weight (kg)	Ex-VAT Ex-Works
<b>AUTOLINEA C250 PARRALELO TO TRAFFIC</b>							
<b>CLASS C250</b>  	16067		AUTOLINEA DI CH GRATING*	750x200	30	13	R 1 128
	16068		AUTOLINEA DI CH GRATING*	750x250	30	18	R 2 007
	16069		AUTOLINEA DI CH GRATING*	750x300	30	22	R 2 454
	TBA		AUTOLINEA DI CH GRATING*	750x400	30	24,8	R 2 816
	TBA		AUTOLINEA DI CH GRATING*	750x500	30	39	R 4 781
	TBA		AUTOLINEA DI CH GRATING*	750x600	30	49,5	R 5 658
	TBA		AUTOLINEA DI CH GRATING*	750x700	30	60	R 6 285
	<b>CHANNEL GRATINGS MECALINEA C250 TRANSVERSE TO TRAFFIC</b>						
<b>CLASS C250</b>  	16070		MECALINEA DI CH GRATING*	750x300	27	22,7	R 2 596
	TBA		MECALINEA DI CH GRATING*	750x350	27	30	R 3 198
	TBA		MECALINEA DI CH GRATING*	750x400	27	35	R 3 476
	TBA		MECALINEA DI CH GRATING*	750x500	27	42	R 5 033
	TBA		MECALINEA DI CH GRATING*	750x600	27	54	R 5 485
	TBA		MECALINEA DI CH GRATING*	750x700	27	67	R 6 240

\* Minimum of 12 Weeks delivery from receipt of order – Subject to quantity ordered












## GREY IRON GRATINGS AND FRAMES

Duty Class	SAP Code	Product picture	Description	Clear opening (mm)	Height of frame (mm)	Weight (kg)	Ex-VAT Ex-Works
<b>GRATINGS (FLAT ROUND FOR GULLEYS)</b>							
LD	16018		Gulley Grate	140mm	8	0,7	R 61
LD	16019		Gulley Grate	190mm	8	1,2	R 70
LD	16020		Gulley Grate GI HINGED GRS	140mm	13	1,8	R 161
<b>STORMWATER GRATINGS AND FRAMES</b>							
MD	16047		Stormwater GI GRATE	450x450		71,7	R 1 402
MD	16048		Stormwater GI FRAME	450x450	100	39,3	R 1 505
MD	16050		Stormwater GI GRATE	550x550		64,4	R 3 180
MD	16051		Stormwater GI FRAME	550x550	130	62,6	R 3 090
HD	16062		Stormwater GI GRATE	450x760		60,5	R 2 839
HD	16063		Stormwater GI FRAME	450x760	90	49	R 2 287
HD	16053		Stormwater GI GRATE	300x450		26	R 902
HD	16054		Stormwater GI FRAME	300x450	102	27,2	R 1 078
HD	16056		Stormwater GI GRATE Concave	400x600		73	R 2 320
HD	16057		Stormwater GI FRAME	400x600	102	54	R 1 868
HD	16059		Stormwater GI GRATE Concave	450x600		56,3	R 2 310
HD	16060		Stormwater GI FRAME	450x600	102	43,2	R 1 434
HD	16065		Stormwater GI GRATE Concave	520x790		67,2	R 2 608
HD	16066		Stormwater GI FRAME	520x790	90	60,2	R 2 334
<b>SQUARE DISH GRATINGS AND FRAMES</b>							
LD	16023		Square Dish GI GRATE	150x150		1,9	R 124
LD	16024		Square Dish GI FRAME	150x150	34	0,9	R 149
LD	16026		Square Dish GI GRATE	230x230		3	R 182
LD	16027		Square Dish GI FRAME	230x230	34	2,3	R 190
LD	16029		Square Dish GI GRATE	300x300		5,4	R 314
LD	16030		Square Dish GI FRAME	300x300	38	4,9	R 275
LD	16032		Square Dish GI GRATE	380x380		8,8	R 412
LD	16033		Square Dish GI FRAME	380x380	52	10	R 430
LD	16035		Square Dish GI GRATE	450x450		13,9	R 494
LD	16036		Square Dish GI FRAME	450x450	65	13,5	R 554
LD	16038		Square Dish GI GRATE	600x600		30	R 1 116
LD	16039		Square Dish GI FRAME	600x600	65	20	R 994

## MISCELLANEOUS

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>CAST IRON ABC CLEANING EYES</b>				
16217		100mm Dia STRAIGHT (90 degrees)	1,9	R 218
16262		150mm Dia STRAIGHT (90 degrees)	6,3	R 589
16218		100mm Dia BENT (45 degrees)	2,5	R 214
16263		150mm Dia BENT (45 degrees)	5,8	R 716
<b>LOCKING BARS</b>				
16638		Locking Bar Large	5,1	R 741
16639		Locking Bar Small	2,8	R 620
<b>MANHOLE STEP-IRONS TO BS1247</b>				
16616		Step Iron Short Galvanised FOR CONCRETE 185mm	1	R 106
16617		Step Iron Long Galvanised FOR BRICKWORK 255MM	1,7	R 129
<b>CAST IRON BASIN BRACKETS</b>				
16407		Basin Bracket GI Standard Round Nose 300mm (pair)	1,8	R 116
16408		Basin Bracket GI TWYFORD 300mm (pair)	1,2	R 137
<b>MANHOLE LIFTING KEYS</b>				
16619		Lifting Key STANDARD	0,5	R 209
<b>COUPLINGS FOR ASBESTO-CEMENT PIPES (SHORT COLLARS)</b>				
16433		SHORT COLLAR INNER OUTER SET 75MM	3,23	R 214
16434		SHORT COLLAR INNER OUTER SET 100MM	5,26	R 324
16436		SHORT COLLAR INNER OUTER SET 150MM	9,8	R 573
16420		SHORT COLLAR COD SEAL RING 75MM	0,1	R 21
16421		SHORT COLLAR COD SEAL RING 100MM	0,1	R 21
16422		SHORT COLLAR COD SEAL RING 150MM	0,1	R 24

(2 SEAL RINGS REQUIRED PER SHORT COLLAR)

## MISCELLANEOUS

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>REX-LOX MECHANICAL LOCKING SYSTEM</b>				
16636		REXLOX Mechanical Lock	0,3	R 1 330
16637		REXLOX Key	0,1	R 242
16625		AKSESS Key	0,5	R 259
<b>ZUBRI</b>				
15999	 <span style="color: red; font-weight: bold;">New</span>	Zubri Manhole Collar 2A	1,9	R 1 569
16003		Zubri Manhole Collar CC 40mm	6,3	R 2 086
16004		Zubri Manhole Collar CC 30mm	2,5	R 2 965
16016		Zubri Grout 1L	5,8	R 287
<b>uPVC ADAPTORS WITH THREAD (FOR FULL FLOWS)</b>				
16393		Full Flow PVC ADAPTOR 50mm dia	0,1	R 94
16394		Full Flow PVC ADAPTOR 75mm dia	0,1	R 109
16395		Full Flow PVC ADAPTOR 100mm dia	0,11	R 134
16396		Full Flow PVC ADAPTOR 150mm dia	0,12	R 206

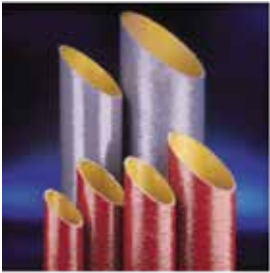


## CAST IRON DRAINAGE SYSTEMS

Saint-Gobain produce cast iron above and below ground drainage systems for the sewerage, telecommunications, highways, civil engineering construction and housing markets.

