PERMISSIBLE EMBEDMENT DEPTH OF CABLE PROTECTION PIPES

EVOCAB SUPERHARD



Compression strength class: 1250

Impact resistance: N

Material: polypropylene (PP)

Go to **EVOCAB SUPERHARD** calculation table

0

Installation place:







Single wheel load:

10 kN

60 kN

100 kN

120 kN

Minimum depth of embedment

Installation places - according to EN 124-1

A15

Areas which can only be used by pedestrians and pedal cyclists.

B125

Pedestrian areas and comparable areas, car parks or car parking decks.

C250

Area of kerbside channels of roads which, when measured from kerb edge, extends a maximum of 0.5m into carriageway and a maximum of 0.2 m into pedestrian area.

D400

Carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.

DN/OD 110 mm:

DN/OD 160 mm:

0.3 m

0.3 m

0.5 m

0.4 m

0.6 m

0.6 m

0.6 m

0.6 m

DN/OD 200 mm:

0.3 m

0.5 m

0.7 m

0.7 m

DN/OD 250 mm:

0.3 m

0.5 m

0.7 m

0.7 m

DN/OD 315 mm:

0.3 m

0.5 m

0.7 m

0.7 m

DN/OD 400 mm:

0.3 m

0.5 m

0.7 m

0.7 m

* by not exceeding 5% borderline value of initial deflection specified in EN 61386-24 standard (clause 10.2.5)



A15 B125

C250

D400

C250

B125

A15



DN/OD 110 mm

EVOCAB SUPERHARD N1250

Characteristics accepted in the calculations:

Water table level from the top of the ground surface - 0,1 \mbox{m}

Unit weight of dry soil - 20 kN/m³
Unit weight of wet soil - 11 kN/m³
Unit weight of water - 10 kN/m³

Standard Proctor Density (SPD) ≥ 95 %	Place of installation:	Group	1 (class	A15) - A	reas whi	ch can o	nly be u	sed by p	edestriar	ns and pe	edal cycl	ists (sing	le wheel	load <1	0 kN) .		
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Fotal vertical load (Q) to the pipe after construction, kN/m ²		62.9	40.7	31.6	27.5	26.0	25.7	26.1	27.1	30.3	33.8	35.7	39.5	43.8	45.8	76.4	117.6
Initial deflection of the pipe after construction, %		3.06	2.68	2.53	2.46	2.43	2.43	2.44	2.45	2.50	2.55	2.58	2.64	2.70	2.73	3.17	3.70
Standard Proctor Density (SPD) ≥ 98 %	Place of installation	Group	2 (class	B125) -	Pedestrio	an areas	and con	nparable	e areas, c	ar parks	or car p	arking de	ecks (sing	gle whee	el load 60	kN) .	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction,	kN/m²	340.7	197.0	131.6	97.0	77.0	64.7	57.0	52.1	50.4	50.7	51.2	53.4	57.9	59.6	85.6	122.7
Initial deflection of the pipe after construction, %		6.92	4.84	3.89	3.39	3.10	2.92	2.80	2.73	2.70	2.70	2.71	2.73	2.79	2.80	3.07	3.43
Standard Proctor Density (SPD) ≥ 98 %	Place of installation	-				Group 3 (class C250) - For gully tops, installed in the area of kerhside channels of roads which, when measured from the kerh ed									b edge,		
														igie wiie	zer ioaa i	OU KIV).	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction,		0.3 562.9	0.4 322.0	0.5 211.6	0.6 152.5	0.7 117.8	0.8 96.0	0.9 81.7	1.0 72.1	1.2 67.9	1.4 66.2	1.5 65.9					5.5 127.3
-						• • •					-		1.7	1.9	2.0	3.5	
Total vertical load (Q) to the pipe after construction,		562.9 10.13 Group	322.0 6.64 4 (class	211.6 5.04	152.5 4.18 <i>Carriage</i>	117.8 3.68 ways of	96.0 3.36	81.7	72.1 3.01	67.9 2.95	66.2	65.9 2.91	1.7 67.9 2.93	1.9 74.2 3.01	2.0 75.6 3.02	3.5 93.7 3.17	127.3 3.48
Total vertical load (Q) to the pipe after construction, Initial deflection of the pipe after construction, %	kN/m² Place of installation:	562.9 10.13 Group	322.0 6.64 4 (class	211.6 5.04 D400) -	152.5 4.18 <i>Carriage</i>	117.8 3.68 ways of	96.0 3.36	81.7	72.1 3.01	67.9 2.95	66.2	65.9 2.91	1.7 67.9 2.93	1.9 74.2 3.01	2.0 75.6 3.02	3.5 93.7 3.17	127.3 3.48
Total vertical load (Q) to the pipe after construction, Initial deflection of the pipe after construction, % Standard Proctor Density (SPD) ≥ 98 %	Place of installations the top of the pipe, m	562.9 10.13 Group vehicles	322.0 6.64 4 (class s (single	211.6 5.04 D400) - wheel loo	152.5 4.18 Carriage ad 120 kl	117.8 3.68 **ways of	96.0 3.36 Froads (ii	81.7 3.15 ncluding	72.1 3.01 pedestri	67.9 2.95 ian stree	66.2 2.92 ts), hard	65.9 2.91 shoulde	1.7 67.9 2.93 rs and p a	1.9 74.2 3.01 arking a	2.0 75.6 3.02 reas, for a	3.5 93.7 3.17 all type o	127.3 3.48 of road

