

NORIKA ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS PIPE & FITTINGS



TEST CERTIFICATE

Certificate Number : TC-J0485
Issue No : 03

Client : **Liang Chew Hardware Pte Ltd**
133 Kitchener Road
Singapore 208517

Product : Epoxy & Zinc Coated Cast Iron Hubless Pipe & Fitting

Brand / Model : Norika / PIPHUBZ & HUBZ

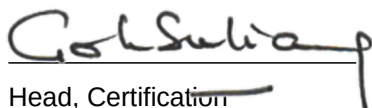
Detail : Nominal Diameter (mm): DN50, DN75, DN100, DN150, DN 200, DN250
& DN300
Internal and external coating test

Specification : BS EN 877: 2021

Test Report : 2625546-OYC

Summary

A sample of the product submitted was tested and found to comply with the test requirements of the above standard(s).


Head, Certification

Singapore Test Lab Pte Ltd

Date of Original Issue:

28 April 2026

Date of Last Revision:

05 May 2026

Date of Expiry:

27 April 2028

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Singapore Test Lab Pte Ltd certifies according to ISO / IEC 17065

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ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS PIPE & FITTING



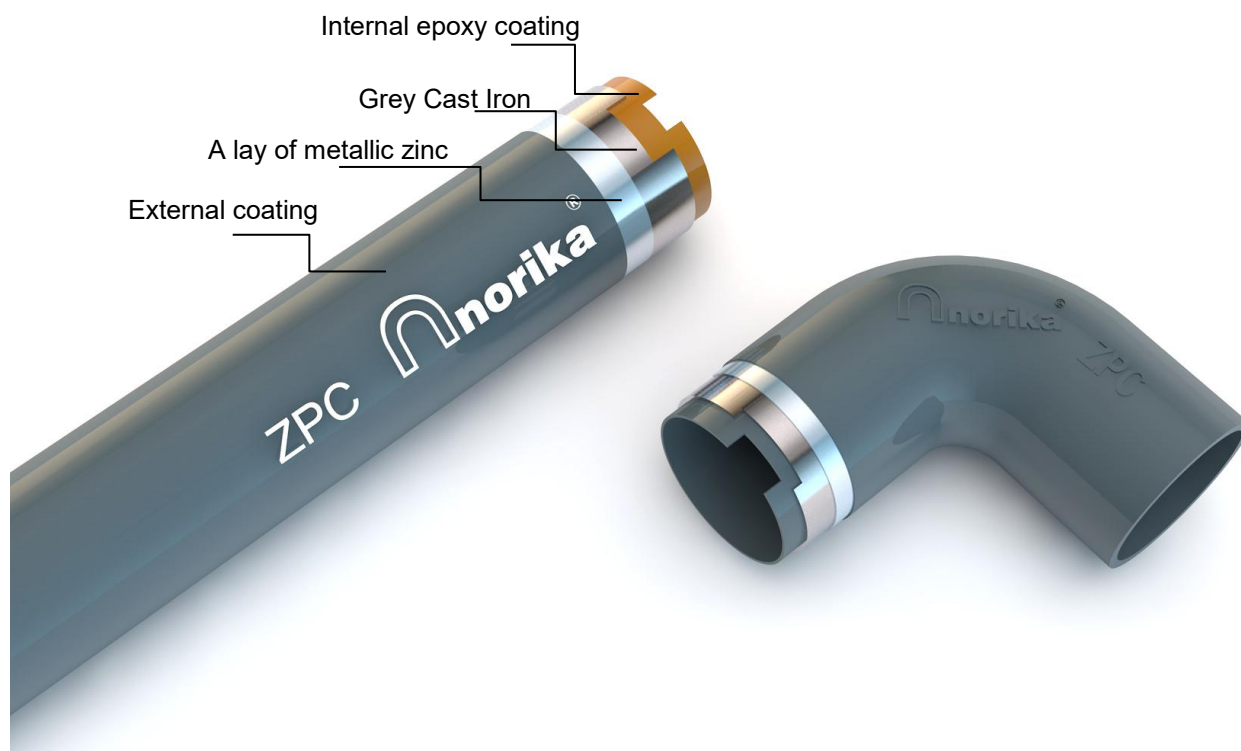
COMPLY WITH BS EN 877: 2021
BS EN 598: 2007

Pipes:

- Internal epoxy coating
Coating thickness: Min. 250µm
- External coating
A layer of metallic zinc: 130g/m²
Finishing layer epoxy coating: Average thickness ≥70µm, and local minimum thickness not less than 50µm.