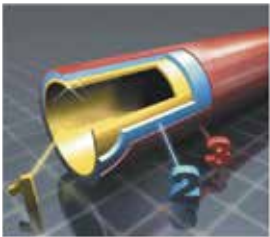
Ensign meets the requirements of ISO 6594 and is tested kitemark approved to the product standard BS EN 877.

### High performance coatings and linings



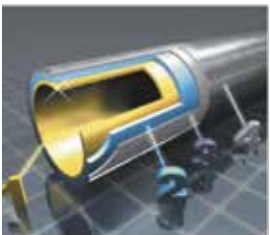
#### Pipe Types (Below and Above Ground)

1. Ensign/SMU S (Red/Plain Ended)
2. Ensign/SMU Plus (Grey and Plain Ended)



#### Above Ground (Exposed/Concrete Encased)

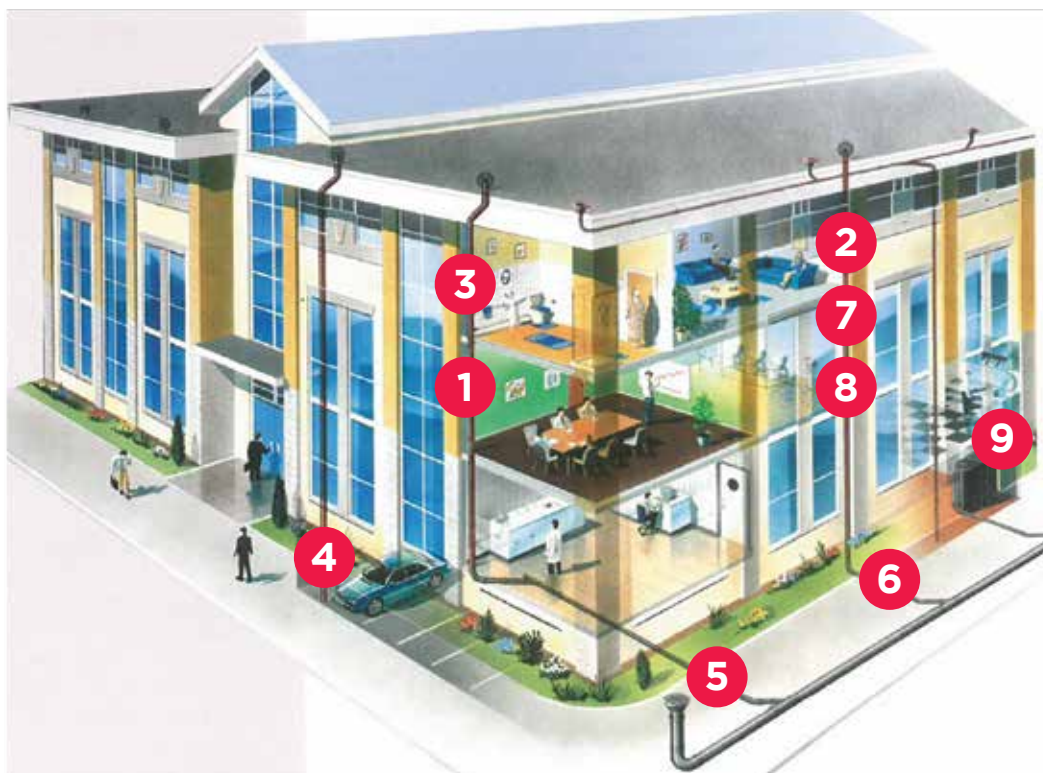
- Ensign Soil/SMU S (Red/Plain Ended)
1. Epoxy Resin Lining (Internal)
  2. Cast Iron (Metal)
  3. Red Oxide Primer



#### Below Ground (Buried in Soil)

- Ensign Drain/SMU Plus (Grey/Plain Ended)
1. Epoxy Resin Lining (Internal)
  2. Cast Iron (Metal)
  3. Zinc Coating (Flame Applied)
  4. Grey Acrylic Primer








### ADVANTAGES OF SPECIFYING CAST IRON



1. Fire safety
2. Acoustic performance
3. No expansion joints strength, less maintenance
4. Resistance to damage
5. Ground movement
6. Less embedment
7. Less fixings
8. Longevity
9. Resistance to extreme temperatures



# SMU S / ENSIGN CAST IRON DRAINAGE SYSTEMS

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>DOUBLE SPIGOT PIPE</b>				
16119		SMU Pipe Plain Ended Dia 50mm, 3m Length	13	R 905
16120		SMU Pipe Plain Ended Dia 100mm, 2m Length	18	R 759
16121		SMU Pipe Plain Ended Dia 100mm, 3m Length	25,2	R 1 134
16122		SMU Pipe Plain Ended Dia 150mm, 2m Length	27,27	R 1 378
16123		SMU Pipe Plain Ended Dia 150mm, 3m Length	42,2	R 2 067
16124		SMU Pipe Plain Ended Dia 200mm, 3m Length	69,3	R 3 274
16125		SMU Pipe Plain Ended Dia 250mm, 3m Length	99,8	R 4 747
16126		SMU Pipe Plain Ended Dia 300mm, 3m Length	129,7	R 6 189
<b>15 DEGREE BENDS (SHORT RADIUS)</b>				
19337		Bend Plain Short Radius 50X15° S	0,4	R 71
19338		Bend Plain Short Radius 100X15° S	1	R 165
19339		Bend Plain Short Radius 150X15° S	2,5	R 688
19460		Bend Plain Short Radius 200X15° S	4,6	R 814
<b>22.5 DEGREE BENDS (SHORT RADIUS)</b>				
19461		BEND PL SR 50X22.5° S	0,45	R 889
19340		BEND PL SR 100X22.5° S	1,3	R 279
19341		BEND PL SR 150X22.5° S	2,6	R 688
19342		BEND PL SR 200X22.5° S	4,4	R 1 951
19343		BEND PL SR 250X22.5° S	9,5	R 4 282
19344		BEND PL SR 300X22.5° S	15,3	R 4 892
<b>88 DEGREE VENTED BENDS (SHORT RADIUS)</b>				
19462		BEND PL SR RADIAL VENT S 100X88° 50mm	2,15	R 663
19463		BEND PL SR AXIAL VENT S 100X88° 50mm	2,15	R 918
<b>45 DEGREE BENDS (SHORT RADIUS)</b>				
19345		BEND PL SR 50X45° S	0,55	R 88
19346		BEND PL SR 100X45° S	1,57	R 173
19347		BEND PL SR 150X45° S	3,19	R 651
19348		BEND PL SR 200X45° S	5,25	R 1 188
19349		BEND PL SR 250X45° S	10	R 2 084
19350		BEND PL SR 300X45° S	18,82	R 4 957
<b>88 DEGREE BENDS (SHORT RADIUS)</b>				
19351		BEND PL SR 50X88° S	0,8	R 96
19352		BEND PL SR 100X88° S	2,22	R 251
19353		BEND PL SR 150X88° S	4,34	R 665
19354		BEND PL SR 200X88° S	8,1	R 1 436
19355		BEND PL SR 250X88° S	13,5	R 4 466
19356		BEND PL SR 300X88° S	27,67	R 7 035
<b>45 DEGREE SINGLE BRANCH (JUNCTIONS)</b>				
19357		BRANCH JUNCTION PL 50X50X45° S	1,15	R 173
19358		BRANCH JUNCTION PL 100X50X45° S	2,45	R 328
19359		BRANCH JUNCTION PL 100X100X45° S	3,95	R 411
19360		BRANCH JUNCTION PL 150X100X45° S	6,1	R 956
19361		BRANCH JUNCTION PL 150X150X45° S	8,7	R 1 073
19362		BRANCH JUNCTION PL 200X100X45° S	9,33	R 2 967
19363		BRANCH JUNCTION PL 200X150X45° S	12,32	R 5 135
19364		BRANCH JUNCTION PL 200X200X45° S	15,8	R 6 103
19464		BRANCH JUNCTION PL 250X100X45 S	13,6	R 5 550
19465		BRANCH JUNCTION PL 250X150X45 S	17,25	R 5 825
19365		BRANCH JUNCTION PL 250X200X45° S	24,3	R 7 772
19366		BRANCH JUNCTION PL 250X250X45° S	32,8	R 8 194
19466		BRANCH JUNCTION PL 300X100X45° S	19,3	R 5 826
19467		BRANCH JUNCTION PL 300X150X45° S	23,2	R 6 382
19468		BRANCH JUNCTION PL 300X200X45° S	28,4	R 7 908
19367		BRANCH JUNCTION PL 300X250X45° S	37,2	R 10 186
19368		BRANCH JUNCTION PL 300X300X45° S	50,6	R 10 724



