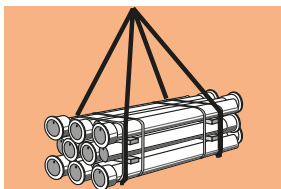


# Handling



The contractor is responsible for analyzing and eliminating any risks during installation (especially the use of personal protective equipment).

## 1 BASIC ADVICE

To avoid damaging the products:

- **Use** lifting equipment that is capable of supporting the weights specified in the tables below.
- **Prevent** pipes from banging or rubbing against the trailer's sides and pillars.
- **Lift and move** the pipes gently to prevent any swinging.
- **Do not drag** pipes across the ground and do not let pipes fall to the ground.

## 2 BUNDLE WEIGHTS AND DIMENSIONS

DN	No. layers x no. pipes	L	W	H	Bundle weight NATURAL/ BLUTOP	INTEGRAL/ TOPAZ bundle weight
		m	m	m	kg	kg
60	4 x 6	6.33	0.54	0.49	1356	
75	5 x 6	6.3	0.51	0.59	921	921
80	3 x 5	6.33	0.56	0.42	1098	1188
90	5 x 6	6.3	0.59	0.63	1122	1122
100	3 x 5	6.33	0.67	0.50	1337	1459
110	4 x 5	6.3	0.63	0.71	962	962
125	3 x 4	6.33	0.65	0.58	1040	1447
125	4 x 5	6.3	0.68	0.65	1034	1034
140	4 x 4	6.3	0.63	0.53	902	902
150	3 x 3	6.3	0.59	0.66	1196	1290
160	3 x 4	6.3	0.63	0.63	901	907
200	2 x 3	6.3	0.75	0.56	1087	1134
250	2 x 2	6.3	0.63	0.67	1013	984
300	2 x 2	6.3	0.74	0.77	1333	1234

NATURAL/ INTEGRAL
  BLUTOP/ TOPAZ

## 3 PIPE UNIT WEIGHT

DN	pipe length (m)		pipe weight (kg)			
	working	overall	NATURAL CLASSIC	BLUTOP TOPAZ	UNIVERSAL All versions	INTEGRAL PLUVIAL
60	6.00	6.09	56.5			
75	6.00	6.11		30.6		
80	6.00	6.09	73.2		94.8 C100	79.8
90	6.00	6.13		37.2		
100	6.00	6.09	89.10		116.7 C100	97.3
110	6.00	6.15		45.6		
125	6.00	6.10	109.8		144.3 C64	120.0
125	6.00	6.16		53.4		
140	6.00	6.18		60.0		
150	6.00	6.10	132.9		173.8 C64	143.3
160	6.00	6.20		70.8		
200	6.00	6.10	181.2		239.2 C64	192.1
250	6.00	6.10	253.3		311.4 C50	254.9
300	6.00	6.11	333.3		401.3 C50	308.1
350	6.00	6.11	413.0		498.5 C40	393.4
400	6.00	6.11	476.4		586.5 C40	465.0
450	6.00	6.11	562.8		700.3 C40	506.5
500	6.00	6.12	666.9		831.2 C40	632.4
600	6.00	6.12	903.4		1121.2 C40	821.4
700	7.00	7.15	1295.1		1368.0 C30	1383.8
800	7.00	7.15	1591.7		1915.5 C30	1692.9
900	7.00	7.15	1940.2		2332.1 C30	2025.7
1000	7.00	7.16	2323.0		2696.6 C30	2386.5
1000	8.27	8.43	2712.3			C30 2787.3
1100	8.27	8.43	3238.1			3605.8
1200	8.26	8.43	3775.9		4250.8 C25	4154.9
1400	8.19	8.44	5182.5		5601.8 C25	5546.9
1500	8.18	8.45	5877.8		6330.8 C25	6240.1
1600	8.18	8.45	6589.4		7069.4 C25	6946.4
1800	8.17	8.45	8109.7		8602.4 C25	8444.9
2000	8.17	8.45	9837.6		10486.1 C25	10099.3

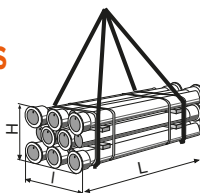
The preferred classes for NATURAL and CLASSIC pipes are as follows:

- C40 for DN 60 to 300
- C30 for DN 350 to 600
- C40 for DN 700 to 2000

## 4 DN 60 TO 300: LIFTING BUNDLES

Use textile slings suited to the load.

Ensure that the slings support the bundle from underneath.



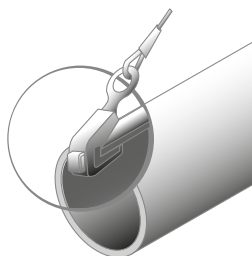
**Caution! Never lift a bundle with hooks or vacuum pads. The straps used to secure the bundles are not designed to withstand the load.**

# Handling

## 4 DN 350 TO 2000: LIFTING BY THE ENDS

Use hooks that are suited to the load. Hooks must offer a secure attachment and a **protective surface\*** (such as polyamide).

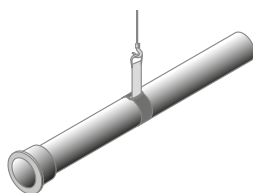
*\*Hooks available on order.*



*Caution: hooks are designed to lift single pipes and not a bundle of several pipes.*

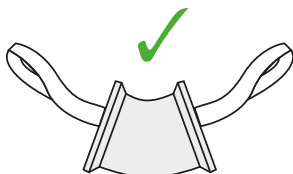
## 5 DN 350 TO 2000: LIFTING BY THE PIPE BARREL

Use a **textile sling** suited to the load. **Attach** the belt to the **center of gravity** and ensure that it does not slip.



## 6 HANDLING FITTINGS

Use textile slings to avoid damaging the internal lining and the external coating of the fittings.



*Flanged fittings can be lifted using hooks attached to the holes in the flanges.*

