



\_\_\_\_\_ ( \_\_\_\_\_ )  
 \_\_\_\_\_ - \_\_\_\_\_  
 \_\_\_\_\_ )

: 11.02.02.06

1/2019

( )

: 300.050,00 € ( 24%)

( ' ( ' ) -  
**63)**

1) \_\_\_\_\_ - \_\_\_\_\_  
 \_\_\_\_\_ μ μ 90,  
 \_\_\_\_\_ μ \_\_\_\_\_  
 \_\_\_\_\_ (PVC, μ \_\_\_\_\_,  
 \_\_\_\_\_ ), μ μ μ \_\_\_\_\_  
 \_\_\_\_\_ μ ( \_\_\_\_\_ -  
 \_\_\_\_\_ μ )

: 6732.1: 100%

( μ , μ \_\_\_\_\_ ( \_\_\_\_\_ ),  
 \_\_\_\_\_ μ μ 90, \_\_\_\_\_ μ \_\_\_\_\_,  
 \_\_\_\_\_ μ μ \_\_\_\_\_ (PVC, μ \_\_\_\_\_ ),  
 \_\_\_\_\_ μ μ μ \_\_\_\_\_,  
 \_\_\_\_\_ μ \_\_\_\_\_,  
 \_\_\_\_\_ μ ( \_\_\_\_\_ - μ )

\_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_ :  
 ) \_\_\_\_\_ μ \_\_\_\_\_ , μ \_\_\_\_\_

\_\_\_\_\_ μ \_\_\_\_\_ (μ μ μ μ  
 \_\_\_\_\_ ) μ μ μ (μ μ μ μ  
 μ μ \_\_\_\_\_ ), μ μ μ 08-01-03-01  
 μ μ μ

\_\_\_\_\_ μ μ \_\_\_\_\_ μ ( \_\_\_\_\_ )  
 \_\_\_\_\_ μ μ \_\_\_\_\_ μ μ \_\_\_\_\_  
 \_\_\_\_\_ μ μ \_\_\_\_\_ , \_\_\_\_\_ μ μ \_\_\_\_\_  
 μ , \_\_\_\_\_ μ ( \_\_\_\_\_ ) . μ μ

)  
 08-01-03-02”  
 )

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30 cm, 08-01-03-02”  
 )  
 )  
 )  
 )  
 )  
 )  
 )  
 )  
 )  
 )  
 )

- Modified EN 13286-2).
- 1. 15 cm
  - 2.
  - 3. 50 mm









- 2.2. ( )
- 2.3. ( ) /
- 2.4. ( ),
- 2.5. B500C. ( )

01-01-01-00:  
 01-01-02-00:  
 01-01-03-00:  
 01-01-04-00:  
 01-01-05-00:  
 01-01-07-00:

90  
 ( )

( ):  
 ( ):265,00 €

3 (	3)	-
		140
	160,	
		(PVC, )
		( -
		)

: 6732.1: 100%

( , )  
 ( )  
 140 160,  
 (PVC, )







2.2. ( )  
 2.3. /  
 2.4. ( ),  
 2.5. B500C.

- 01-01-01-00:
- 01-01-02-00:
- 01-01-03-00:
- 01-01-04-00:
- 01-01-05-00:
- 01-01-07-00:

\_\_\_\_\_ ( ):  
 \_\_\_\_\_ ( ):280,00 €

4 (	4)	-
		200
225,		
		(PVC, )
		)

\_\_\_\_\_ ( \_\_\_\_\_ )  
\_\_\_\_\_ )

: 6732.1: 100%

( \_\_\_\_\_ , \_\_\_\_\_ )  
( \_\_\_\_\_ \_\_\_\_\_ 200 \_\_\_\_\_ 225, \_\_\_\_\_ )  
\_\_\_\_\_ (PVC, \_\_\_\_\_ )  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
( \_\_\_\_\_ - \_\_\_\_\_ )  
\_\_\_\_\_ :  
) \_\_\_\_\_ , \_\_\_\_\_

\_\_\_\_\_, \_\_\_\_\_ ( \_\_\_\_\_ \_\_\_\_\_ )  
\_\_\_\_\_ ) \_\_\_\_\_ ( \_\_\_\_\_ \_\_\_\_\_ )  
“ \_\_\_\_\_ ) \_\_\_\_\_ ” \_\_\_\_\_ 08-01-03-01  
\_\_\_\_\_

\_\_\_\_\_ . \_\_\_\_\_  
\_\_\_\_\_ ) \_\_\_\_\_  
\_\_\_\_\_ , \_\_\_\_\_ \_\_\_\_\_  
\_\_\_\_\_ , \_\_\_\_\_ \_\_\_\_\_  
\_\_\_\_\_ ( \_\_\_\_\_ )  
\_\_\_\_\_ . \_\_\_\_\_  
\_\_\_\_\_ . \_\_\_\_\_