## SMU S / ENSIGN CAST IRON DRAINAGE SYSTEMS CONTINUED











SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>88 DEGREE SINGLE BRANCH (JUNCTIONS)</b>				
19369		Branch Junction Plain 50X50X88° S	1,1	R 173
19370		Branch Junction Plain 100X50X88° S	2,25	R 295
19371		Branch Junction Plain 100X100X88° S	2,65	R 335
19372		Branch Junction Plain 150X50X88° S	3,9	R 920
19373		Branch Junction Plain 150X100X88° S	4,9	R 1 057
19374		Branch Junction Plain 150X150X88° S	6,5	R 1 386
19469		Branch Junction Plain 200X100X88° S	9,8	R 1 903
19375		Branch Junction Plain 200X200X88° S	11,1	R 4 173
19376		Branch Junction Plain 250X250X88° S	18,5	R 7 630
19470		Branch Junction Plain 300X300X88° S	34	R 8 185
<b>45 DEGREE BRANCHES (JUNCTIONS)</b>				
19471		Double Branch Junction Plain 100X100X45° S	4,5	R 1 043
19472		Double Branch Junction Plain 150X100X45° S	7,3	R 3 608
19473		Double Branch Junction Plain 150X150X45° S	11,7	R 3 955
19474		Double Branch Junction Plain 200X200X45° S	18,4	R 7 692
<b>88 DEGREE DOUBLE BRANCHES</b>				
19475		Double Branch Junction Plain 100X50X88° S	2,2	R 419
19476		Double Branch Junction Plain 100X100X88° S	3,2	R 682
19477		Double Branch Junction Plain 150X100X88° S	7,1	R 1 195
<b>88 DEGREE LONG RADIUS BENDS</b>				
19377		Bend Plain Long Radius 100X88° S	4,23	R 918
19378		Bend Plain Long Radius 150X88° S	8	R 1 486
<b>BLANK ENDS/END CAPS</b>				
19478		Blank End Cap DN50 S	0,25	R 67
19479		Blank End Cap DN100 S	0,8	R 255
19480		Blank End Cap DN150 S	1,7	R 266
19481		Blank End Cap DN200 S	3,2	R 405
19482		Blank End Cap DN250 S	5,9	R 765
19483		Blank End Cap DN300 S	9,4	R 1 223
<b>TAPERED PIPES/REDUCERS</b>				
19379		Eccentric Reducer PL 100X50 S	1	R 137
19484		Eccentric Reducer PL 150X50 S	1,9	R 251
19380		Eccentric Reducer PL 150X100 S	2,3	R 289
19381		Eccentric Reducer PL 200X100 S	3,65	R 818
19382		Eccentric Reducer PL 200X150 S	3,85	R 1 040
19383		Eccentric Reducer PL 250X100 S	5,7	R 1 847
19384		Eccentric Reducer PL 250X150 S	5,9	R 1 627
19385		Eccentric Reducer PL 250X200 S	6,1	R 1 627
19386		Eccentric Reducer PL 300X100 S	9,1	R 2 581
19387		Eccentric Reducer PL 300X150 S	9,7	R 2 914
19388		Eccentric Reducer PL 300X200 S	9,7	R 3 052
19389	Eccentric Reducer PL 300X250 S	10,1	R 3 331	

## SMU S / ENSIGN CAST IRON DRAINAGE SYSTEMS CONTINUED

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>SHORT ACCESS/INSPECTION PIPES (PRESSURE)</b>				
19485		Short Access Pipe Plain Round DN50 S	1,9	R 571
19390		Short Access Pipe Plain Round DN100 S	4,5	R 1 013
19391		Sort Access Pipe Plain Round DN150 S	10,4	R 2 332
19392		Short Access Pipe Plain Round DN200 S	12,75	R 5 202
19393		Short Access Pipe Plain Round DN250 S	17,6	R 5 272
19394		Short Access Pipe Plain Round DN300 S	26,3	R 6 103
<b>SHORT ACCESS PIPES ENSIGN (NON- PRESSURE)</b>				
20682		Short Access Pipe Plain DN100 Round ES	3,1	R 2 206
20683		Short Access Pipe Plain DN150 Round ES	6,2	R 3 988
<b>STACK SUPPORT PIPES (TO BE INSTALLED AND FIXED WITH TWO CANTILEVER ARMS REFER TO THE BOTTOM OF THE PAGE FOR CANTILEVER ARMS)</b>				
19486		Stack Support Pipe Plain DN100 S	4,5	R 779
19487		Stack Support Pipe Plain DN150 S	7,2	R 1 347
<b>TRAPS PLAIN</b>				
19501		S Trap Plain DN100 ES	1,8	R 793
<b>TRAPS (IE - BOTTOM ACCESS)</b>				
19502		S Trap IE DN50 ES	2	R 578
19503		S Trap IE DN100 ES	5,2	R 1 029
19504		S Trap IE DN150 ES	12,1	R 2 043
<b>MULTI MANIFOLD CONNECTORS</b>				
19505		MANIFOLD PL DN100 3 INLETS 32 TO 38mm ES	3,2	R 923
19506		MANIFOLD PE DN150 3 INLETS 50mm ES	6,1	R 2 985
<b>GRIP COLLARS FOR COUPLINGS - G.S.C STEEL SPEC</b>				
19507		Grip Collar for Couplings DN50	0,45	R 241
19508		Grip Collar for Couplings DN100	0,9	R 287
19509		Grip Collar for Couplings DN150	1,23	R 467
<b>TWO PIECE DUCTILE IRON COUPLINGS</b>				
19510		Two Piece Ductile Iron Coupling DN50	0,6	R 171
19512		Two Piece Ductile Iron Coupling DN100	0,8	R 227
19513		Two Piece Ductile Iron Coupling DN150	1,7	R 460
<b>CANTILEVER ARMS - GALVANIZED STEEL (36/40/2) (FOR STACK SUPPORT PIPE FIXING REFER TO TOP OF PAGE FOR STACK SUPPORT PIPES)</b>				
19513		Cantilever Arm for DN100 DN150 36 TO 42 SPEC	0,85	R 249