5.38

Initial deflection of the pipe exceeds 5% borderline specified in EN 61386-24 standard (clause 10.2.5)

Notes.

Groups of place of installation according to EN 124-1 standard.

For backfilling of the trench, it is recommended to use G1, G2, G3, G4 soil group material.

Soil groups - according to CEN/TR 1046 standard annex A table A.1.







DN/OD 160 mm

EVOCAB SUPERHARD N1250

Characteristics accepted in the calculations:

Water table level from the top of the ground surface - 0,1 m Unit weight of dry soil - 20 kN/m³

Unit weight of wet soil - 11 kN/m³
Unit weight of water - 10 kN/m³

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Standard Proctor Density (SPD) ≥ 95 %	Place of installation:	Group	1 (class	A15) - A	reas whi	ich can d	nly be u	sed by pe	edestriar	ns and pe	dal cycli	ists (sing	le wheel	load <1	0 kN) .		
·		-															
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, kN/m ²		63.4	41.2	32.1	28.1	26.5	26.2	26.7	27.6	30.8	34.3	36.2	40.0	44.3	46.3	76.9	118.1
Initial deflection of the pipe after construction, %		3.20	2.78	2.60	2.53	2.50	2.49	2.50	2.51	2.57	2.62	2.65	2.72	2.79	2.82	3.31	3.88
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group	2 (class	B125) -	Pedestri	an areas	and con	nparable	e areas, c	ar parks	or car po	arking d	ecks (sin	gle whee	l load 60) kN) .	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	kN/m²	341.2	197.5	132.1	97.5	77.5	65.3	57.5	52.6	50.9	51.2	51.7	53.9	58.4	60.1	86.1	123.3
Initial deflection of the pipe after construction, %		7.42	5.13	4.09	3.53	3.21	3.02	2.89	2.81	2.78	2.78	2.78	2.81	2.87	2.89	3.17	3.55
Chandrad Duratan Danishta (CDD) > 00.0/	Dia a afinatallatian	Group 3 (class C250) - For gully tops, installed in the area of kerbside channels of roads which, when measured from the kerb ed														rb edge,	
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	extends	a maxir	num of 0	,5 m into	carriag	eway an	d a max	imum of	0,2 m in	to the pe	edestrian	area (si	ngle whe	el load 1	100 kN) .	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	kN/m²	563.4	322.5	212.1	153.1	118.3	96.5	82.2	72.6	68.4	66.7	66.4	68.4	74.7	76.1	94.3	127.8
Initial deflection of the pipe after construction, %		10.96	7.11	5.35	4.41	3.85	3.50	3.28	3.12	3.05	3.01	3.00	3.02	3.11	3.12	3.28	3.61
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	_			_		roads (ii	ncluding	pedestr	ian stree	ts), hard	shoulde	rs and p	arking ai	reas, for a	all type c	ofroad
					ad 120 kl		0.0			4.0		1.5				2.5	
Depth of embedment (H) from the ground surface to		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	kN/m²	674.5	385.0	252.1	180.8	138.7	112.1	94.6	82.6	76.8	73.8	73.1	74.7	81.4	82.6	98.1	130.0
Initial deflection of the pipe after construction, %		12.72	8.10	5.98	4.85	4.17	3.75	3.47	3.28	3.18	3.12	3.10	3.12	3.21	3.22	3.33	3.64

5.38

Initial deflection of the pipe exceeds 5% borderline specified in EN 61386-24 standard (clause 10.2.5)

Notes.