Fittings:

- Internal epoxy powder
Coating thickness: Min. 250µm
- External coating
A layer of metallic zinc: 130g/m²
Finishing layer epoxy powder: Min. 250µm

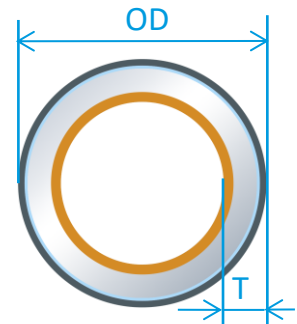
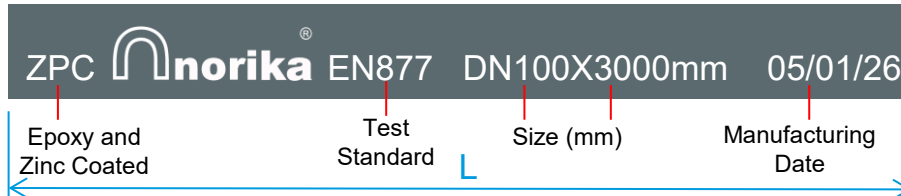
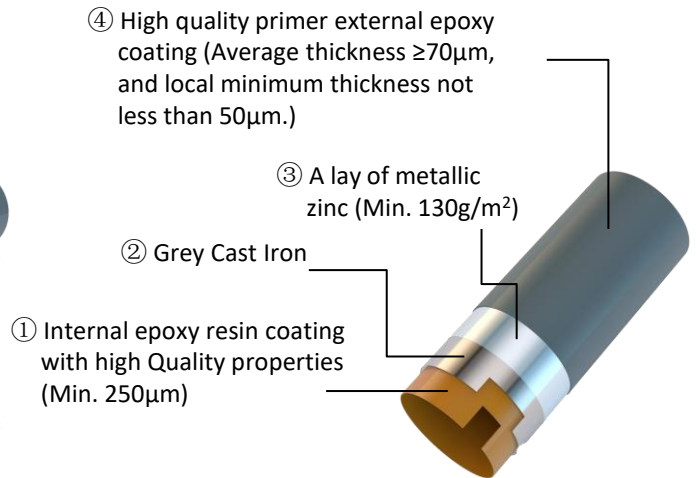


DIMENSIONS OF PIPES AND FITTINGS

DN (mm)	Outer Diameter Nominal (mm)	Outer Diameter Minimum (mm)	Wall Thickness Nominal (mm)	Wall Thickness Minimum (mm)
50	60.0	57.0	3.5	3.0
75	85.0	82.0	3.5	3.0
100	112.0	109.0	3.5	3.0
125	137.0	133.0	4.0	3.5
150	162.0	158.0	4.0	3.5
200	212.0	208.0	5.0	4.0
250	276.5	271.5	5.5	4.5
300	328.5	323.5	6.0	5.0

ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS PIPE

COMPLY WITH BS EN877: 2021
BS EN 598: 2007



CROSS SECTIONAL VIEW

EPOXY COATING CHARACTERISTIC

Pipes:

- The inner wall of the tube: two-component epoxy resins consists of a resin and a hardener component.
Color Number: #A46815
- The outer wall of the tube: The senior grey iron alkyd enamel coating.
Color Number: #4D5B62

Note:

- Availability upon request.
- The tolerance for weight is $\pm 10\%$

COMPONENT PARTS

ITEM	LAYERS	THICKNESS
1	Internal Coating	Min. 250µm
2	Cast Iron	EN1561
3	A Lay Of Metallic Zinc	130g/m ²
4	External Coating	Average thickness $\geq 70\mu\text{m}$, local minimum thickness not less than 50µm