## SMU S / ENSIGN CAST IRON DRAINAGE SYSTEMS CONTINUED



SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>88 DEGREE SHORT RADIUS IE BENDS - DOOR BACK</b>				
19395		Bend IE Short Radius DOOR BACK 100X88° S	3,3	R 578
19488		Bend IE Short Radius DOOR BACK 150X88° S	6,1	R 1 556
<b>88 DEGREE LONG RADIUS IE BEND - DOOR BACK</b>				
19489		Bend IE Long Radius DOOR BACK 100X88° S	5,5	R 903
<b>88 DEGREE SINGLE IE BRANCHES (JUNCTIONS) - RADIUS CURVE</b>				
19396		Branch JUNCTION IE RAD CURV 100X100X88° S	4,3	R 827
19397		Branch JUNCTION IE RAD CURV 150X100X88° S	10,4	R 1 868
19490		Branch JUNCTION IE RAD CURV 150X150X88° S	13,9	R 4 370
<b>88 DEGREE DOUBLE BRANCHES (JUNCTIONS) RADIUS CURVE</b>				
19491		Double BRANCH JUNC PL RAD CURV 100X100X88° S	4,2	R 1 043
19492		Double BRANCH JUNC PL RAD CURV 150X100X88° S	10,9	R 5 826
<b>RAPID - S NG (NO GAP) COUPLINGS</b>				
19398		Rapid S NG COUPLING DN50	0,1	R 73
19399		Rapid S NG COUPLING DN75 DN80	0,12	R 85
19400		Rapid S NG COUPLING DN100	0,18	R 91
19401		Rapid S NG COUPLING DN150	0,32	R 188
19402		Rapid S NG COUPLING DN200	0,6	R 273
19403		Rapid S NG COUPLING DN250	1,1	R 996
19404		Rapid S NG COUPLING DN300	1,25	R 1 127
<b>DUCTILE IRON BRACKETS</b>				
19493		DUCTILE IRON BRACKCET DN50	0,3	R 91
19494		DUCTILE IRON BRACKET DN100	0,6	R 102
19495		DUCTILE IRON BRACKET DN150	0,8	R 157
19496		DUCTILE IRON BRACKET DN200	1,6	R 322
<b>BOSS PIPES</b>				
19497		SINGLE BOSS PIPE PL 100X50X88° ES	2,1	R 434
19498		SINGLE BOSS PIPE PL 150x50x88° ES	3,8	R 693
19499		DBL BOSS PIPE OPPOSED PL 100X50X88° ES	2,5	R 565
19500		DBL BOSS PIPE OPPOSED PL 150X50X88° ES	4,4	R 863
<b>SSN COUPLINGS (STAINLESS STEEL)</b>				
16321		SSN Coupling REDUCER 50X40	0,1	R 77
16322		SSN Coupling 50mm	0,1	R 52
16323		SSN Coupling 75mm	0,1	R 59
16324		SSN Coupling 100mm	0,2	R 65
16325		SSN Coupling 150mm	0,5	R 135
16326		SSN Coupling 200mm	0,9	R 244







LOWER PRICES!

## ENSIGN EEZI-FIT FITTINGS

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>45 DEGREE BENDS (SHORT RADIUS)</b>				
20641		Eezi-Fit Bend Plain Short Radius 100X45°	1,9	R 243
20642		Eezi-fit Bend PL SR 150X45°	4	R 720
<b>80 DEGREE BENDS (SHORT RADIUS)</b>				
20643		Eezi-fit Bend PL SR 100X88°	2,3	R 323
20644		Eezi-fit Bend PL SR 150X88°	5	R 743
<b>45 DEGREE SINGLE BRANCHES (JUNCTIONS) - RADIUS CURVE</b>				
20645		Eezi-Fit Branch JUNCTION PL 100X100X45° Radius Curve	4,1	R 536
20646		Eezi-Fit Branch JUNCTION PL 150X100X45° Radius Curve	6,5	R 1131
20647		Eezi-fit Branch JUNCTION PL 150X150X45° Radius Curve	8,9	R 1277
<b>88 DEGREE SINGLE BRANCHES (JUNCTIONS) - RADIUS CURVE</b>				
20648		Eezi-Fit Branch JUNCTION PL 100X100X88° Radius Curve	5,6	R 713
20649		Eezi-Fit Branch JUNCTION PL 150X100X88° Radius Curve	7	R 1177
<b>88 DEGREE DOUBLE BRANCHES (JUNCTIONS) - RADIUS CURVE</b>				
20650		Eezi-Fit Double Branch Junction Plain 100X100X88° Radius Curve	6	R 847
<b>88 DEGREE BENDS (LONG RADIUS)</b>				
20651		Eezi-Fit Bend Plain Long Radius 100X88°	4,5	R 844
<b>MULTI MANIFOLD CONNECTORS</b>				
20652		Eezi-fit Manifold Plain DN100 2 Inlets 54mm-56mm	6,6	R 1 055

# ENSIGN EEZI-FIT FITTINGS



SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>EEZI-FIT DUCTILE IRON COUPLINGS</b>				
20653		Eezi-Fit Ductile Iron Coupling DN100	1,3	R 257
20654		Eezi-Fit Ductile Iron Coupling DN150	2	R 420
<b>88 DEGREE IE BENDS (SHORT RADIUS) DOOR BACK</b>				
20655		Eezi-Fit Bend IE Short Radius 100X88° DOOR BACK	3,4	R 579
20656		Eezi Fit Bend IE Short Radius 150X88° DOOR BACK	5,7	R 1 766
<b>88 DEGREE IE BENDS (LONG RADIUS) DOOR BACK</b>				
20657		Eezi-Fit Bend IE Long Radius 100X88° DOOR BACK	5,6	R 1 054
<b>88 DEGREE IE SINGLE BRANCHES (JUNCTIONS) - RADIUS CURVE</b>				
20658		Eezi-Fit Branch Junction IE 100X100X88° Radius Curve	6,7	R 1 214
20659		Eezi-Fit Branch Junction IE 150X100X88° Radius Curve	8	R 2 050
<b>BOSS PIPES</b>				
20660		Eezi-Fit Single Boss Pipe Plain 100X50X88°	2,1	R 534
20661		Eezi-fit Double Boss Pipe Opposed Plain 100X50X88°	2,3	R 665