) \_\_\_\_\_  
08-01-03-02” \_\_\_\_\_  
\_\_\_\_\_ : \_\_\_\_\_  
\_\_\_\_\_ . \_\_\_\_\_  
\_\_\_\_\_ . \_\_\_\_\_  
\_\_\_\_\_ , \_\_\_\_\_

) \_\_\_\_\_  
\_\_\_\_\_ , \_\_\_\_\_  
30 cm, \_\_\_\_\_ \_\_\_\_\_ 08-01-03-02 ” \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ \_\_\_\_\_  
\_\_\_\_\_ \_\_\_\_\_  
\_\_\_\_\_ \_\_\_\_\_  
\_\_\_\_\_ 30 cm, \_\_\_\_\_ ( \_\_\_\_\_ )  
) \_\_\_\_\_ \_\_\_\_\_



2.1. ( ) 206-1, ( , 206-1, )  
 ( , )  
 ( , )  
 ( , )

2.2. ( )  
 ( , )

2.3. ( ) / ( , )

2.4. ( ) , ( )

2.5. B500C. ( ) ( ) ( )

- 01-01-01-00: ( )
- 01-01-02-00: ( )
- 01-01-03-00: ( )
- 01-01-04-00: ( )
- 01-01-05-00: ( )
- 01-01-07-00: ( )

90	( )
( )	:300,00 €

5 (

5)

\_\_\_\_\_

\_\_\_\_\_ μ μ 250

280, \_\_\_\_\_ μ \_\_\_\_\_,

(PVC, μ \_\_\_\_\_,

\_\_\_\_\_) , μ μ μ \_\_\_\_\_

\_\_\_\_\_ μ \_\_\_\_\_ ( \_\_\_\_\_

\_\_\_\_\_ μ ) \_\_\_\_\_

: 6732.1: 100%

( μ , μ \_\_\_\_\_ ( \_\_\_\_\_ ),

μ μ 250 280, μ \_\_\_\_\_,

\_\_\_\_\_ μ μ \_\_\_\_\_ (PVC, μ \_\_\_\_\_,

\_\_\_\_\_) , μ μ μ \_\_\_\_\_

\_\_\_\_\_ , \_\_\_\_\_ μ \_\_\_\_\_

\_\_\_\_\_ μ \_\_\_\_\_

( \_\_\_\_\_ - μ ) \_\_\_\_\_ :

\_\_\_\_\_ μ μ \_\_\_\_\_ :

) μ \_\_\_\_\_ , μ \_\_\_\_\_

\_\_\_\_\_ , μ \_\_\_\_\_ (μ μ μ μ \_\_\_\_\_)

\_\_\_\_\_ ) \_\_\_\_\_ (μ μ μ μ \_\_\_\_\_)

” μ μ \_\_\_\_\_ ) , μ μ μ \_\_\_\_\_ 08-01-03-01

\_\_\_\_\_ μ \_\_\_\_\_

\_\_\_\_\_ μ μ \_\_\_\_\_ μ ( \_\_\_\_\_)

\_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_

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) \_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_ μ μ μ \_\_\_\_\_

08-01-03-02” \_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_

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\_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_ μ \_\_\_\_\_

) \_\_\_\_\_ μ \_\_\_\_\_ \_\_\_\_\_

---

30 cm, μ μ μ μ μ μ μ μ μ μ



- )
- 1. 15 cm
- 2. 206-1,
- 2.1 ( ) ( , 206-1),
- 2.2 ( )
- 2.3 ( ) /
- 2.4 ( )
- 2.5 B500C.

01-01-01-00:  
 01-01-02-00:  
 01-01-03-00:  
 01-01-04-00:  
 01-01-05-00:  
 01-01-07-00:





30 cm, 08-01-03-02

Modified EN 13286-2). 95% Proctor (Proctor

- 1. 15 cm
2.
3. 50 mm
4. 50 mm.
5.

- 1. 

15 cm
- 2. 

206-1,
- 2.1 

206-1),
- 2.2. 

A
- 2.3. 

(
- 2.4. 

(
- 2.5. 

B500C,



)  
 08-01-03-02”  
 )

---

30 cm, 08-01-03-02”

) 30 cm, ( 95% Proctor (Proctor

Modified EN 13286-2).