DIMENSIONS

SKU	DN (mm)	OD MAX (mm)	OD MIN (mm)	T- NOMINAL (mm)	T- MIN (mm)	L [mm]	WEIGHT (kg)
PIPHUBZ050	50	60.0	57.0	3.5	3.0	3000	13.0
PIPHUBZ080	75	85.0	82.0	3.5	3.0	3000	18.9
PIPHUBZ100	100	112.0	109.0	3.5	3.0	3000	25.2
PIPHUBZ125	125*	137.0	133.0	4.0	3.5	3000	35.4
PIPHUBZ150	150	162.0	158.0	4.0	3.5	3000	42.2
PIPHUBZ200	200	212.0	208.0	5.0	4.0	3000	69.3
PIPHUBZ250	250*	276.5	271.5	5.5	4.5	3000	99.8
PIPHUBZ300	300*	328.5	323.5	6.0	5.0	3000	129.7

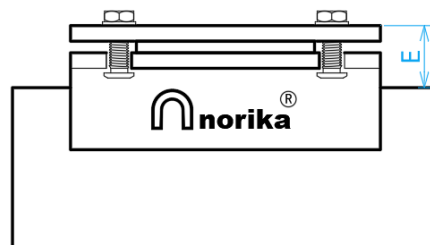
ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS SHORT PIPE WITH ACCESS DOOR



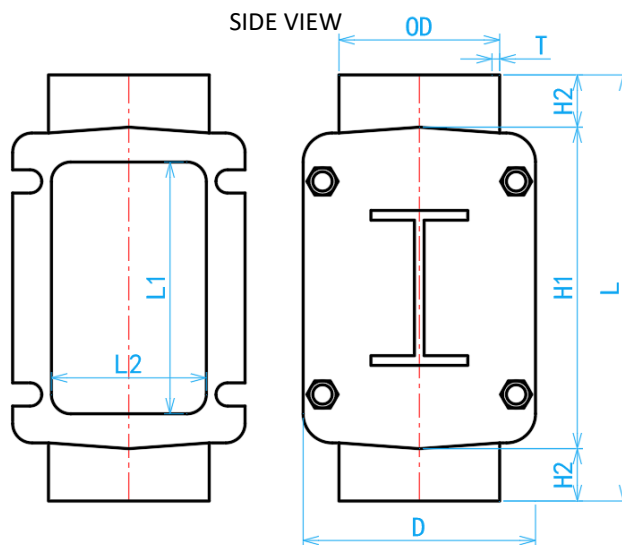
COMPLY WITH BS EN877: 2021
BS EN 598: 2007

COATING CHARACTERISTIC

ITEM	LAYERS	THICKNESS
1	Internal Coating	Min. 250µm
2	A Lay Of Metallic Zinc	130g/m ²
3	External Coating	Average thickness ≥70µm, local minimum thickness not less than 50µm



SIDE VIEW



Remove Cover

FRONT VIEW

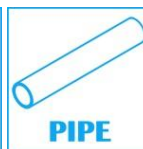
*Open the inspection cover seal and manually clear any blockage through the wide access door for easier maintenance.

DIMENSIONS

SKU	DN (mm)	OD (mm)	E (mm)	L (mm)	L1 (mm)	L2 (mm)	H1 (mm)	H2 (mm)	D (mm)	WEIGHT (kg)
HUBZSP100	100	110	21	340	195	100	225	58	160	7.52
HUBZSP150	150	160	21	395	245	150	275	60	216	12.80
HUBZSP200	200	210	21	465	292	196	315	75	264	19.80
HUBZSP250	250	274	28	575	338	258	380	97	330	38.00

Notes: The tolerance for Weight is $\pm 10\%$.

ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS BEND AND CROSS TEE

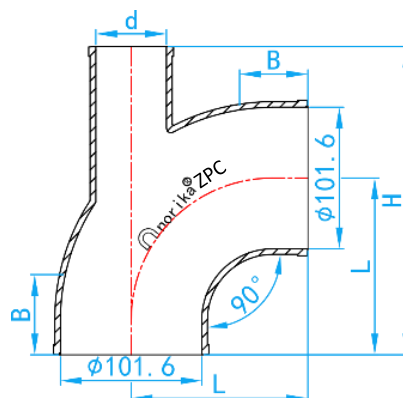


COMPLY WITH BS EN877: 2021
BS EN 598: 2007

COATING CHARACTERISTIC

ITEM	LAYERS	THICKNESS
1	Internal Coating	Min. 250µm
2	A Lay Of Metallic Zinc	130g/m ²
3	External Coating	Average thickness ≥70µm, local minimum thickness not less than 50µm