## Example: Assembly of Ensign Eezi-Fit Fittings





## VORTX Floor drains systems



Range of Inserts  
(removable bottle  
traps and filter  
baskets) available

Cast iron trapped and  
non-trapped floor  
gullies

Gratings



Cast iron square and round  
Floor gratings available in  
nickel, bronze and stainless  
steel, standard finish or  
polished

Inserts



Raising pieces



Range of raising pieces

Gully Bodies



Adaptors



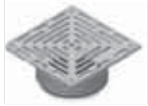
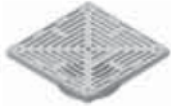






Full adaptor range to  
connect to smaller  
diameter pipework



### APPLICATION:

Floors: Type of grating chosen will depend on the floor finishings - e.g ceramic, concrete or vinyl surfaces. A trapped gully may be used to prevent foul air entering the buildings. The VortX range offers innovative new P and S trap designs that are lighter in weight and require less installation space than most traditional designs on the market. The depth of the structural slab and available space will dictate the selection of gullies, and the necessity for raising pieces and extension products. Installation with a damp proof membrane will require additional clamping collars.

# VORTX FLOOR DRAINS

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>SQUARE FLOOR GRATINGS (STANDARD STAINLESS STEEL FINISH)</b>				
20662		Square Grate 150X150 Stainless Steel, Standard Direct	1,20	R 1 035
20663		Square Grate 200X200 Stainless Steel, Standard Direct	2,80	R 1 885
20664		Square Grate 150X150 Stainless Steel, Standard Thread	1,20	R 995
20665		Square Grate 200X200 Stainless Steel, Standard Thread	2,80	R 1 807
<b>CIRCULAR FLOOR GRATINGS (STANDARD STAINLESS STEEL FINISH)</b>				
20666		Circular Grate 150 Stainless Steel, Standard Direct	1,50	R 1 215
20667		Circular Grate 150 Stainless Steel, Standard Thread	1,50	R 1 266
<b>CIRCULAR VINYL FLOOR GRATINGS (STANDARD STAINLESS STEEL FINISH)</b>				
20668		Circular Vinyl Grate 150 Stainless Steel, Standard Direct	2,10	R 1 730
20669		Circular Vinyl Grate 150 Stainless Steel, Standard Thread	2,10	R 1 770
<b>FLOOR GULLIES (SUMP BODIES)</b>				
20670		Medium 110mm Sump Body	2,40	R 321
<b>FLOOR GULLIES (SUMPLESS BODIES)</b>				
20671		Sumpless 110mm/NPSM Body	1,60	R 219
<b>CLAMPING RINGS (FOR ALL FLOOR BODIES)</b>				
20672		Gully Body Clamp Ring	0,90	R 136
<b>BSPT SPIGOT ADAPTORS</b>				
20673		BSPT 100 to 4 inch Spigot Adaptor	2,70	R 331

## VORTX FLOOR DRAINS

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>REDUCING BUSHES</b>				
20674		Reducing Bush 4x2 inch	1,10	R 273
<b>INSERTS - REMOVABLE BOTTLE TRAPS</b>				
20675		Removable 50mm ABS Bottle Trap	0,10	R 135
<b>INSERTS - FILTER BASKETS</b>				
20676		Filter Basket	0,20	R 353
<b>RAISING PIECES</b>				
20677		NPSM Raising Piece 20 to 40mm	0,80	R 161
20678		NPSM Raising Piece 40 to 95mm	1,50	R 277
20679		NPSM Raising Piece 95 to 140mm	2,00	R 356
<b>TRAPPED GULLIES</b>				
20680		P Trap Gully	5,60	R 1 232
20681		S Trap Gully	5,60	R 1 197

# FULL FLOW FLOOR AND ROOF OUTLETS

SAP Code	Product picture	Type	Weight (kg)	Size		DN	Ex-VAT Ex-Works
				Overall size	Height		
<b>FULL FLOW EARED ROOF OUTLETS THREADED WITH DUCTILE IRON FLAT GRATE (EXCLUDING uPVC THREADED ADAPTOR)</b>							
16399		150 X 180° Straight	16,4	375	150	150	R 1 590
<b>THREADED WITH DUCTILE IRON DOME GRATE (EXCLUDING uPVC THREADED ADAPTOR) EARED</b>							
16369		150 X 180° Straight	16,4	375	150	150	R 1 590
<b>FULL FLOW CENTRE BOLT OUTLETS THREADED WITH DUCTILE IRON DOME GRATE (EXCLUDING uPVC THREADED ADAPTOR)</b>							
16370		50 X 180° Straight	3,6	218	116	50	R 542
16356		80 X 180° Straight	7,2	300	160	80	R 706
16359		100 X 180° Straight	11,0	350	210	100	R 946
16374		50 X 90° Straight	3,6	300	121	50	R 607
16383		80 X 90° Straight	7,2	300	186	80	R 789
16385		100 X 90° Straight	11,5	350	255	100	R 1 061
16387		150 X 90° Straight	16,6	363	292	150	R 1 564
<b>THREADED WITH DUCTILE IRON FLAT GRATE (EXCLUDING uPVC THREADED ADAPTOR)</b>							
16402		50 X 180° Straight	3,6	218	72	50	R 542
16397		80 X 180° Straight	7,2	300	105	80	R 706
16398		100 X 180° Straight	11,0	350	125	100	R 946
16401		50 X 90°	3,6	199	77	50	R 607
16404		80 X 90°	7,2	300	131	80	R 820
16405		100 X 90°	12,3	350	170	100	R 1 061
16406		150 X 90°	17,4	363	207	150	R 1 700
<b>THREADED WITH DUCTILE IRON GRATE (EXCLUDING uPVC THREADED ADAPTOR)</b>							
16376		80mm Dia Two Way	8,9	200	200	80	R 1 195
16380		100mm Dia Two Way	9,2	200	200	100	R 1 050

PVC adaptors are now sold separately. Please refer to page 16.

Price list effective the 1st August 2018

# HYDROCLASS



Drinking water, irrigation and raw water supply

## A new range in compliance with ISO 2531:2009 and EN 545:2010

Pipes from DN80 - DN 300: Class 40 (C40)- PFA 40 bar | DN 350 to 600 : Class 30 (C30)- PFA 30 bar  
For specific diameters and pressure classes, please contact us.

## High performance coatings and linings

- External coating > 200 g/m<sup>2</sup> metallic zinc with synthetic paint
  - > In compliance with potable water standards (junctions spigot-socket)
- Internal lining > Blast furnace slag cement (BFSC) mortar lining
  - > In compliance with potable water standards

For specific coating or lining information, please contact us.  
Repair materials for cement mortar linings and external coatings are available on request.

