ORCA DRAIN

Polymer concrete channel range

Industrial Cast Iron

AUSTRALIAN MADE

ORCA CIVIL PRODUCTS

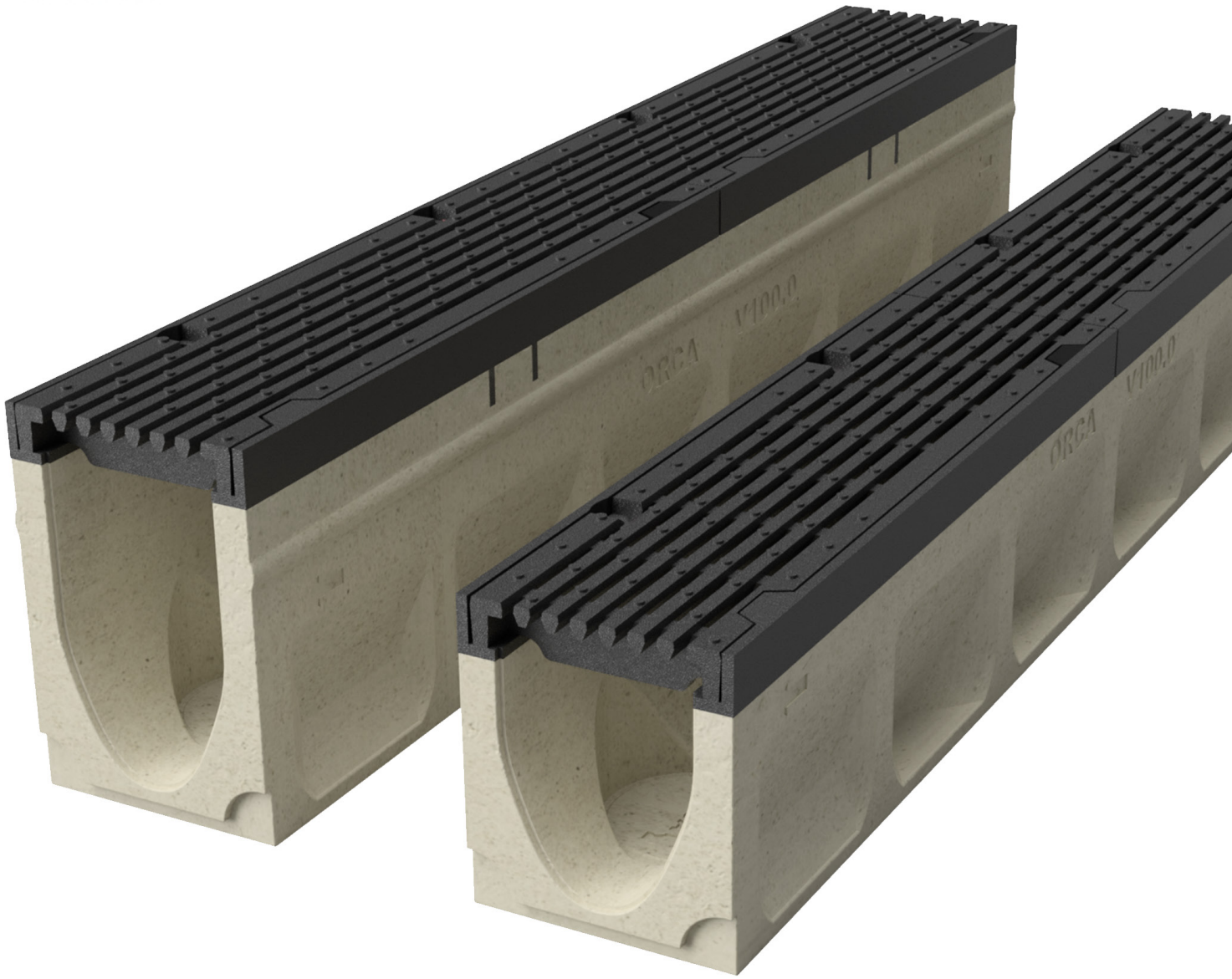
www.steelandtube.co.nz

ORCA DRAIN

Industrial Cast Iron

CV100 Polymer concrete channel range

steel&tube

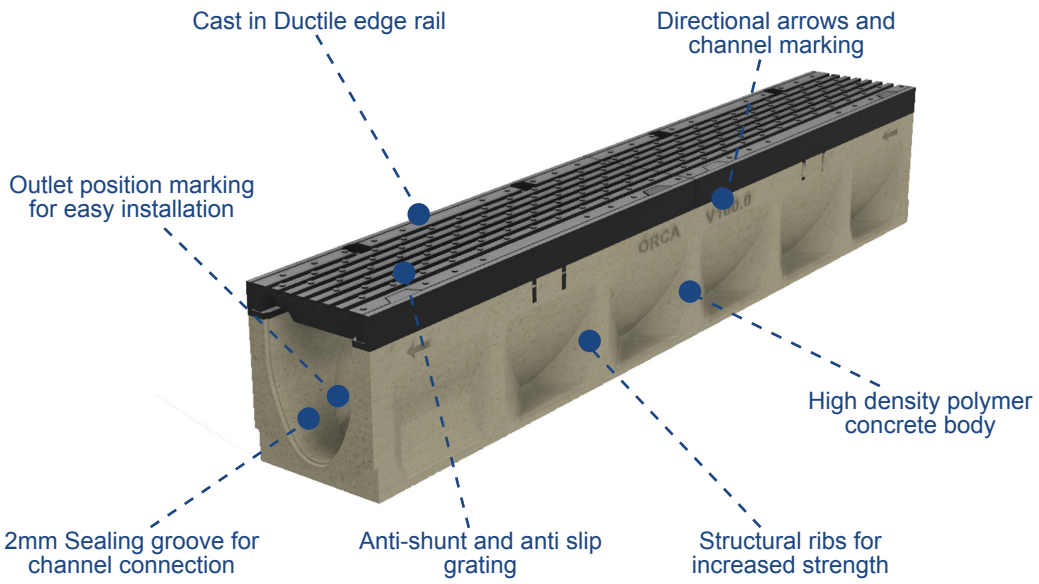


AUSTRALIAN MADE

ORCA CIVIL PRODUCTS

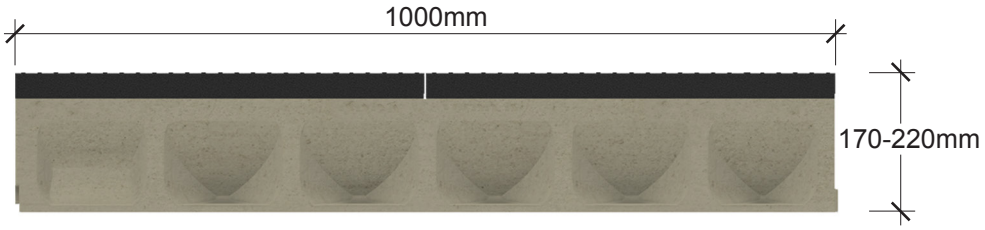
ORCA CV100

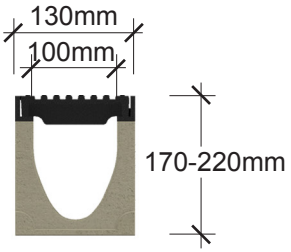
Ductile edge rail polymer concrete channel system

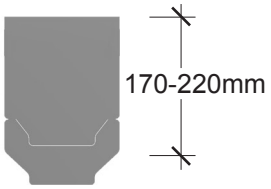


ASS3996:2006 Load Rating Guide

- Class A Extra Light
- Class B Light
- Class C Medium
- Class D Heavy
- Class E Extra Heavy E
- Class F Extra Heavy F
- Class G Extra Heavy G

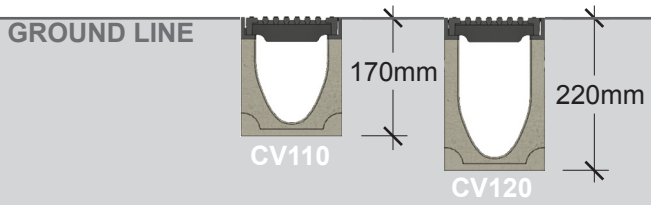






Orca CV100 Series–Ductile edge rail polymer concrete channel,100mm C/O, Class G

Name	CCP Part No.	Polymer concrete channel type	Class Load	Width C/O(mm)	Length O/A(mm)	Start depth (mm)	End depth (mm)	Cross sectional open area(mm²)	Weight (kg)
CV110	600725	CV110.0 channel, 100mm C/O x 170 O/A deep cast edge, Class G	**G900**	100	1000	170	170	10592	21
CV120	600747	CV120.0 channel, 100mm C/O x 220 O/A deep cast edge, Class G	**G900**	100	1000	220	220	15592	23



Orca Polymer Concrete Properties

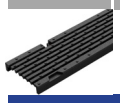
Orca Drain CV100 series is manufactured from corrosion resistant polymer concrete with cast in ductile iron edge rails. Orca polymer concrete is non flammable, frost proof and resistant to weathering and diluted acids and alkali's.