4"X2"X90 DEG BEND

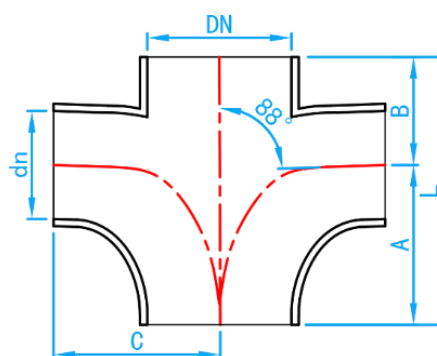


CROSS SECTIONAL VIEW

DIMENSIONS

SKU	SIZE (mm)	B (mm)	L (mm)	d (mm)	H (mm)	WEIGHT (kg)
HUBZB9010050	100X50	35	125	50.8	218	2.50

CROSS TEE 88°



CROSS SECTIONAL VIEW

DIMENSIONS

SKU	DN (mm)	dn (mm)	A (mm)	B (mm)	L (mm)	C [mm]	WEIGHT (kg)
HUBZCT10050	100	50	100	80	180	105	2.21
HUBZCT100100	100	100	120	110	230	120	3.26
HUBZCT150100	150	100	130	115	245	145	5.15

Notes: The tolerance for Weight is ±10%.

ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS CAP & REDUCER

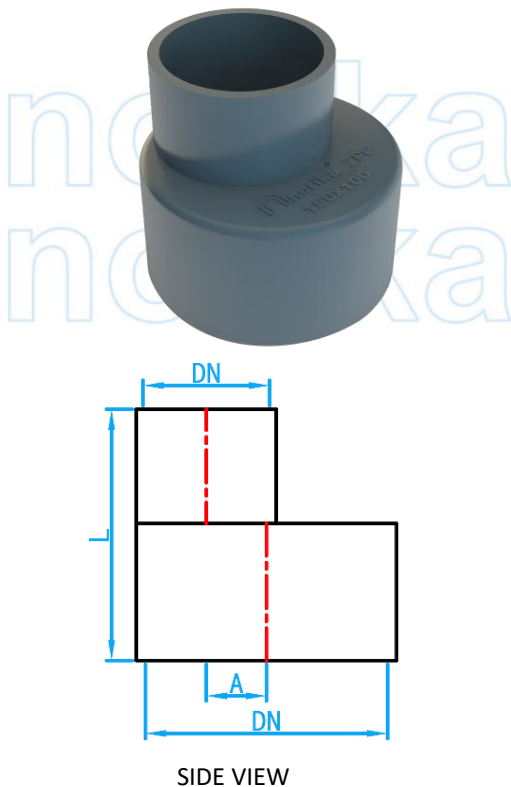


COMPLY WITH BS EN877: 2021
BS EN 598: 2007

END CAP



REDUCER



COATING CHARACTERISTIC

ITEM	LAYERS	THICKNESS
1	Internal Coating	Min. 250µm
2	A Lay Of Metallic Zinc	130g/m ²
3	External Coating	Average thickness ≥70µm, local minimum thickness not less than 50µm

DIMENSIONS

SKU	DN (mm)	L (mm)	WEIGHT (kg)
HUBZEC050	50	30	0.23
HUBZEC080	75	35	0.50
HUBZEC100	100	40	0.71
HUBZEC150	150	50	1.80
HUBZEC200	200	60	2.80
HUBZEC250	250	70	6.00