)  
 )  
 )  
 )  
 )

1. 15 cm
2. 50 mm
3. 50 mm





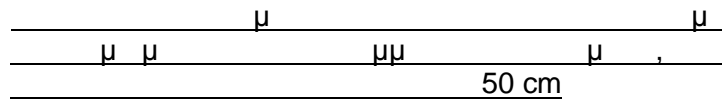






3,00 m, 4,00 m.  
 ( ):  
 ( ):27,35 €

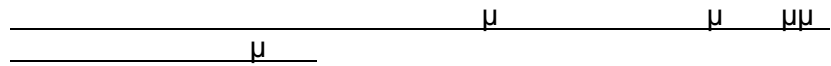
. . 11 ( 5.05.02)



6068: 100%

08-01-03-02 ”  
 30 cm,  
 ( )  
 95%  
 Modified EN 13286-2).  
 (m<sup>3</sup>)  
 50 cm  
 ( ):  
 ( ):15,50 €

. . 12 ( 5.07)



6069: 100%

08-01-03-02  
 :  
 .  
 .  
 .  
 .





DN 63 mm / 10 atm

4,60 €

12.14.01.84

100	MPa)	DN 63 mm /	25 atm	E
MRS10 = 10				

6622.1: 100%

12201-2 (PE100, PE 80, PE40), DN(OD), SDR (Standard Dimension Ratio: -extrusion-, peelable layer).

MRS (MRS: Minimum Required Strength) : PE100 - MRS 10 MPa, PE80 - MRS 8 MPa, PE 40 - MRS 4 MPa.

EN 12201-2, (PE100, PE 80, PE40), SDR

(SDR)

W/P =

layer) (peelaable)

butt welding)

. μ μ , μ μ . μ  
 μ μ μ , μ μ  
 μ μ μ μ μ  
 μ μ μ , μ μ μ , :  
 μ MRS10 = 10 MPa), μ μ E 100 (μ  
 12201-2 μ DN 63 mm / μ. 25 atm  
 ———( μ ):  
 ( μ ):7,00 €

---

. . 16 ( 12.14.01.06) E

100 (μ μ MRS10 = 10 MPa), μ μ μ , 12201-2, ο μ.
μ DN 90 mm / 10 atm

6621.1: 100%

12201-2 μ μ ( ) μ μ  
 μ ( ) μ μ DN ( μ μ (PE100, PE 80, PE40), μ μ :  
 DN/OD), μ μ SDR (Standard Dimension Ratio:  
 μ μ ( μ -extrusion-, μ μ  
 peelable layer).  
 O μ (PE100, PE 80, PE40)  
 μ μ MRS (MRS: Minimum Required Strength)  
 : PE100 - MRS 10 MPa, PE80 - MRS 8 MPa, PE 40 - MRS 4 MPa.

μ μ EN 12201-2, μ μ μ μ μ μ  
 μ SDR (PE100, PE 80, PE40), μ μ μ μ  
 μ μ (SDR)  
 μ μ : W = μ μ , = ,  
 , W/P = μ μ .

μ μ μ .

layer)  $\mu$   $\mu$   $\mu$  (peelaable  $\mu$ )  
 $\mu$   $\mu$   $\mu$  :  
 $\mu$   $\mu$  ,  $\mu$  ,  $\mu$  ,  $\mu$  ,  
 $\mu$   $\mu$   $\mu$  .  
 $\mu$   $\mu$  ,  $\mu$  .  
 (butt welding)  $\mu$   $\mu$  ,  $\mu$   $\mu$  .  
 $\mu$   $\mu$  ,  $\mu$   $\mu$   $\mu$   $\mu$  .  
 $\mu$   $\mu$   $\mu$  ,  $\mu$   $\mu$   $\mu$  .  
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$  .  
 $\mu$   $\mu$  ,  $\mu$   $\mu$   $\mu$  ,  $\mu$  :  
 $\mu$  MRS10 = 10 MPa),  $\mu$   $\mu$  E 100 ( $\mu$   
 12201-2  $\mu$  DN 90 mm /  $\mu$  10 atm  
 (  $\mu$  ): **7,60 €**

. . 17 ( **12.14.01.07** ) E  
 $\mu$   $\mu$   $\mu$   $\mu$  MRS10 = 10  
 $\mu$  (MPa),  $\mu$   $\mu$   $\mu$  , 12201-2, o  $\mu$ .  
 $\mu$  DN 110 mm / 10 atm  
 6621.1: 100%  
 12201-2  $\mu$   $\mu$  ( )  $\mu$   $\mu$  ,  
 $\mu$  ( )  $\mu$   $\mu$  DN (  $\mu$  (PE100, PE 80,  
 PE40), DN/OD),  $\mu$   $\mu$  SDR (Standard Dimension Ratio:  
 $\mu$   $\mu$  (  $\mu$  -extrusion-,  
 peelable layer).  
 O  $\mu$  (PE100, PE 80, PE40)  
 $\mu$  MRS (MRS: Minimum Required)

Strength) : PE100 - MRS 10 MPa, PE80 - MRS 8 MPa, PE 40 - MRS 4 MPa.