Compressive Strength: 95 MPa
Water Absorption: 0 - 0.06%
Density: 2300 kg/m3
Mannings Roughness: n=0.011

Orca Drain CV100 grates lead the industry in design and quality. CV100 channel grates are engineered to meet the following standards:

AS3996:2006 Access covers and grates
AS4586:2013 Slip resistance of new pedestrian surfaces
AS1428.1 Design for access and mobility

Grate

Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Per metre	Material	Weight (kg)
	**G125**	G125	Ductile iron heelguard grate suit CV100, Class G	**G900**	100	500	7	13300	Ductile	9

Accessories

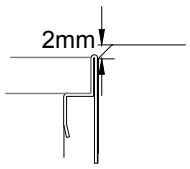
Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Per metre	Material	Weight (kg)
	600793	600793	End Cap multi-depth suit CV110 and CV120	-	100	220	-	-	Galv	0.1
	600995	600995	M10 SS bolt set per meter	-	-	-	-	-	SS	0.1

Installation Detail

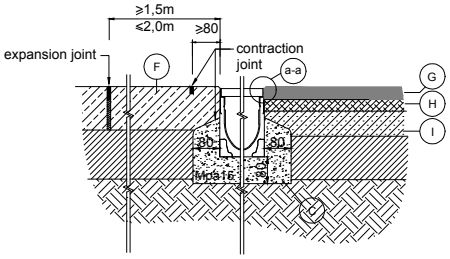
Legend

A	Pavers	E	Earth	I	Road base
B	Sand	F	Concrete	J	Sitting compound
C	Concrete haunch	G	Asphalt		
D	Sub base	H	Base course		