DIMENSIONS

SKU	DN (mm)	L (mm)	A (mm)	WEIGHT (kg)
HUBZRS08050	75X50	75	12.5	0.65
HUBZRS10050	100X50	80	25	0.90
HUBZRS10080	100X75	100	13.5	1.07
HUBZRS12550	125X50	85	38.5	1.40
HUBZRS12580	125X75	95	26	1.70
HUBZRS125100	125X100	95	12.5	1.80
HUBZRS150050	150X50	95	51	2.00
HUBZRS150080	150X75	100	37.5	2.10
HUBZRS150100	150X100	150	25	1.96
HUBZRS150125	150X125	110	12.5	2.20
HUBZRS200080	200X75	115	62.5	3.15
HUBZRS200100	200X100	115	50	4.10
HUBZRS200125	200X125	120	37.5	4.20
HUBZRS200150	200X150	125	25	4.30
HUBZRS250100	250X100	130	75	5.83
HUBZRS250150	250X150	140	57	6.80
HUBZRS250200	250X200	145	32	7.00
HUBZRS300150	300X150	150	83	10.70
HUBZRS300200	300X200	160	58	11.40
HUBZRS300250	300X250	170	26	10.00

***Availability upon request**

Notes: The tolerance for Weight is $\pm 10\%$.

ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS BEND



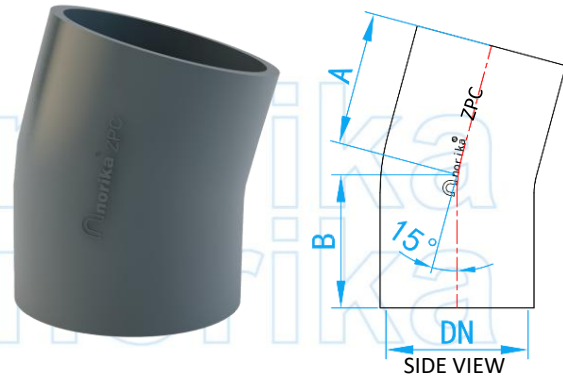
COMPLY WITH BS EN877: 2021
BS EN 598: 2007

COATING CHARACTERISTIC

ITEM	LAYERS	THICKNESS
1	Internal Coating	Min. 250µm
2	A Lay Of Metallic Zinc	130g/m ²
3	External Coating	Average thickness ≥70µm, local minimum thickness not less than 50µm

*Availability upon request

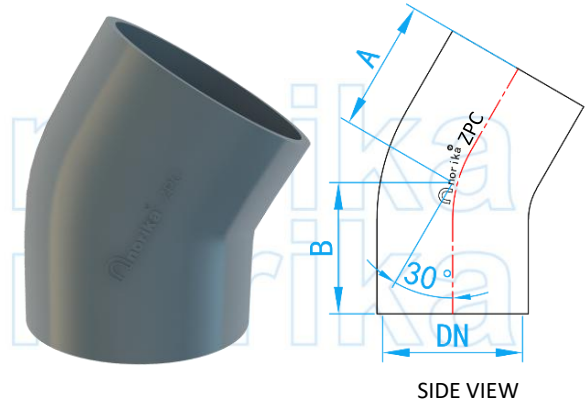
15° BEND



DIMENSIONS

SKU	DN (mm)	A (mm)	B (mm)	WEIGHT (kg)
HUBZB15050	50	40	40	0.6
HUBZB15080	75	50	50	0.8
HUBZB15100	100	50	50	1.0
HUBZB15125	125*	60	60	1.7
HUBZB15150	150	65	65	2.5
HUBZB15200	200	80	80	4.6

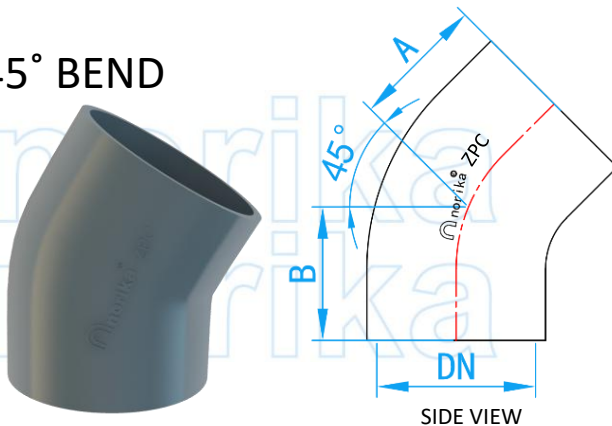
30° BEND



DIMENSIONS

SKU	DN (mm)	A (mm)	B (mm)	WEIGHT (kg)
HUBZB30050	50	45	45	0.5
HUBZB30080	75	60	60	0.8
HUBZB30100	100	60	60	1.3
HUBZB30125	125*	70	70	2.0
HUBZB30150	150	80	80	3.0
HUBZB30200	200	95	95	5.4
HUBZB30250	250	110	110	9.7
HUBZB30300	300	130	130	15.5