Groups of place of installation according to EN 124-1 standard.

For backfilling of the trench, it is recommended to use G1, G2, G3, G4 soil group material.

Soil groups - according to CEN/TR 1046 standard annex A table A.1.







DN/OD 200 mm

EVOCAB SUPERHARD N1250

Characteristics accepted in the calculations:

Water table level from the top of the ground surface - 0,1 m $\label{eq:condition} \mbox{Unit weight of dry soil - 20 kN/m}^{3}$

Unit weight of wet soil - 11 kN/m³
Unit weight of water - 10 kN/m³

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Standard Proctor Density (SPD) ≥ 95 %	Place of installation:	Group	1 (class	A15) - A	reas wh	ich can c	only be u	sed by p	edestriar	ns and pe	edal cycl	ists (sing	ile wheel	load <1	0 kN) .		
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, kN/m ²		63.9	41.7	32.5	28.5	26.9	26.6	27.1	28.0	31.2	34.8	36.6	40.5	44.7	46.8	77.3	118.5
Initial deflection of the pipe after construction, %		3.62	3.05	2.82	2.72	2.67	2.67	2.68	2.70	2.76	2.83	2.87	2.96	3.05	3.09	3.70	4.40
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group	2 (class	B125) -	Pedestri	an areas	and cor	mparable	e areas, c	ar parks	or car p	arking d	ecks (sin	gle whee	el load 60) kN) .	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	kN/m²	341.6	197.9	132.5	97.9	77.9	65.7	57.9	53.0	51.4	51.6	52.2	54.3	58.9	60.5	86.5	123.7
Initial deflection of the pipe after construction, %		8.92	5.99	4.66	3.96	3.55	3.30	3.14	3.03	2.99	2.98	2.99	3.02	3.09	3.12	3.44	3.88
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:															m the ker 100 kN) .	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	kN/m²	563.9	322.9	212.5	153.5	118.7	96.9	82.6	73.0	68.9	67.1	66.8	68.8	75.1	76.5	94.7	128.2
Initial deflection of the pipe after construction, %		13.41	8.51	6.27	5.07	4.36	3.91	3.62	3.42	3.33	3.28	3.27	3.29	3.39	3.41	3.58	3.94
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	_		D400) - wheel lo	_		roads (i	ncluding	pedestr	ian stree	ts), hard	shoulde	ers and p	arking a	reas, for	all type c	of road
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	N/m^2	675.0	385.4	252.5	181.3	139.1	112.6	95.0	83.0	77.2	74.3	73.5	75.1	81.8	83.0	98.5	130.4
Initial deflection of the pipe after construction, %	·	15.66	9.77	7.07	5.62	4.76	4.22	3.86	3.62	3.49	3.42	3.39	3.41	3.52	3.53	3.64	3.98

5.38

Initial deflection of the pipe exceeds 5% borderline specified in EN 61386-24 standard (clause 10.2.5)

Notes.

Groups of place of installation according to EN 124-1 standard.

For backfilling of the trench, it is recommended to use G1, G2, G3, G4 soil group material.

Soil groups - according to CEN/TR 1046 standard annex A table A.1.







DN/OD 250 mm

EVOCAB SUPERHARD N1250

Characteristics accepted in the calculations:

Water table level from the top of the ground surface - 0,1 m Unit weight of dry soil - 20 kN/m³