## Leak tight gaskets for pipes

- STANDARD gasket, in compliance with ISO 4633. For specific gaskets and anchored systems, please contact us.
- Lubricants for pipe assembly available on request

- One STANDARD gasket per socket

## Unique level of certification

In compliance with ISO 2531 and EN 545: Third party certification.  
In compliance with ISO 9001:2008: Third party certification.  
In compliance with ISO 14001:2004: Third party certification.

## HYDROCLASS FITTINGS

The HYDROCLASS® solution has the most comprehensive range of fittings available in the market, offering:

- **Junctions**
  - > Push-on joints
  - > Fixed flanges
- **Leak tight gaskets for fittings**
  - > One TYTON gasket per socket
  - > Flanged gasket with internal metal reinforcements
- **Type of fittings**
  - > Bends, tees, tapers, flanged-spigot pieces, flanged-socket pieces, blank flanges.
- **High performance coatings**
  - > Internal and external 250 µm blue fusion bonded epoxy, in compliance with EN 14901.

**Prices for flanged fittings do not include flange gaskets, bolts and nuts.**

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>HYDROCLASS PIPES</b>				
22025		PIPE HYD DN100 BFSC 200g STD C40 5.5M	88	R 2 429
22026		PIPE HYD DN150 BFSC 200g STD C40 5.5M	133	R 3 671
22027		PIPE HYD DN200 BFSC 200g STD C40 5.5M	181	R 4 996
22028		PIPE HYD DN250 BFSC 200g STD C40 5.5M	253	R 6 983
19571		PIPE HYD DN300 BFSC 200g STD C40 5.75M	323,71	R 8 311
22029		PIPE HYD DN350 BFSC 200g STD C30 5.75M	407	R 11 233
19572		PIPE HYD DN400 BFSC 200g STD C30 5.7M	465,88	R 11 776
19573		PIPE HYD DN500 BFSC 200g STD C30 5.75M	639,57	R 16 608
22030		PIPE HYD DN600 BFSC 200g STD C30 5.75M	867	R 20 315
<b>FLANGED SPIGOT</b>				
16698		FLANGED SPIGOT DN200	22,5	R 2 396
16700		FLANGED SPIGOT DN250	31,5	R 3 354
16703		FLANGED SPIGOT DN300	42	R 4 471
<b>FLANGED SOCKET</b>				
16706		FLANGED SOCKET DN100	9,1	R 969
16710		FLANGED SOCKET DN150	15,3	R 1 629
16714		FLANGED SOCKET DN200	20	R 2 130
16721		FLANGED SOCKET DN300	41,5	R 4 418

**For information on other diameters, please contact us.**

Price list effective the 1st August 2018



## HYDROCLASS FITTINGS



SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>ALL FLANGED TEES</b>				
19827		DN300 AL FL T DN0300 PN16 250 µm	109,6	R 10 517
19829		DN400 AL FL T DN0400 PN16 250 µm	173,2	R 16 622
19903		DN500 AL FL T DN0500 PN16 250 µm	304	R 9 021
19915		DN600 AL FL T DN0600 PN16 250 µm	519	R 49 806
<b>DOUBLE FLANGED BENDS 45 DEG</b>				
19828		DN300 DB FL BEND 45° PN16 250 µm	74	R 8 541
19830		DN400 DB FL BEND 45° PN16 250 µm	102	R 9 788
19900		DN500 DB FL BEND 45° PN16 250 µm	174	R 17 187
19908		DN600 DB FL BEND 45° PN16 250 µm	264	R 25 644
<b>DOUBLE SOCKET BENDS</b>				
16709		DN100 DB SO BEND 11.25° TYT 205 µm	7,8	R 851
16708		DN100 DB SO BEND 22.50° TYT 205 µm	8,1	R 884
16713		DN150 DB SO BEND 11.25° TYT 205 µm	13,4	R 1 463
16712		DN150 DB SO BEND 22.50° TYT 205 µm	14,2	R 1 550
16717		DN200 DB SO BEND 11.25° TYT 205 µm	19,6	R 2 139
16716		DN200 DB SO BEND 45° TYT 205 µm	24,5	R 2 673
16715		DN200 DB SO BEND 90° TYT 205 µm	30,5	R 3 328
19820		DN300 DB SO BEND 11.25° TYT 250 µm	40,4	R 4 504
19821		DN300 DB SO BEND 22.50° TYT 250 µm	40,5	R 5 853
19822		DN300 DB SO BEND 45° TYT 250 µm	51,6	R 4 952
19823		DN300 DB SO BEND 90° TYT 250 µm	65	R 6 238
19834		DN400 DB SO BEND 11.25° TYT 250 µm	53	R 5 087
19835		DN400 DB SO BEND 22.50° TYT 250 µm	60	R 5 758
19836		DN400 DB SO BEND 45° TYT 250 µm	82	R 7 869
19837		DN400 DB SO BEND 90° TYT 250 µm	105	R 10 199
19891		DN500 DB SO BEND 11.25° TYT 250 µm	87	R 8 927
19892		DN500 DB SO BEND 22.50° TYT 250 µm	96	R 9 782
19893		DN500 DB SO BEND 45° TYT 250 µm	120	R 12 061
19894		DN500 DB SO BEND 90° TYT 250 µm	183	R 18 042
19904		DN600 DB SO BEND 11.25° TYT 250 µm	120	R 11 516
19905	DN600 DB SO BEND 22.50° TYT 250 µm	150	R 11 902	
19906	DN600 DB SO BEND 45° TYT 250 µm	189	R 17 778	
19907	DN600 DB SO BEND 90° TYT 250 µm	386	R 37 493	
<b>DOUBLE FLANGED TAPERS</b>				
19812		DN200 DB FL TAPER DN150 PN16 250 µm	21,8	R 2 737
19813		DN250 DB FL TAPER DN150 PN16 250 µm	52	R 5 604
19814		DN250 DB FL TAPER DN200 PN16 250 µm	47	R 5 129
19824		DN300 DB FL TAPER DN200 PN16 250 µm	58	R 6 175
19825		DN300 DB FL TAPER DN250 PN16 250 µm	72	R 7 504
19826		DN300 DB FL TAPER DN100 PN16 250 µm	34,5	R 3 311
19831		DN400 DB FL TAPER DN200 PN16 250 µm	48,5	R 4 656
19832		DN400 DB FL TAPER DN250 PN16 250 µm	69,5	R 6 670
19833		DN400 DB FL TAPER DN300 PN16 250 µm	68	R 6 526
19901		DN500 DB FL TAPER DN300 PN16 250 µm	112,5	R 11 348
19902		DN500 DB FL TAPER DN400 PN16 250 µm	152	R 14 587
19914		DN600 DB FL TAPER DN400 PN16 250 µm	164	R 16 238
<b>DOUBLE SOCKET TEES WITH FLANGED BRANCH</b>				
19815		DN300 DB SO T TYT FL DN100 PN16 250 µm	54	R 5 183
19816		DN300 DB SO T TYT FL DN150 PN16 250 µm	56,8	R 5 452
19817		DN300 DB SO T TYT FL DN200 PN16 250 µm	63,1	R 6 057
19818		DN300 DB SO T TYT FL DN250 PN16 250 µm	88,4	R 8 484
19819		DN300 DB SO T TYT FL DN300 PN16 250 µm	82,4	R 7 909
19838		DN400 DB SO T TYT FL DN100 PN16 250 µm	65	R 6 315
19839		DN400 DB SO T TYT FL DN150 PN16 250 µm	92	R 8 830
19840		DN400 DB SO T TYT FL DN200 PN16 250 µm	81	R 7 868
19841		DN400 DB SO T TYT FL DN250 PN16 250 µm	129	R 11 390
19889		DN400 DB SO T TYT FL DN300 PN16 250 µm	106	R 10 173
19890		DN400 DB SO T TYT FL DN400 PN16 250 µm	136	R 13 052
19895		DN500 DB SO T TYT FL DN150 PN16 250 µm	137	R 13 071
19896		DN500 DB SO T TYT FL DN200 PN16 250 µm	117,5	R 11 414
19897		DN500 DB SO T TYT FL DN250 PN16 250 µm	165	R 16 518
19898		DN500 DB SO T TYT FL DN300 PN16 250 µm	179	R 17 296
19909		DN600 DB SO T TYT FL DN150 PN16 250 µm	148	R 14 376
19911		DN600 DB SO T TYT FL DN250 PN16 250 µm	160	R 15 542
19912		DN600 DB SO T TYT FL DN300 PN16 250 µm	178	R 17 082
19913		DN600 DB SO T TYT FL DN600 PN16 250 µm	322	R 30 901