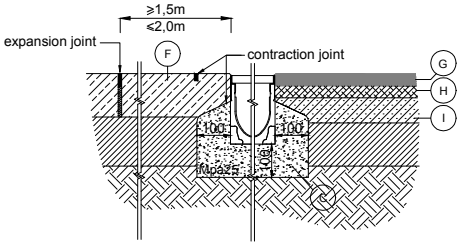
Detail a-a



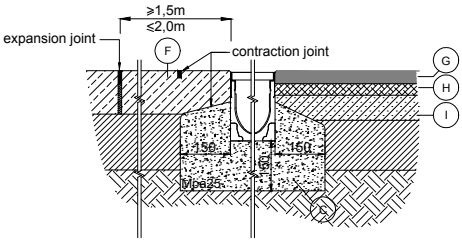
Class A
Extra Light



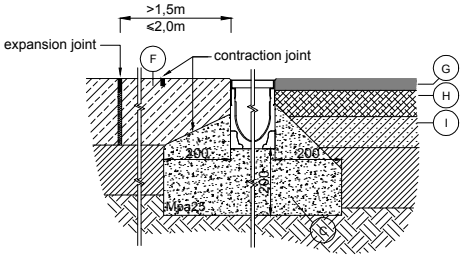
Class B
Light



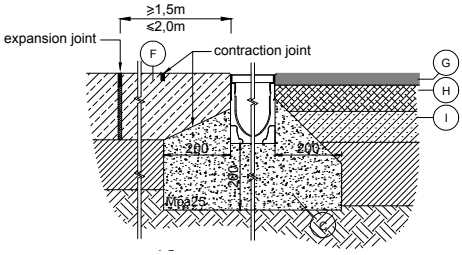
Class C
Medium



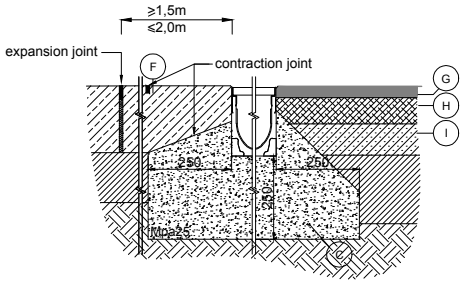
Class D
Heavy



Class E
Extra Heavy E



Class G
Extra Heavy G

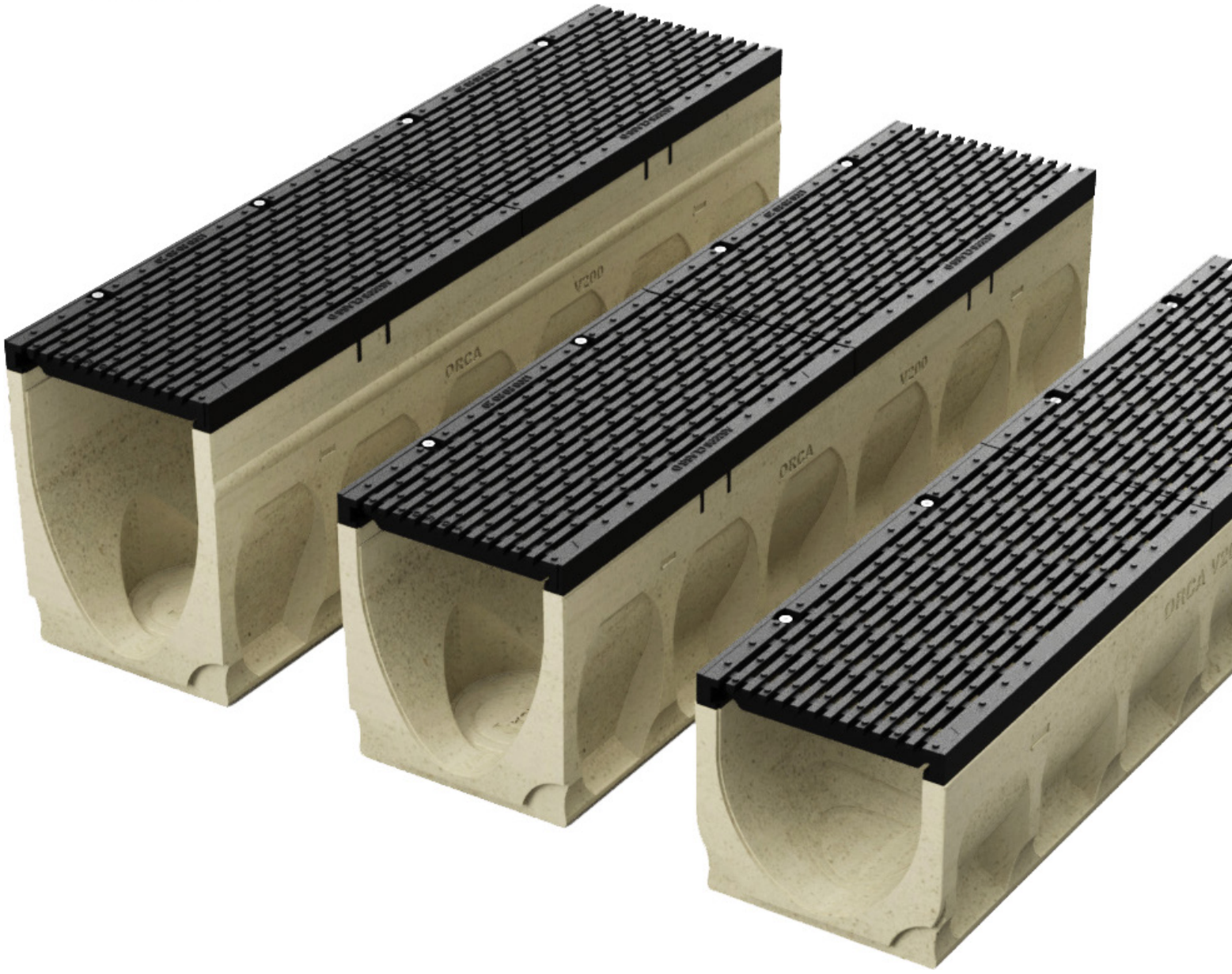


ORCA DRAIN

Industrial Cast Iron

CV200 Polymer concrete channel range

steel&tube

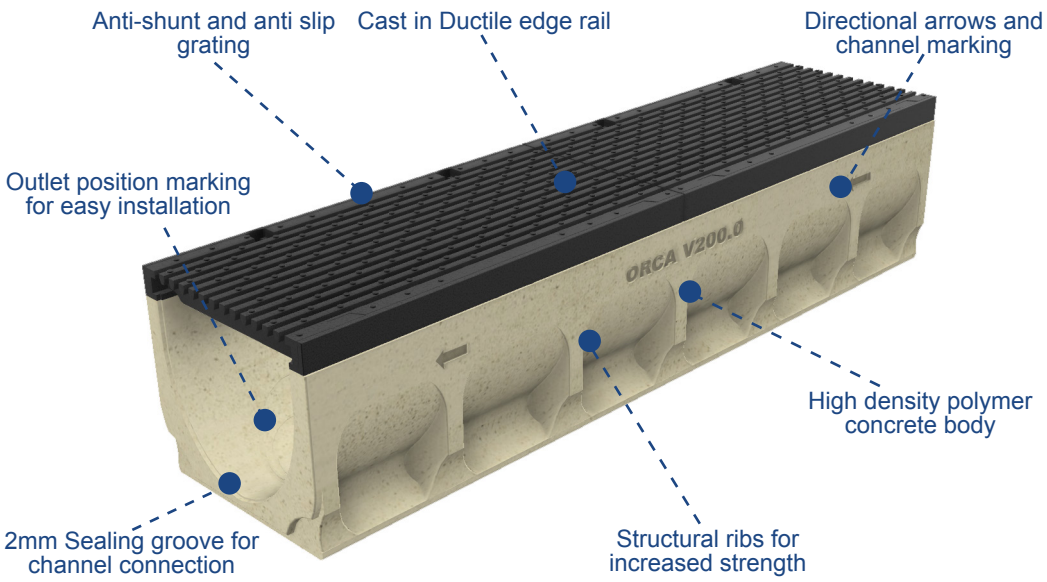


AUSTRALIAN MADE

ORCA CIVIL PRODUCTS

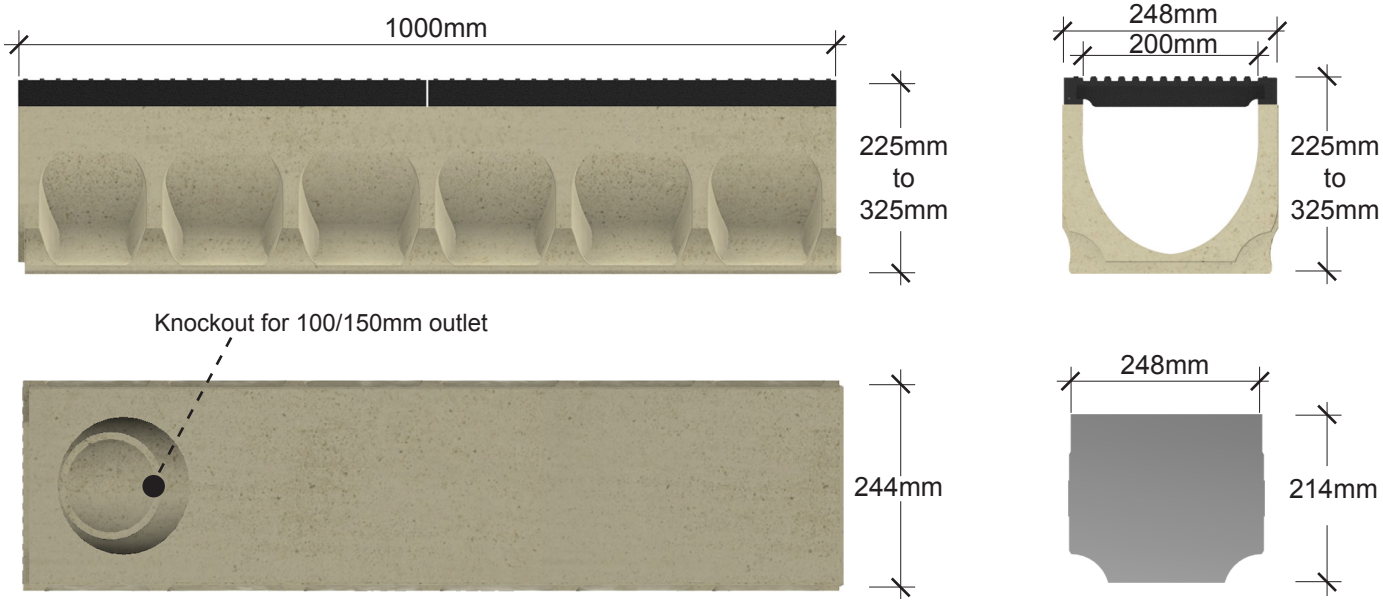
ORCA CV200

Ductile edge rail polymer concrete channel system



ASS3996:2006 Load Rating Guide

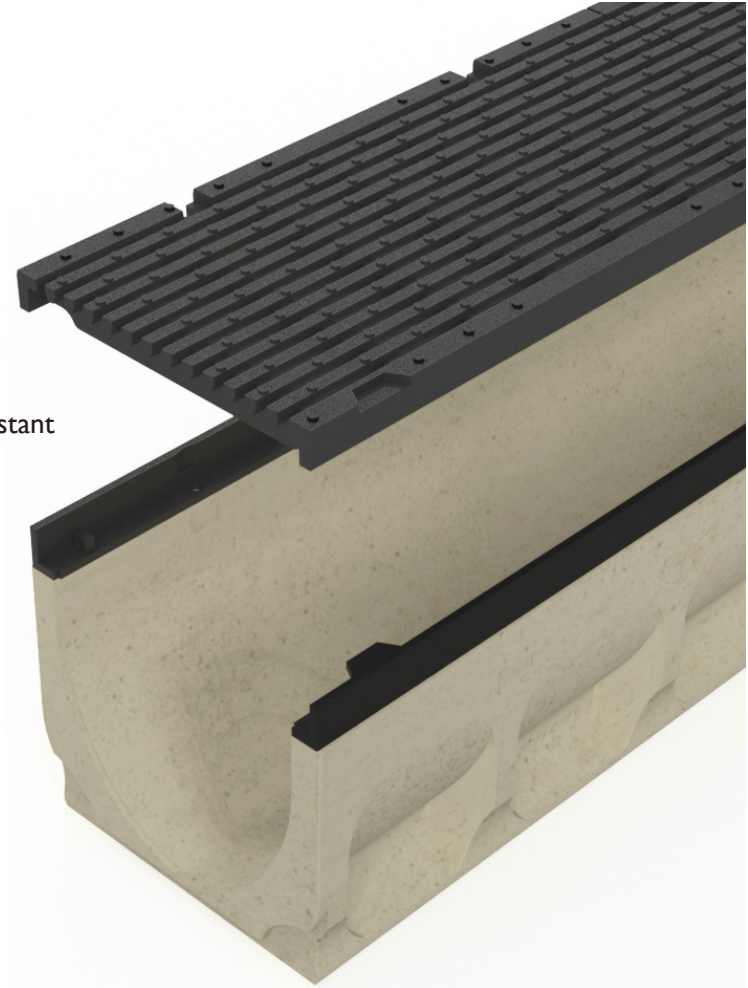
- Class A Extra Light
- Class B Light
- Class C Medium
- Class D Heavy
- Class E Extra Heavy E



Orca CV200 Series–Ductile edge rail polymer concrete channel,200mm C/O, Class G

Name	CCP Part No.	Polymer concrete channel type	Class Load	Width C/O(mm)	Length O/A(mm)	Start depth (mm)	End depth (mm)	Cross sectional open area(mm²)	Weight (kg)
CV200	600800	CV200 channel, 200mm C/O x 225 O/A deep cast edge	**E400**	200	1000	225	225	29386	35
CV210	600825	CV210 channel, 200mm C/O x 275 O/A deep cast edge	**E400**	200	1000	275	275	36713	44
CV220	600847	CV220 channel, 200mm C/O x 325 O/A deep cast edge	**E400**	200	1000	325	325	38267	49

Orca Polymer Concrete Properties



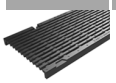
Orca Drain CV200 series is manufactured from corrosion resistant polymer concrete with cast in ductile iron edge rails. Orca polymer concrete is non flammable, frost proof and resistant to weathering and diluted acids and alkali's.