> Unit weight of wet soil - 11 kN/m³ Unit weight of water - 10 kN/m³

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Standard Proctor Density (SPD) ≥ 95 %	Place of installation:	Group	1 (class	A15) - A	reas whi	ich can c	nly be u	sed by pe	edestriar	ns and pe	edal cycl	ists (sing	le wheel	load <1	0 kN) .		
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, kN/m ²		64.4	42.2	33.0	29.0	27.4	27.1	27.6	28.5	31.8	35.3	37.1	41.0	45.3	47.3	77.9	119.1
Initial deflection of the pipe after construction, %		3.66	3.09	2.85	2.74	2.70	2.69	2.70	2.72	2.79	2.86	2.90	2.99	3.08	3.13	3.75	4.45
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group	2 (class	B125) -	Pedestri	an areas	and con	nparable	e areas, c	ar parks	or car pe	arking d	ecks (sin	gle whee	el load 60) kN) .	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	:N/m²	342.2	198.4	133.0	98.5	78.4	66.2	58.5	53.5	51.9	52.1	52.7	54.8	59.4	61.0	87.0	124.2
Initial deflection of the pipe after construction, %		9.04	6.07	4.72	4.00	3.58	3.33	3.17	3.06	3.02	3.01	3.02	3.04	3.12	3.14	3.47	3.91
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group extends				-											_
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	N/m^2	564.4	323.4	213.0	154.0	119.3	97.5	83.2	73.5	69.4	67.6	67.4	69.4	75.7	77.0	95.2	128.8
Initial deflection of the pipe after construction, %		13.61	8.63	6.35	5.13	4.41	3.96	3.66	3.46	3.36	3.31	3.30	3.32	3.43	3.44	3.61	3.98
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group vehicles			Carriage ad 120 kl		roads (ii	ncluding	pedestr	ian stree	ts), hard	shoulde	rs and p	arking ai	reas, for	all type o	of road
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	N/m^2	675.5	385.9	253.0	181.8	139.7	113.1	95.5	83.5	77.7	74.8	74.0	75.6	82.3	83.5	99.0	130.9
Initial deflection of the pipe after construction, %		15.90	9.91	7.17	5.69	4.82	4.27	3.90	3.66	3.52	3.45	3.43	3.44	3.55	3.56	3.67	4.01

5.38

Initial deflection of the pipe exceeds 5% borderline specified in EN 61386-24 standard (clause 10.2.5)

Notes.

Groups of place of installation according to EN 124-1 standard.

For backfilling of the trench, it is recommended to use G1, G2, G3, G4 soil group material.

Soil groups - according to CEN/TR 1046 standard annex A table A.1.







DN/OD 315 mm

EVOCAB SUPERHARD N1250

Characteristics accepted in the calculations:

Water table level from the top of the ground surface - 0,1 m Unit weight of dry soil - 20 kN/m³

Unit weight of wet soil - 11 kN/m³
Unit weight of water - 10 kN/m³

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Standard Proctor Density (SPD) ≥ 95 %	Place of installation:	Group	1 (class	A15) - A	reas whi	ch can c	nly be u	sed by pe	edestriar	ns and pe	edal cycl	ists (sing	le wheel	load <1	0 kN) .		
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, kN/m ²		65.1	42.9	33.7	29.7	28.1	27.8	28.3	29.2	32.4	36.0	37.8	41.7	45.9	48.0	78.5	119.7
Initial deflection of the pipe after construction, %		3.77	3.16	2.91	2.80	2.76	2.75	2.76	2.78	2.85	2.92	2.97	3.05	3.15	3.20	3.84	4.56
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group	2 (class	B125) -	Pedestri	an areas	and con	nparable	areas, c	ar parks	or car p	arking d	ecks (sin	gle whee	el load 60) kN) .	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	N/m^2	342.8	199.1	133.7	99.1	79.1	66.9	59.1	54.2	52.6	52.8	53.4	55.5	60.1	61.7	87.7	124.9
Initial deflection of the pipe after construction, %		9.34	6.25	4.84	4.09	3.66	3.39	3.23	3.12	3.07	3.06	3.07	3.10	3.17	3.20	3.53	3.97
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group extends			For gully),5 m into	-											_
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	N/m^2	565.1	324.1	213.7	154.7	119.9	98.1	83.8	74.2	70.1	68.3	68.0	70.0	76.3	77.7	95.9	129.5
Initial deflection of the pipe after construction, %		14.10	8.91	6.54	5.27	4.52	4.05	3.74	3.53	3.43	3.37	3.36	3.38	3.49	3.51	3.67	4.05
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group vehicles			Carriage ad 120 kl		roads (ii	ncluding	pedestr	ian stree	ts), hard	shoulde	rs and p	arking ai	reas, for	all type c	of road
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	N/m^2	676.2	386.6	253.7	182.5	140.4	113.8	96.2	84.2	78.4	75.5	74.7	76.3	83.0	84.2	99.7	131.6
Initial deflection of the pipe after construction, %		16.48	10.24	7.39	5.85	4.94	4.37	3.99	3.73	3.60	3.52	3.49	3.51	3.62	3.64	3.74	4.08

5.38

Initial deflection of the pipe exceeds 5% borderline specified in EN 61386-24 standard (clause 10.2.5)

Notes.