For information on other diameters, please contact us.

Price list effective the 1st August 2018

# INTEGRAL

## Sewage network pipes and fittings



DN	Lu	Class	e	DE	DI	P	B	Mass	PFA
mm	m		mm	mm	mm	mm	mm	Kg/m	bar
100	5.5	Integral	5	118	120.5	88	163	15.9	40
150	5.5	Integral	5	170	172.5	94	217	23.3	40
200	5.5	Integral	5	222	224.5	100	278	30.8	40
250	5.5	Integral	5.3	274	276.5	105	336	40.1	38
300	5.5	Integral	5.6	326	328.5	110	393	50.2	35

### INTEGRAL PIPES

Ductile iron socket and spigot pipes are centrifugally cast in accordance with the international Standard ISO 7186:1996 and the European standard EN 598:2009, and are "INTEGRAL" type.

The water tightness is ensured by push-on joint Tyton.

Lubricants for pipe assembly available on request. One TYTON gasket per socket. Repair materials for cement mortar linings and external coatings are available on request.

Centrifugally cast pipes are submitted in factory to a hydrostatic test lasting at least 10s, under a minimal hydrostatic pressure of 32 Bar for pipes DN80 to DN300.

Pipe thickness is in accordance with International Standard ISO 7186:1996 and/or with European Standard EN 598:2009.

#### Internal protection:

Pipes are internally lined with an aluminous cement mortar in accordance with International Standard ISO 4179:2005. The thickness of the aluminous cement mortar is 4mm (nominal) and 2.5mm (minimum value at one point) for pipes DN80 to DN300.

#### External protection:

Pipes are externally protected with a metallic zinc coating in accordance with the International Standard ISO 8179-1:2004. The quantity of zinc applied on our pipes is 200 g/m<sup>2</sup> instead of the 130 g/m<sup>2</sup> required by the standard. Following zinc application, pipes are coated with an epoxy paint or equivalent. The mean thickness of the epoxy paint is at least 70 µm, in accordance with the International Standard ISO 8179-1:2004.

#### Spigot and socket ends protection:

The external surface of spigots and the internal surface of sockets are coated with epoxy paint. The mean thickness is 150 µm and the minimum thickness is 100 µm.

### INTEGRAL FITTINGS

Ductile iron fittings are sand cast in accordance with the International Standard ISO 7186:1996 and the European standard EN 598:2009.

Fittings are submitted in factory to a hydrostatic test under a minimal pressure of 1 bar, in conformity with the International Standards ISO 7186:1996 and EN 598:2009.

The water tightness is ensured by push-on joint Tyton. One TYTON gasket per socket.

The thickness of the different fittings is in accordance with International Standard ISO 2531:2009 and the European standard EN 598:2009.

Fittings are internally and externally protected with an epoxy coating to a thickness of 250 µm.

Socketed joints are push-on type. The gasket is made of NBR (nitrile) elastomer or equivalent in accordance with the International Standard ISO 4633-2002.

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>INTEGRAL PIPES</b>				
19575		DN 100 SEWAGE TYT 200g/m <sup>2</sup> 5.5M	88	R 2 752
19578		DN 250 SEWAGE TYT 200g/m <sup>2</sup> 5.5M	226,60	R 6 772
19579		DN 300 SEWAGE TYT 200g/m <sup>2</sup> 5.5M	283,80	R 8 419
22031		DN 150 SEWAGE TYT 200g/m <sup>2</sup> 5.5M	122	R 4 081
22032		DN 200 SEWAGE TYT 200g/m <sup>2</sup> 5.5M	166	R 5 026

**For information on other diameters, please contact us.**

Price list effective the 1st August 2018



# INTEGRAL FITTINGS

SAP Code	Product picture	Description	Weight (kg)	Ex-VAT Ex-Works
<b>DOUBLE SOCKET BENDS</b>				
19916		DN 100 DB SOCKET BEND 11.25°	8	R 767
19917		DN 100 DB SOCKET BEND 22.50°	7,9	R 737
19918		DN 100 DB SOCKET BEND 45°	8,6	R 819
19919		DN 100 DB SOCKET BEND 90°	9,7	R 884
19920		DN 150 DB SOCKET BEND 11.25°	12,8	R 1 174
19921		DN 150 DB SOCKET BEND 22.50°	13,2	R 1 208
19922		DN 150 DB SOCKET BEND 45°	14,8	R 1 302
19923		DN 150 DB SOCKET BEND 90°	17,6	R 1 531
19924		DN 200 DB SOCKET BEND 11.25°	18,6	R 1 614
19925		DN 200 DB SOCKET BEND 22.50°	19,5	R 1 688
19926		DN 200 DB SOCKET BEND 45°	23	R 2 037
19927		DN 200 DB SOCKET BEND 90°	28,4	R 2 416
19928		DN 250 DB SOCKET BEND 11.25°	27,5	R 2 419
19929		DN 250 DB SOCKET BEND 22.50°	30,5	R 2 673
19930		DN 250 DB SOCKET BEND 45°	31,3	R 2 740
19931		DN 250 DB SOCKET BEND 90°	50	R 4 320
19932		DN 300 DB SOCKET BEND 45°	51,6	R 4 952
19933		DN 300 DB SOCKET BEND 90°	65	R 6 238
19934		DN 300 DB SOCKET BEND 11.25°	40,4	R 4 504
19935	DN 300 DB SOCKET BEND 22.50°	40,5	R 5 853	

For information on other diameters, please contact us.