Compressive Strength: 95 MPa
Water Absorption: 0 - 0.06%
Density: 2300 kg/m3
Mannings Roughness: n=0.011

Orca Drain CV200 grates lead the industry in design and quality. CV200 channel grates are engineered to meet the following standards:

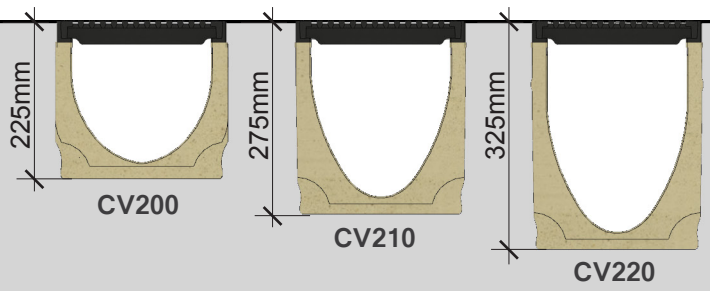
AS3996:2006 Access covers and grates
AS4586:2013 Slip resistance of new pedestrian surfaces
AS1428.1 Design for access and mobility

Grate

Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Per metre	Material	Weight (kg)
	**G225**	G225	Ductile iron heelguard grate suit CV200, Class E	**E400**	200	500	7	84115	Ductile	9

Accessories

Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Pre meter	Material	Weight (kg)
	600292	600292	End Cap suit CV200	**-**	200	225	-	-	GMG	0.1
	600995	600995	M10 SS bolt set	**-**	-	-	-	-	SS	0.1

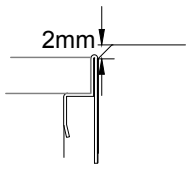


Installation Detail

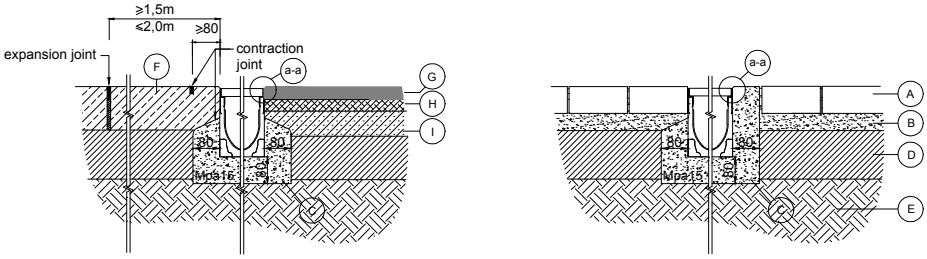
Legend

A	Pavers	E	Earth	I	Road base
B	Sand	F	Concrete	J	Sitting compound
C	Concrete haunch	G	Asphalt		
D	Sub base	H	Base course		