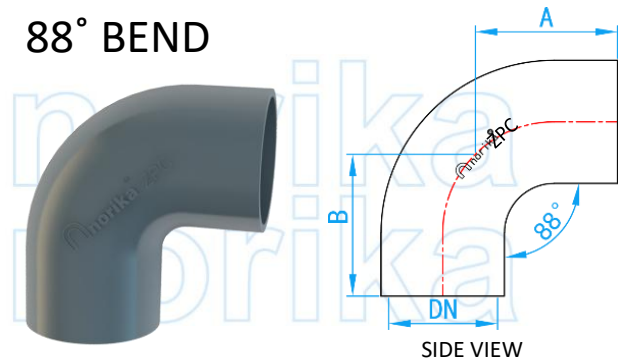
45° BEND



DIMENSIONS

SKU	DN (mm)	A (mm)	B (mm)	WEIGHT (kg)
HUBZB45050	50	60	60	0.5
HUBZB45080	75	60	60	1.0
HUBZB45100	100	70	70	1.6
HUBZB45125	125*	80	80	2.3
HUBZB45150	150	90	90	3.0
HUBZB45200	200	110	110	6.2
HUBZB45250	250	130	130	13.2
HUBZB45300	300	155	155	17.3

88° BEND



DIMENSIONS

SKU	DN (mm)	A (mm)	B (mm)	WEIGHT (kg)
HUBZB90050	50	75	75	0.7
HUBZB90080	75	95	95	1.4
HUBZB90100	100	110	110	2.1
HUBZB90125	125*	125	125	3.2
HUBZB90150	150	145	145	4.9
HUBZB90200	200	180	180	8.8
HUBZB90250	250	225	225	17.9
HUBZB90300	300	260	260	28.0

Notes: The tolerance for Weight is ± 10%.

ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS BRANCH TEE 88°



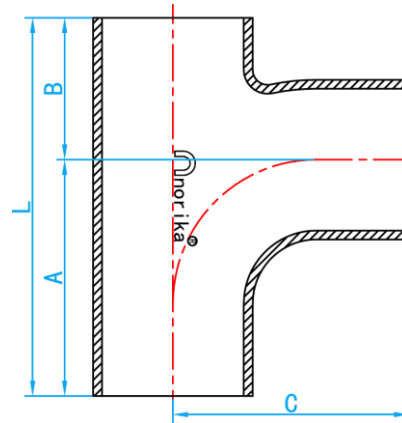
COMPLY WITH BS EN877: 2021
BS EN 598: 2007

COATING CHARACTERISTIC

ITEM	LAYERS	THICKNESS
1	Internal Coating	Min. 250µm
2	A Lay Of Metallic Zinc	130g/m ²
3	External Coating	Average thickness ≥70µm, local minimum thickness not less than 50µm