## VALVES

SANS 664 PN10/16 NON-RISING STEM SOCKET ENDED RSV GATE VALVE	SANS 664 PN10/16 FLANGED RSV GATE VALVE
<ol style="list-style-type: none"> <li><b>Bolted Bonnet:</b> Non Rising Stem, PVC Push-on</li> <li><b>Design:</b> Conforms to SANS 664 Part 1 and 3</li> <li><b>Working Pressure:</b> 1.0MPa and 1.6MPa</li> <li><b>Open and Close torque list below:</b> DN50-DN100=150Nm DN125=190Nm DN150=225Nm DN200=300Nm DN250=375Nm DN300=450Nm</li> <li><b>Working temperature:</b> 0-50°C</li> <li><b>Coating:</b> Electrostatically applied fusion-bonded epoxy 0.3-0.5µm</li> <li>All connection bolts holes are waxed</li> </ol>	<ol style="list-style-type: none"> <li><b>Bolted Bonnet:</b> Non Rising Stem, Flanged ends</li> <li><b>Design:</b> Conforms to SANS 1123:2011</li> <li><b>Working Pressure:</b> 1.0MPa and 1.6MPa.</li> <li><b>Open and Close torque list below:</b> DN50-DN100=150Nm DN150=225Nm DN200=300Nm DN250=375Nm DN300=450Nm</li> <li><b>Working temperature:</b> 0-50°C</li> <li><b>Coating:</b> Electrostatically applied fusion-bonded epoxy 0.3-0.5µm</li> <li>All connection bolts holes are waxed.</li> </ol>

SAP Code LHC	SAP Code RHC	Product picture	Description	Ex-VAT Ex-Works
<b>SOCKET ENDED RSV GATE VALVE</b>				
20934	20942		PN10/PN16 (Socketed) with cap top DN63	R 936
20935	20943		PN10/PN16 (Socketed) with cap top DN75	R 1 239
20936	20944		PN10/PN16 (Socketed) with cap top DN90	R 1 591
20937	20945		PN10/PN16 (Socketed) with cap top DN110	R 1 756
20938	20946		PN10/PN16 (Socketed) with cap top DN160	R 3 255
20939	20947		PN10/PN16 (Socketed) with cap top DN200	R 5 586
20940	20948		PN10/PN16 (Socketed) with cap top DN250	R 7 928
20941	20949		PN10/PN16 (Socketed) with cap top DN315	R 11 151
<b>FLANGED RSV GATE VALVE</b>				
20950	20957		PN10/PN16 (Flanged) with cap top DN50	R 1 161
20951	20958		PN10/PN16 (Flanged) with cap top DN80	R 1 607
20952	20959		PN10/PN16 (Flanged) with cap top DN100	R 2 010
20953	20960		PN10/PN16 (Flanged) with cap top DN150	R 3 465
20954	20961		PN10/PN16 (Flanged) with cap top DN200	R 5 985
20955	20962		PN10/PN16 (Flanged) with cap top DN250	R 8 264
20956	20963		PN10/PN16 (Flanged) with cap top DN300	R 13 188

For information on other diameters, please contact us.



# OTHER PRODUCT SERVICES



## Badging

Labelling per region or purpose



## Personalisation



## Harmonise & blend in



## Badging in color



Color by PAM is a new personalisation proposition for ductile iron access covers and gratings. Prepared with a protective metallic underlay, the 140 RAL powder colours are fusion-bonded, this process ensures an accurate and durable coloring (110 colour options).



These products are made to order, please contact your local branch for specialized colors and/or badging.

Price list effective the 1st August 2018












COMING SOON!

# TRITTON

REINFORCE YOUR PVC NETWORK  
DN/OD 63-315  
DUCTILE CAST IRON FITTING FOR PVC TUBES



<b>Steel Floor Gullies</b> 	<b>Light/Heavy Duty Gullies</b> 	<b>Slot Drains</b> 
<b>Section 2 - Vinyl Finish Applications</b>		
<b>Vinyl Floor Gullies</b> 18 	<b>Kitchen Floor Gullies</b> 24 	<b>Channels</b> 25 
<b>Channels &amp; Gullies</b>		
<b>Pressed Grate</b> 28 	<b>Bar Grate</b> 29 	<b>Antislip</b> 29 



FOR FURTHER INFORMATION, PLEASE CONTACT YOUR LOCAL BRANCH

(Overview Below – For the complete Customer Service Charter, please contact your local branch)



## HEALTH & SAFETY

All visitors should receive our health and safety rules on arrival at any of our Saint-Gobain PAM sites.



## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Personal Protective Equipment is required to enter all Saint-Gobain PAM stockyards.



## VALUE-ADDED SERVICES

We offer Product Training on request.

We offer Technical information on request e.g. Datasheets and certifications.



## LOADING & UNLOADING SAFETY REQUIREMENTS

Loading to be done in pre-allocated loading zone. Vehicles have to be road worthy and capable to handle the required load. Saint-Gobain Pam reserve the right not to load a vehicle that is deemed to be unsuitable.



## ORDERING

Orders can be placed via e-mail, EDI or fax. For customized products or services requirements contact your local branch. (refer to page 1 of Pricelist for contact information)



## OUR LEAD TIMES

Lead times will be confirmed in the Order Acknowledgment. For Out of stock items, an estimated time of arrival will be advised.

We strive to deliver all orders on time, in full and error-free.



## MADE-TO-ORDER (MTO)

Special made-to-order (MTO) items will be subject to our standard conditions of supply.

A 50% deposit is required for all MTO products.

A lead time for MTO products are depending on complexity of product/design.



## COLLECTION

Goods can be collected at our Pretoria, Port Elizabeth, Kwazulu-Natal and Cape Town branches. Refer to Page 1 of our price list for the relevant contact numbers.



## COMPLAINTS

Should you have any complaints, please contact your local office.



## REFUND/ RETURNS

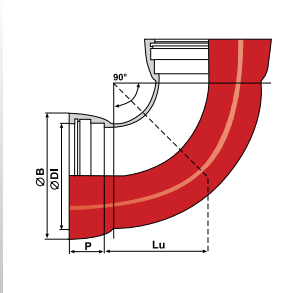
All returned materials are subject to a handling fee of 10% of the invoiced value

- Ductile iron pipes and fittings are non-returnable
- Unless agreed otherwise, the transport of the materials is at Customer's own expense
- A credit note will be issued provided that all following conditions are met:
  - The returned materials are in good condition, complete with accessories and have not been altered
  - The returned materials have been invoiced in the last 6 months preceding their return
  - The returned materials production has not been discontinued
  - The materials are returned with the corresponding documentation (copy of invoice and/or POD)
  - The returned materials are not materials that benefited from special pricing / promotion

10 000m<sup>2</sup> of stock available at our four branches,  
delivered to your doorstep.



Handling operations at the Saint-Gobain PAM Pretoria West stockyard.



**Our products are internationally accredited**

- Pretoria West: +27 (0)12 380 4692/4693
- Cape Town: +27 (0)21 551 5766/5816
- Port Elizabeth: +27 (0)41 451 3556
- Durban: +27 (0)31 700 2519

Saint-Gobain PAM Head Office  
No. 1 Shale Road, N1 Business Park, Cnr. Old Johannesburg & Tlokwa Roads,  
Kosmosdal Ext. 7, Samrand  
+27 12 657 2930 • ZAPAMSales@saint-gobain.com