Detail a-a



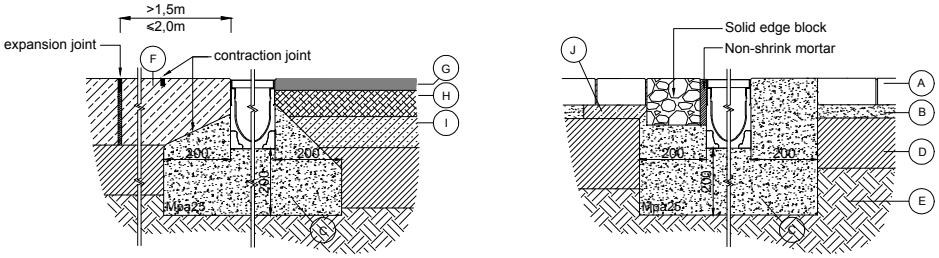
Class A
Extra Light



Class B
Light

Class C
Medium

Class D
Heavy



Class E
Extra Heavy E

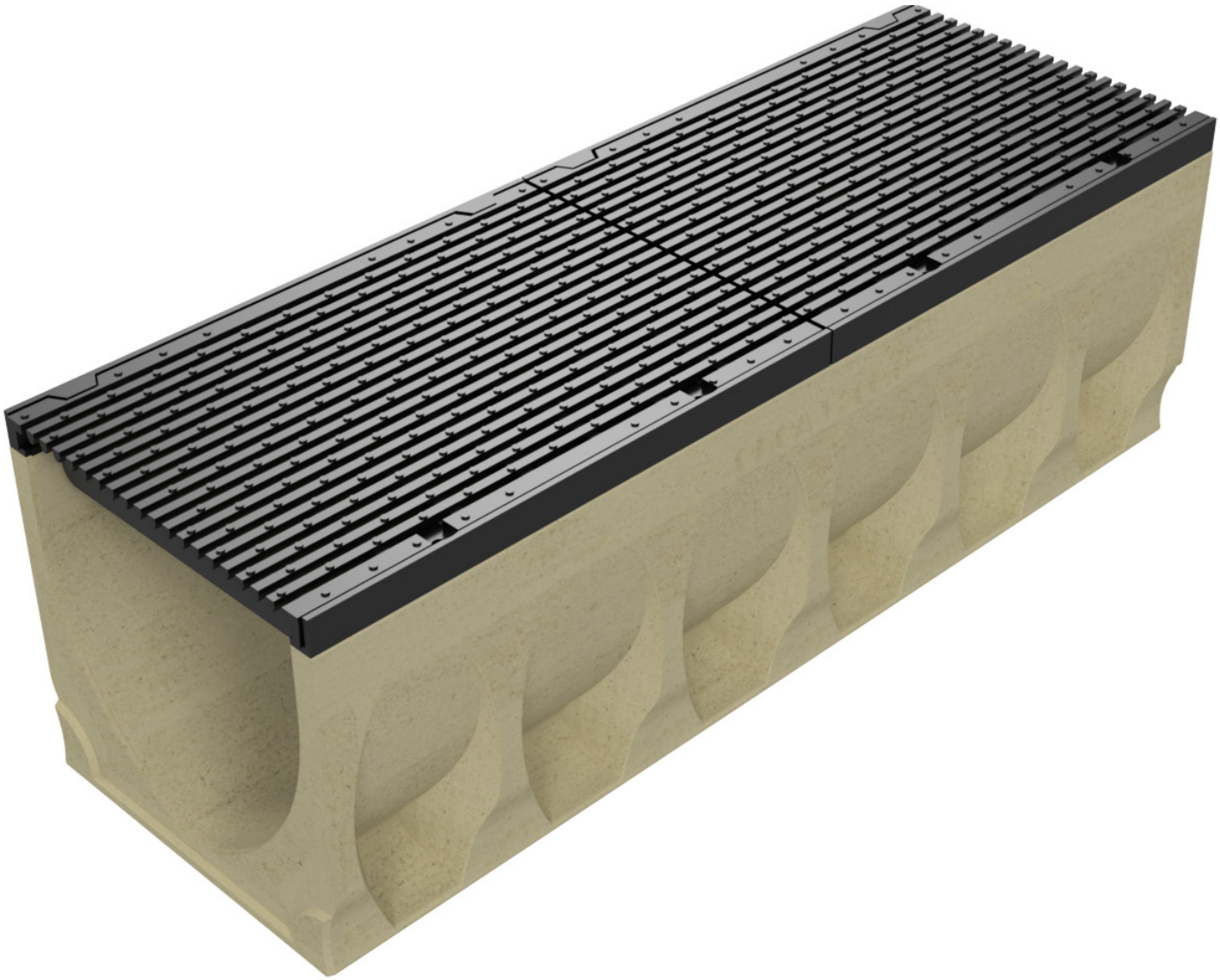
Class G
Extra Heavy G

ORCA DRAIN

Industrial Cast Iron

CV300 Polymer concrete channel range

steel&tube

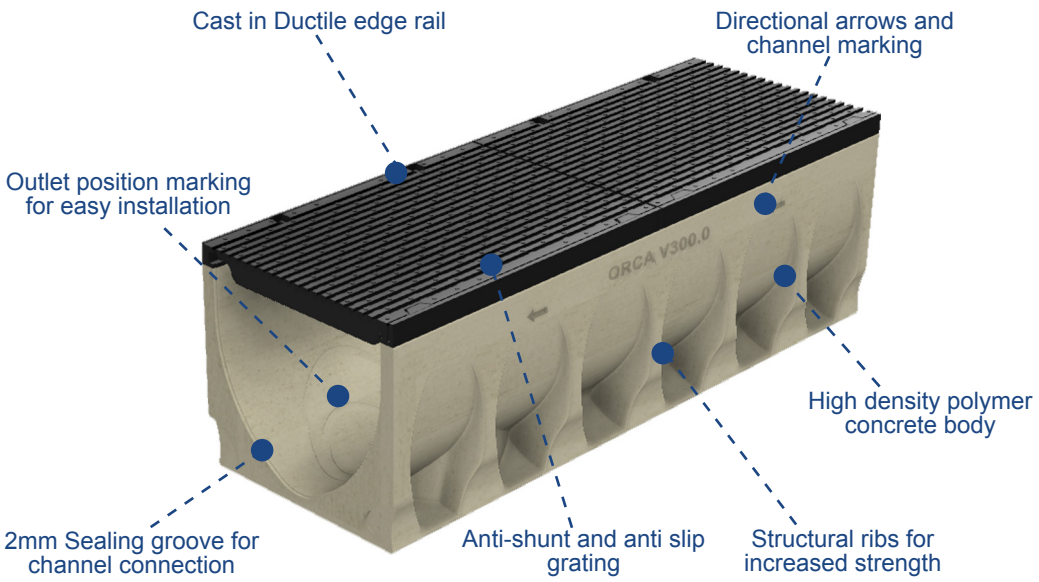


AUSTRALIAN MADE

ORCA Civil Products

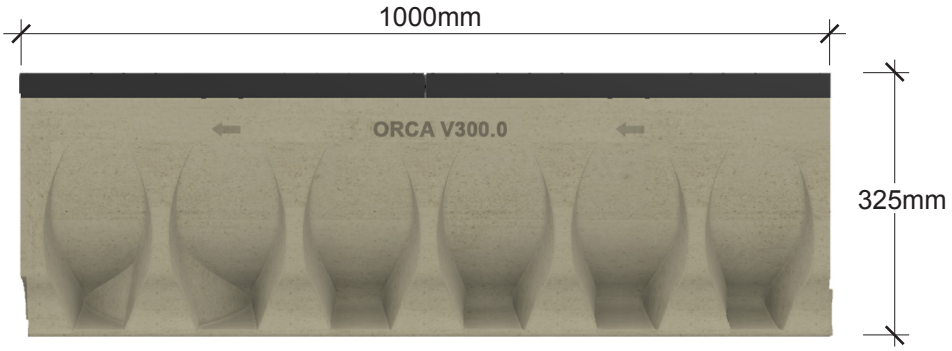
ORCA CV300

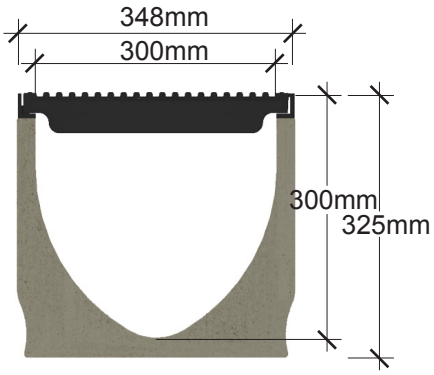
Ductile edge rail polymer concrete channel system

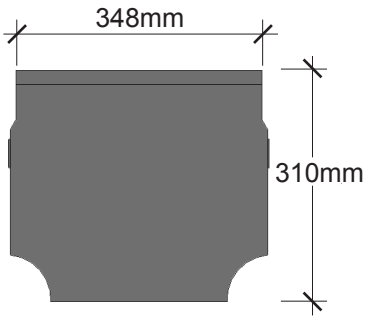


ASS3996:2006 Load Rating Guide

- Class A Extra Light
- Class B Light
- Class C Medium
- Class D Heavy
- Class E Extra Heavy E



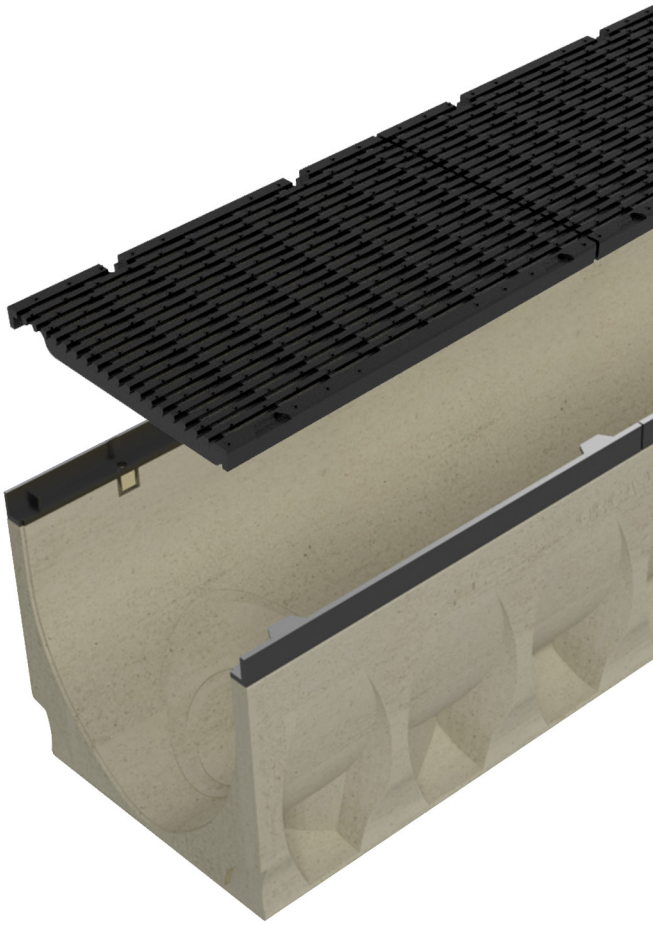




Orca CV300 Series–Ductile edge rail polymer concrete channel,100mm C/O, Class G

Name	CCP Part No.	Polymer concrete channel type	Class Load	Width C/O(mm)	Length O/A(mm)	Start depth (mm)	End depth (mm)	Cross sectional open area(mm²)	Weight (kg)
CV300	600900	CV300.0 channel, 300mm C/O x 325 O/A deep cast edge, Class E	**E400**	300	1000	300	300	65057	65

Orca Polymer Concrete Properties



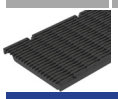
Orca Drain CV300 series is manufactured from corrosion resistant polymer concrete with cast in ductile iron edge rails. Orca polymer concrete is non flammable, frost proof and resistant to weathering and diluted acids and alkali's.

Compressive Strength: 95 MPa
Water Absorption: 0 - 0.06%
Density: 2300 kg/m3
Mannings Roughness: n=0.011

Orca Drain CV300 grates lead the industry in design and quality. CV300 channel grates are engineered to meet the following standards:

AS3996:2006 Access covers and grates
AS4586:2013 Slip resistance of new pedestrian surfaces
AS1428.1 Design for access and mobility

Grate

Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Per metre	Material	Weight (kg)
	**G325**	G325	Ductile iron heelguard grate suit CV300, Class E	**E400**	300	500	7	133000	Ductile	15kg

Accessories

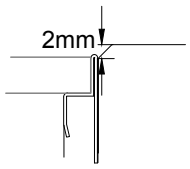
Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Per metre	Material	Weight (kg)
	600392	600392	End Cap suit CV300	-	300	325	-	-	Galv	0.1
	600995	600995	M10 SS bolt set per meter	-	-	-	-	-	SS	0.1

Installation Detail

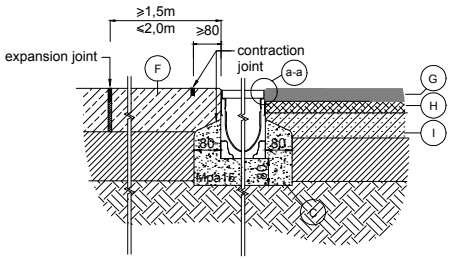
Legend

A	Pavers	E	Earth	I	Road base
B	Sand	F	Concrete	J	Sitting compound
C	Concrete haunch	G	Asphalt		
D	Sub base	H	Base course		