*Availability upon request



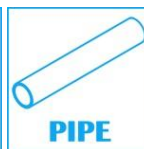
CROSS SECTIONAL VIEW

DIMENSIONS

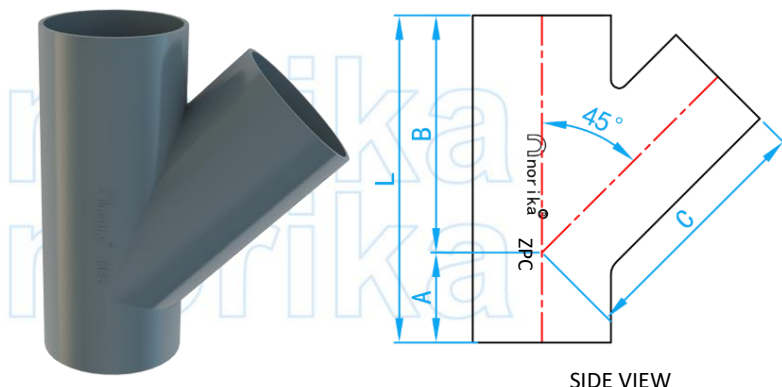
SKU	DN (mm)	A (mm)	B (mm)	L (mm)	C (mm)	WEIGHT (kg)
HUBZET050	50X50	79	66	145	80	1.08
HUBZRT08050	75X50	95	85	180	90	1.6
HUBZET080	75X75	95	85	180	90	1.61
HUBZRT10050	100X50	94	76	170	105	2.00
HUBZRT10080	100X75	105	90	195	110	2.65
HUBZET100	100X100	115	105	220	120	2.60
HUBZRT12550	125X50*	98	82	180	120	3.0
HUBZRT12580	125X75*	110	94	205	125	3.4
HUBZRT125100	125X100*	125	110	235	130	4.0
HUBZRT150050	150X50	100	100	200	140	3.78
HUBZRT150080	150X75	110	110	220	145	5.0
HUBZRT150100	150X100	130	115	245	145	4.95
HUBZRT150125	150X125*	147	128	275	150	6.2
HUBZET150	150X150	158	142	300	155	5.86
HUBZRT200100	200X100	144	126	270	175	7.40
HUBZRT200150	200X150	173	152	325	185	9.00
HUBZET200	200X200	202	178	380	195	12.8
HUBZRT250100	250X100	165	147	312	210	13.3
HUBZRT250150	250X150	195	160	355	230	19.3
HUBZRT250200	250X200	205	200	405	240	21.0
HUBZET250	250X250	250	220	470	240	24.5
HUBZET300	300X300	300	266	566	300	38.0

Notes: The tolerance for Weight is ± 10%.

ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS BRANCH TEE 45°



COMPLY WITH BS EN877: 2021
BS EN 598: 2007



SIDE VIEW

COATING CHARACTERISTIC		
ITEM	LAYERS	THICKNESS
1	Internal Coating	Min. 250µm
2	A Lay Of Metallic Zinc	130g/m ²
3	External Coating	Average thickness ≥70µm, local minimum thickness not less than 50µm

*Availability upon request

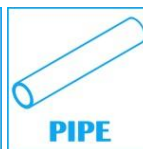
DIMENSIONS

SKU	DN (mm)	A (mm)	B (mm)	L (mm)	C (mm)	WEIGHT (kg)
HUBZYT05050	50X50	50	135	185	135	1.40
HUBZYT08050	75X50	50	140	190	140	1.70
HUBZYT08080	75X75	65	160	225	160	2.40
HUBZYT100050	100X50	35	165	200	165	2.50
HUBZYT100080	100X75	55	175	230	175	3.30
HUBZYT100100	100X100	70	205	275	205	4.04
HUBZYT125050	125X50*	20	185	205	185	3.40
HUBZYT125080	125X75*	40	200	240	200	4.40
HUBZYT125100	125X100	60	220	280	220	5.20
HUBZYT150080	150X75	30	215	345	215	5.90
HUBZYT150100	150X100	55	240	295	240	6.44
HUBZYT150125	150X125*	70	255	325	255	8.00
HUBZYT150150	150X150	90	265	355	265	9.20
HUBZYT200080	200X75	15	240	255	240	8.50
HUBZYT200100	200X100	40	265	305	265	8.25
HUBZYT200125	200X125*	55	280	335	280	11.90
HUBZYT200150	200X150	75	300	375	300	11.86
HUBZYT200200	200X200	115	340	455	340	17.00
HUBZYT250100	250X100*	15	310	325	310	15.40
HUBZYT250125	250X125*	35	335	370	335	17.70
HUBZYT250150	250X150*	55	350	405	350	20.20
HUBZYT250200	250X200*	90	385	475	385	25.10
HUBZYT250250	250X250*	130	430	560	430	31.50
HUBZYT300100	300X100*	5	345	350	345	22.00
HUBZYT300125	300X125*	15	360	375	360	23.90
HUBZYT300150	300X150*	35	380	415	380	26.90
HUBZYT300200	300X200*	70	415	485	415	34.00
HUBZYT300250	300X250*	115	465	580	465	34.00
HUBZYT300300	300X300*	155	505	660	505	50.10

Notes: The tolerance for Weight is ± 10%.