Groups of place of installation according to EN 124-1 standard.

For backfilling of the trench, it is recommended to use G1, G2, G3, G4 soil group material.

Soil groups - according to CEN/TR 1046 standard annex A table A.1.







DN/OD 400 mm

EVOCAB SUPERHARD N1250

Characteristics accepted in the calculations:

Water table level from the top of the ground surface - 0,1 m Unit weight of dry soil - 20 kN/m³

> Unit weight of wet soil - 11 kN/m³ Unit weight of water - 10 kN/m³

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Standard Proctor Density (SPD) ≥ 95 %	Place of installation:	Group	1 (class	A15) - A	reas whi	ich can c	only be u	sed by p	edestriar	ns and pe	edal cycl	ists (sing	ile wheel	load <1	0 kN) .		
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, kN/m ²		66.0	43.8	34.6	30.6	29.0	28.7	29.2	30.1	33.3	36.9	38.7	42.6	46.8	48.9	79.4	120.6
Initial deflection of the pipe after construction, %		3.79	3.19	2.94	2.82	2.78	2.77	2.78	2.80	2.87	2.95	2.99	3.08	3.17	3.22	3.86	4.58
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group	2 (class	B125) -	Pedestri	an areas	and cor	nparable	e areas, c	ar parks	or car p	arking d	ecks (sin	gle whee	l load 60) kN) .	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	N/m^2	343.7	200.0	134.6	100.0	80.0	67.8	60.0	55.1	53.5	53.7	54.3	56.4	61.0	62.6	88.6	125.8
Initial deflection of the pipe after construction, %		9.36	6.26	4.86	4.11	3.68	3.41	3.24	3.14	3.09	3.08	3.09	3.11	3.19	3.22	3.54	3.99
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group	3 (class	C250) -	For gully	tops, in	stalled ir	the are	a of kerb	side cha	nnels of	roads wi	hich, wh	en meas	ured fror	n the ker	rb edge,
Standard Proctor Density (3PD) 2 98 %	riace of ilistaliation.	extends	a maxir	num of 0),5 m into	o carriag	eway an	d a max	imum of	⁶ 0,2 m in	to the pe	edestriar	area (si	ngle whe	el load	100 kN) .	
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	:N/m²	566.0	325.0	214.6	155.6	120.8	99.0	84.7	75.1	71.0	69.2	68.9	70.9	77.2	78.6	96.8	130.3
Initial deflection of the pipe after construction, %		14.12	8.93	6.56	5.28	4.54	4.06	3.76	3.55	3.44	3.39	3.38	3.40	3.51	3.53	3.69	4.06
Standard Proctor Density (SPD) ≥ 98 %	Place of installation:	Group	4 (class	D400) -	Carriage	eways of	roads (i	ncluding	pedestr	ian stree	ts), hard	shoulde	rs and p	arking aı	eas, for	all type c	of road
Standard Proctor Density (3PD) 2 98 %	Flace of Histaliation.	vehicles	(single	wheel lo	ad 120 kl	N) .											
Depth of embedment (H) from the ground surface to	the top of the pipe, m	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	3.5	5.5
Total vertical load (Q) to the pipe after construction, k	:N/m²	677.1	387.5	254.6	183.4	141.2	114.7	97.1	85.1	79.3	76.4	75.6	77.2	83.9	85.1	100.6	132.5
Initial deflection of the pipe after construction, %		16.50	10.26	7.41	5.87	4.96	4.39	4.01	3.75	3.61	3.54	3.51	3.53	3.64	3.65	3.75	4.10

5.38

Initial deflection of the pipe exceeds 5% borderline specified in EN 61386-24 standard (clause 10.2.5)

Notes.

Groups of place of installation according to EN 124-1 standard.

For backfilling of the trench, it is recommended to use G1, G2, G3, G4 soil group material.

Soil groups - according to CEN/TR 1046 standard annex A table A.1.