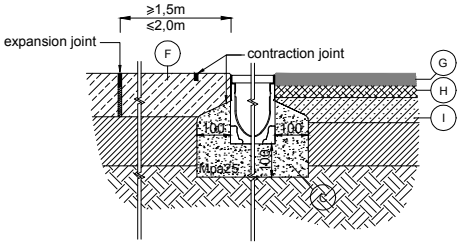
Detail a-a



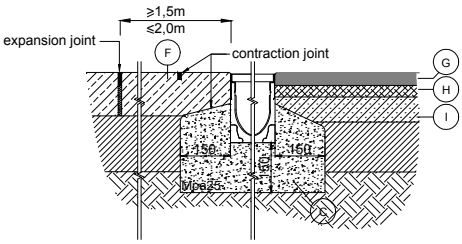
Class A
Extra Light



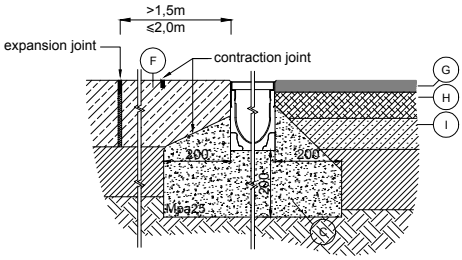
Class B
Light



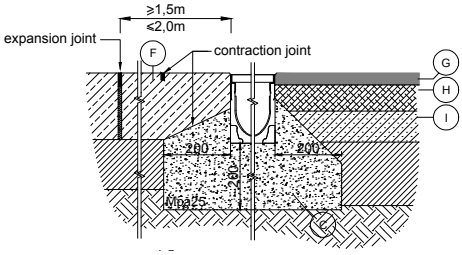
Class C
Medium



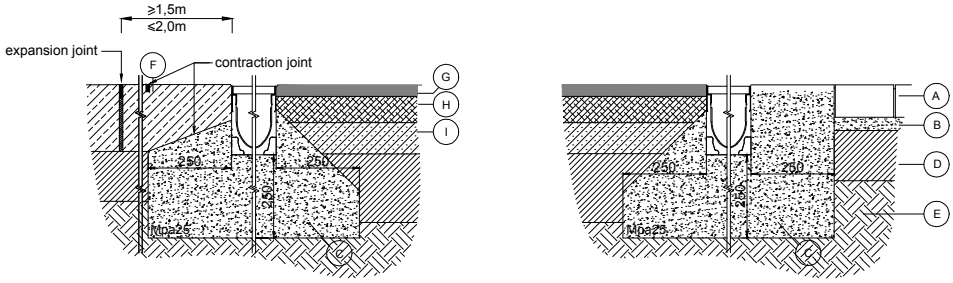
Class D
Heavy



Class E
Extra Heavy E



Class G
Extra Heavy G



ORCA DRAIN

Industrial Cast Iron

CH200 Polymer concrete channel range

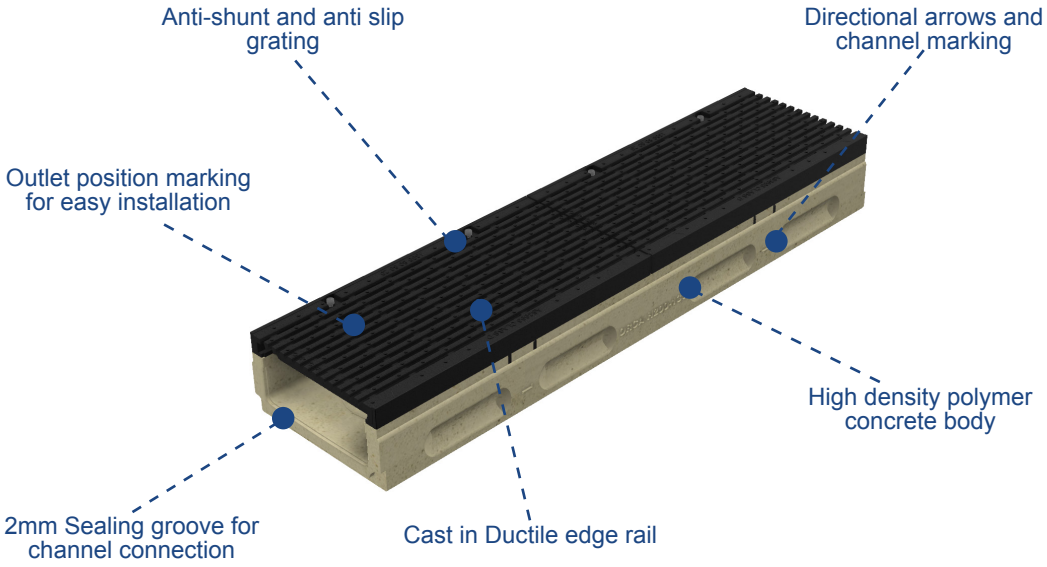
steel&tube

AUSTRALIAN MADE

ORCA CIVIL PRODUCTS

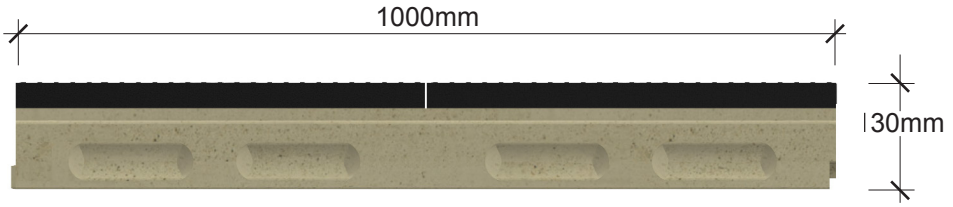
ORCA CH200-130

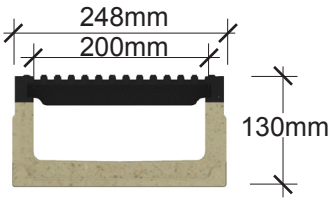
Ductile edge rail polymer concrete channel system

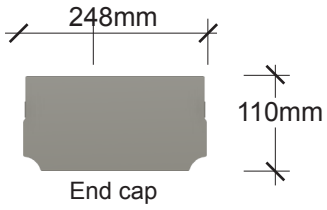


ASS3996:2006 Load Rating Guide

- Class A Extra Light
- Class B Light
- Class C Medium
- Class D Heavy
- Class E Extra Heavy E



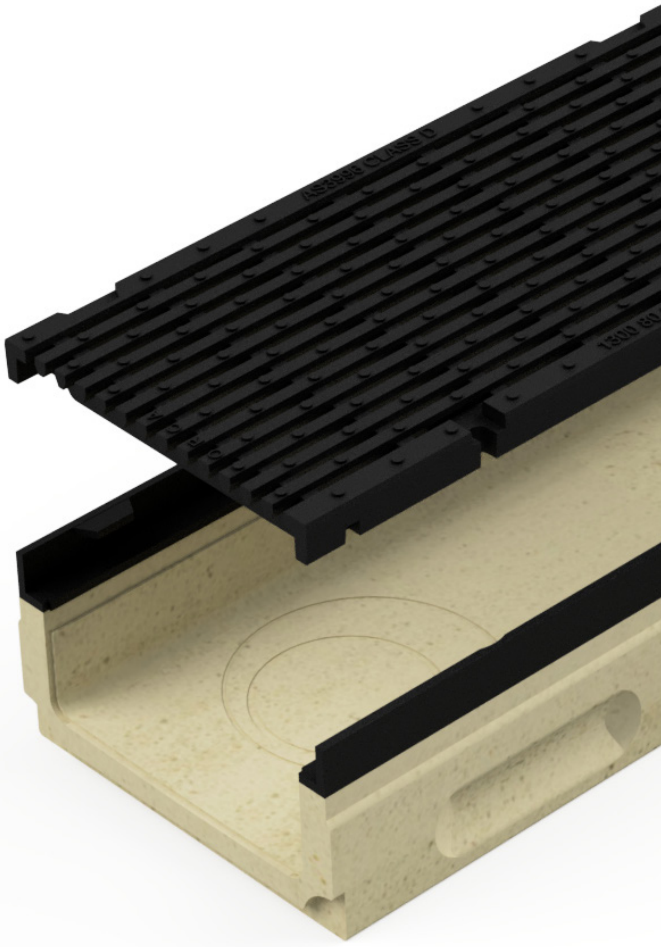




Orca CH200 Series – Ductile edge rail polymer concrete channel, 200mm c/o, Class G

Name	CCP Part No.	Polymer concrete channel type	Class Load	Width C/O(mm)	Length O/A(mm)	Start depth (mm)	End depth (mm)	Cross sectional open area(mm²)	Weight (kg)
CH200-130	600040	CH200 channel, 200mm C/O x 130 O/A Ductile edge, Class D	**G900**	200	1000	130	130	14882	32

Orca Polymer Concrete Properties



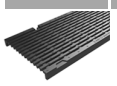
Orca Drain CH200 series is manufactured from corrosion resistant polymer concrete with cast in galvanized steel edge rails. Orca polymer concrete is non flammable, frost proof and resistant to weathering and diluted acids and alkali's.