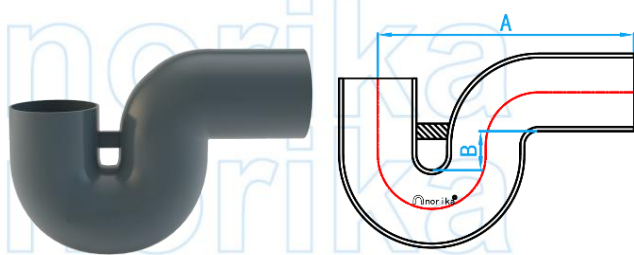
ZPC - EPOXY AND ZINC COATED CAST IRON HUBLESS TRAPS

COMPLY WITH BS EN877: 2021
BS EN 598: 2007



COATING CHARACTERISTIC

ITEM	LAYERS	THICKNESS
1	Internal Coating	Min. 250µm
2	A Lay Of Metallic Zinc	130g/m ²
3	External Coating	Average thickness ≥70µm, local minimum thickness not less than 50µm

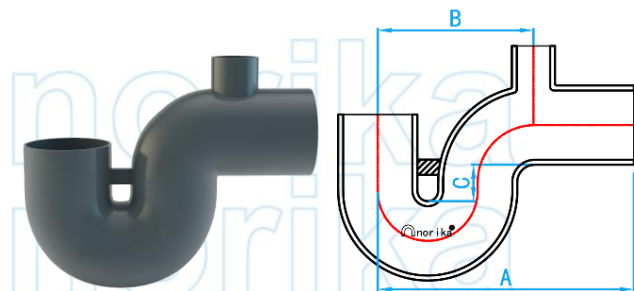


CROSS SECTIONAL VIEW

P-TRAP (100mmx100mm)

DIMENSIONS

SKU	A (mm)	B (mm)	WEIGHT (kg)
HUBZPT100	358.5	53.5	7.12

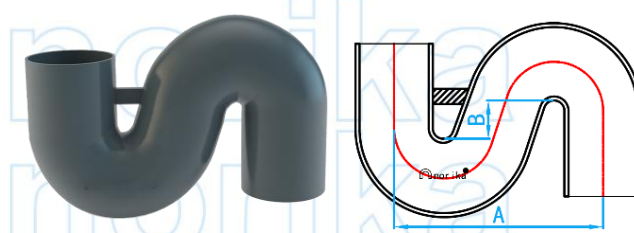


CROSS SECTIONAL VIEW

P-TRAP (100mmx100mmx50mm)

DIMENSIONS

SKU	A (mm)	B (mm)	C (mm)	WEIGHT (kg)
HUBZPT10050	358.5	225	53.5	7.05

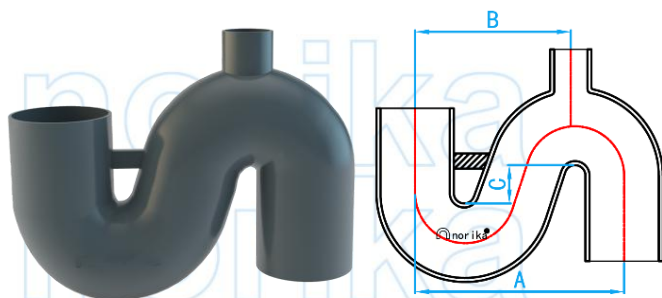


CROSS SECTIONAL VIEW

S-TRAP (100mmx100mm)

DIMENSIONS

SKU	A (mm)	B (mm)	WEIGHT (kg)
HUBZST100	305	55.7	8.50



CROSS SECTIONAL VIEW

S-TRAP (100mmx100mmx50mm)

DIMENSIONS

SKU	A (mm)	B (mm)	C (mm)	WEIGHT (kg)
HUBZST10050	305	228	55.7	7.75

Notes: The tolerance for Weight is ±10%.

Built For Water



Main Office

133 Kitchener Road
Singapore 208517

Mon-Fri: 8:00am - 5:30pm
Sat, Sun & PH: Closed

North Office

10 Admiralty Street, North
Link Building #02-45
Singapore 757695

Mon-Fri: 8:00am - 5:30pm
Sat, Sun & PH: Closed