Compressive Strength: 95 MPa
Water Absorption: 0 - 0.06%
Density: 2300 kg/m3
Mannings Roughness: n=0.011

Orca Drain CH200 grates lead the industry in design and quality. CH200 channel grates are engineered to meet the following standards:

AS3996:2006 Access covers and grates
AS4586:2013 Slip resistance of new pedestrian surfaces
AS1428.1 Design for access and mobility

Grate

Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Per metre	Material	Weight (kg)
	**G225**	G225	Ductile iron heelguard grate suit CV200, Class E	**E400**	200	500	7	84115	Ductile	9

Accessories

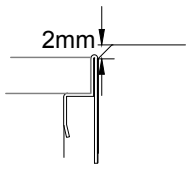
Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Per metre	Material	Weight (kg)
	600016	600016	End Cap suit CH200	**-**	200	225	-	-	SS	0.1

Installation Detail

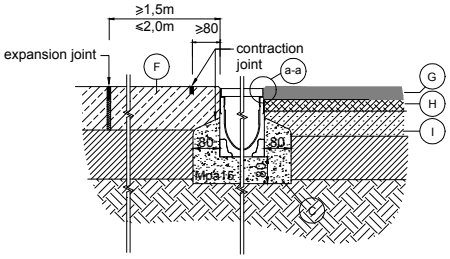
Legend

A	Pavers	E	Earth	I	Road base
B	Sand	F	Concrete	J	Sitting compound
C	Concrete haunch	G	Asphalt		
D	Sub base	H	Base course		

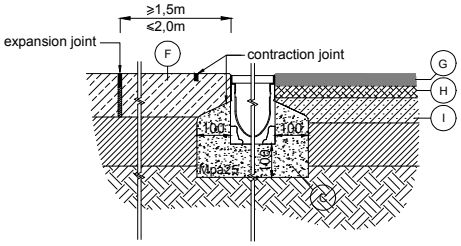
Detail a-a



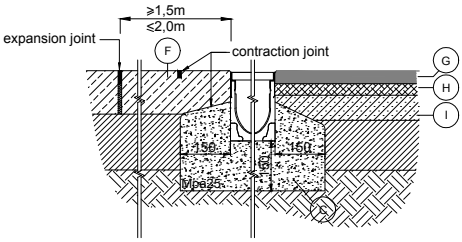
Class A
Extra Light



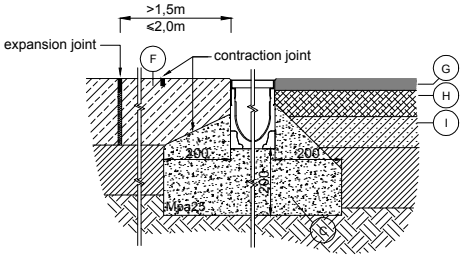
Class B
Light



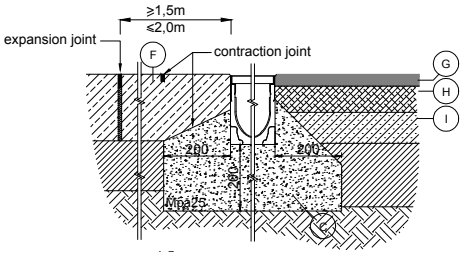
Class C
Medium



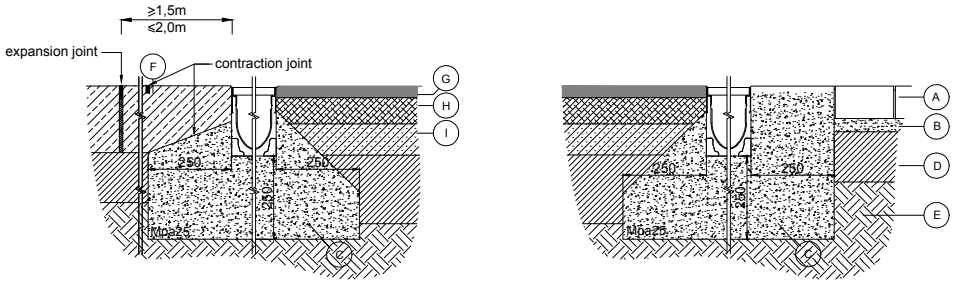
Class D
Heavy



Class E
Extra Heavy E



Class G
Extra Heavy G

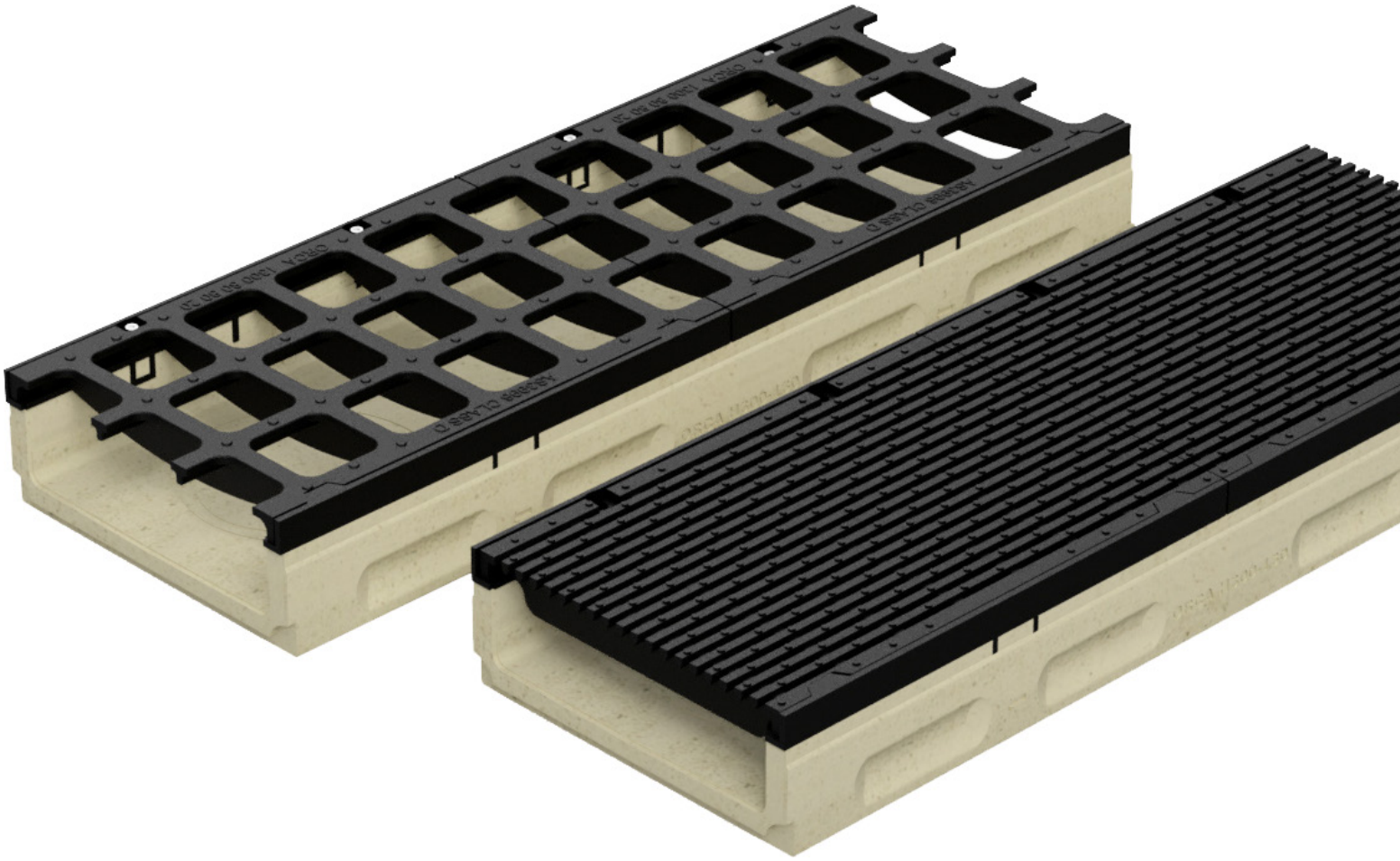


ORCA DRAIN

Industrial Cast Iron

CH300 Polymer concrete channel range

steel&tube



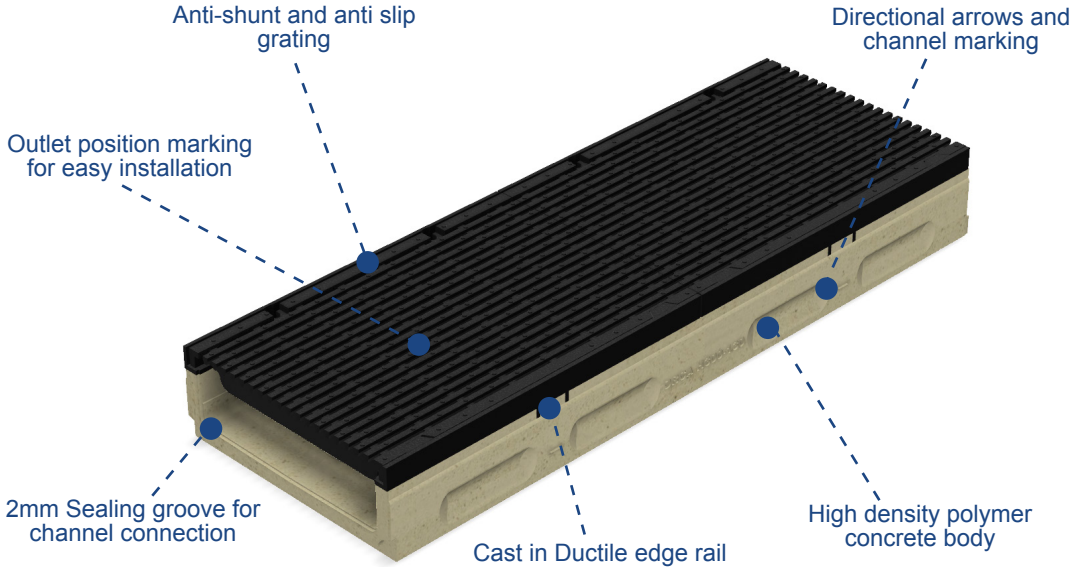
AUSTRALIAN MADE

ORCA Civil Products

www.steelandtube.co.nz

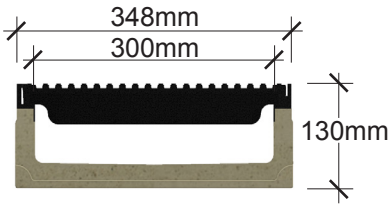
ORCA CH300-130

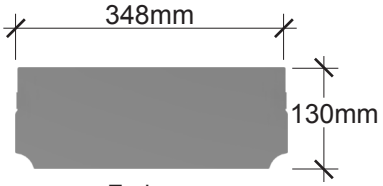
Ductile edge rail polymer concrete channel system



ASS3996:2006 Load Rating Guide

- Class A Extra Light
- Class B Light
- Class C Medium
- Class D Heavy
- Class E Extra Heavy E





End cap

Orca CH300 Series–Ductile edge rail polymer concrete channel, 300mm C/O, Class G

Name	CCP Part No.	Polymer concrete channel type	Class Load	Width C/O(mm)	Length O/A(mm)	Start depth (mm)	End depth (mm)	Cross sectional open area(mm²)	Weight (kg)
CH300–130	600080	CH300 channel, 300mm C/O x 130 O/A Galv edge, Class D	**G900**	300	1000	130	130	29386	37

Orca Polymer Concrete Properties

Orca Drain CH300 series is manufactured from corrosion resistant polymer concrete with cast in galvanized steel edge rails. Orca polymer concrete is non flammable, frost proof and resistant to weathering and diluted acids and alkali's.

Compressive Strength: 95 MPa
Water Absorption: 0 - 0.06%
Density: 2300 kg/m3
Mannings Roughness: n=0.011

Orca Drain CH300 grates lead the industry in design and quality. CH300 channel grates are engineered to meet the following standards:

AS3996:2006 Access covers and grates
AS4586:2013 Slip resistance of new pedestrian surfaces
AS1428.1 Design for access and mobility

Grate

Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Per metre	Material	Weight (kg)
	G325	G325	Ductile iron heelguard grate suit CH300, Class E	**E400**	300	500	7	133000	Ductile	15kg
	G328	G328	Ductile iron Slotted grate suit CH300, Class D	**D210**	300	500	80x80	192000	Ductile	11kg

Accessories

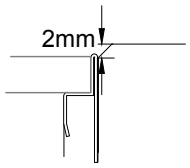
Type	Name	CCP Part No.	Description	Class Load	Width C/O(mm)	Length C/O(mm)	Slot width(mm)	Intake area (mm^2) Per metre	Material	Weight (kg)
	600022	600022	End Cap suit CH300, Class D	**-**	345	130	-	-	Galv	0.1

Installation Detail

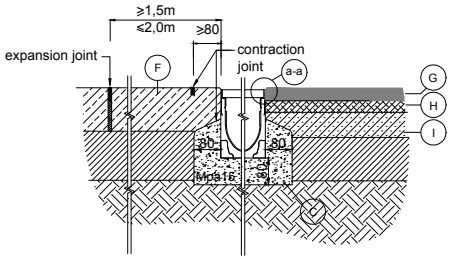
Legend

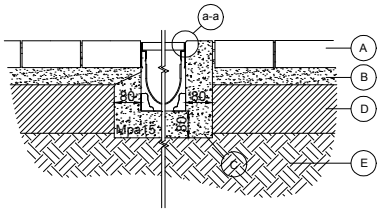
A	Pavers	E	Earth	I	Road base
B	Sand	F	Concrete	J	Sitting compound
C	Concrete haunch	G	Asphalt		
D	Sub base	H	Base course		

Detail a-a

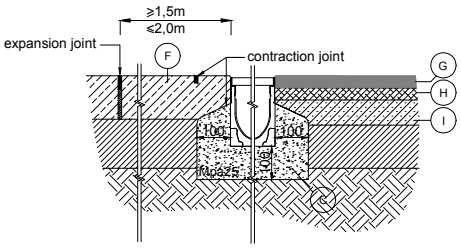


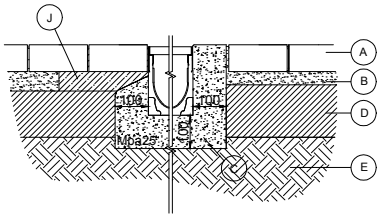
Class A
Extra Light



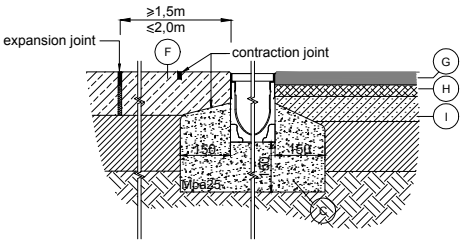


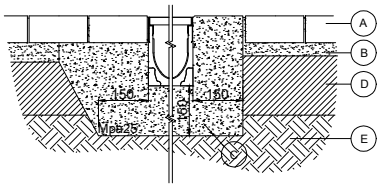
Class B
Light



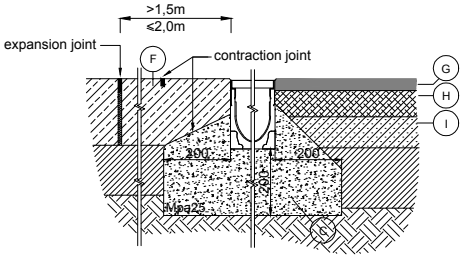


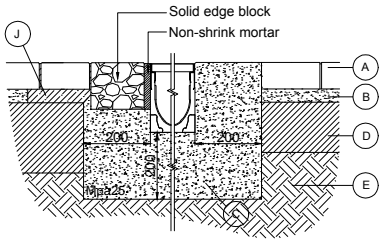
Class C
Medium



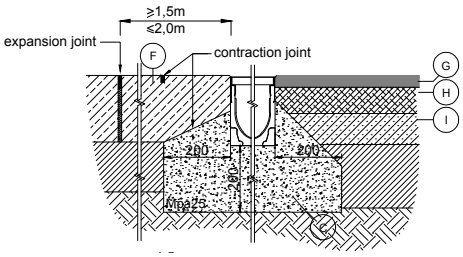


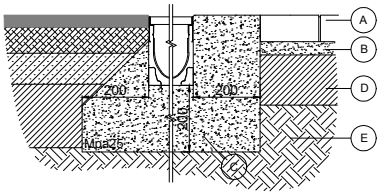
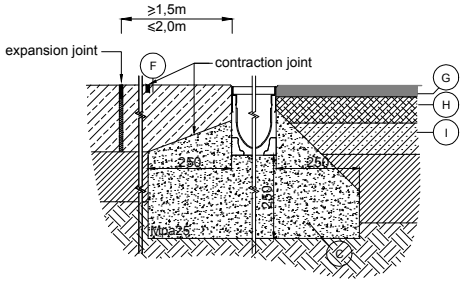
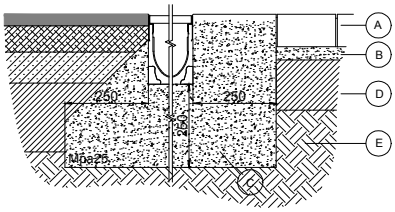
Class D
Heavy





Class E
Extra Heavy E





Class G
Extra Heavy G