EN 12201-2, (PE100, PE 80, PE40), (SDR)

, W/P = : W = , = ,

(peelaable layer)

(butt welding)

MRS10 = 10 MPa), E 100 (μ

12201-2 DN 110 mm / 10 atm

( ):10,10 €



18 ( 12.14.01.08)

100 (MPa),	MRS10 = 10	E
DN 125 mm /	10 atm	12201-2, o

6621.2: 100%

12201-2 (PE100, PE 80, PE40), DN/OD), SDR (Standard Dimension Ratio: -extrusion-, peelable layer).

O (PE100, PE 80, PE40) MRS (MRS: Minimum Required Strength) : PE100 - MRS 10 MPa, PE80 - MRS 8 MPa, PE 40 - MRS 4 MPa.

EN 12201-2, (PE100, PE 80, PE40), SDR

(SDR)

, W/P =

(peelaable layer)

:

,

(butt welding)

,

12201-2 (PE100, PE 80, PE40), DN 125 mm / 10 atm  
 MRS10 = 10 MPa, E 100 (μ)  
 ( ): 11,90 €

12.14.01.09	E
100 (μ MRS10 = 10 MPa), μ μ μ , 12201-2, o μ.	
μ DN 140 mm / 10 atm	

6621.2: 100%

12201-2 (PE100, PE 80, PE40), DN ( μ SDR (Standard Dimension Ratio: -extrusion-, peelable layer).  
 (PE100, PE 80, PE40)  
 MRS (MRS: Minimum Required Strength) : PE100 - MRS 10 MPa, PE80 - MRS 8 MPa, PE 40 - MRS 4 MPa.

EN 12201-2, (PE100, PE 80, PE40), μ μ μ  
 μ SDR μ (SDR)  
 : W/P = μ , =  
 μ μ μ (peelaable layer) μ μ  
 μ μ :



EN 12201-2, (PE100, PE 80, PE40), SDR

W/P = : W = , =

layer) (peelaable

(butt welding)

MRS10 = 10 MPa), E 100 (μ

DN 160 mm / 10 atm

( ): 17,30 €

.. 21 ( 12.14.01.11)

			E
100 (MPa),	$\mu$	$\mu$	MRS10 = 10
$\mu$	$\mu$	$\mu$	12201-2, o $\mu$ .
$\mu$	DN 200 mm /	10 atm	

6621.4: 100%

12201-2  $\mu$   $\mu$  ( )  $\mu$   $\mu$  ,  
 $\mu$  ( )  $\mu$  (PE100, PE 80, PE40),  
 DN/OD),  $\mu$   $\mu$  DN (  $\mu$  :  
 $\mu$  SDR (Standard Dimension Ratio:  
 $\mu$  ) ( -extrusion-,  
 $\mu$  ,  $\mu$  )  $\mu$  -  
 peelable layer).  
 O  $\mu$  (PE100, PE 80, PE40)  
 $\mu$  MRS (MRS: Minimum Required  
 Strength) : PE100 - MRS 10 MPa, PE80 - MRS 8 MPa, PE 40 - MRS 4  
 MPa.

$\mu$   $\mu$  EN 12201-2,  $\mu$   
 $\mu$  SDR (PE100, PE 80, PE40),  $\mu$   $\mu$   $\mu$   
 $\mu$  (SDR)  
 $\mu$  : W =  $\mu$  , = ,  
 , W/P = .  
 $\mu$   $\mu$   $\mu$  (peelaable  
 layer)  $\mu$   $\mu$  ,  $\mu$   $\mu$   
 $\mu$   $\mu$  :  
 $\mu$  ,  $\mu$  ,  
 $\mu$   $\mu$  ,  
 $\mu$   $\mu$  .  
 $\mu$  ,  $\mu$  ,  
 (butt welding)  $\mu$   $\mu$  ,  $\mu$   $\mu$  .  
 $\mu$   $\mu$  ,  $\mu$   $\mu$   $\mu$   
 $\mu$   $\mu$  ,  $\mu$   $\mu$

12201-2  
 DN 200 mm / 10 atm  
 MRS10 = 10 MPa), E 100 (μ  
 ):23,80 €

12.14.01.56	E
100 (μ MRS10 = 10 MPa), μ μ μ , 12201-2, o μ.	
μ DN 355 mm / 16 atm	

6622.3: 100%

12201-2 ( ) μ μ ,  
 (PE100, PE 80, PE40), μ μ DN ( μ :  
 DN/OD), μ SDR (Standard Dimension Ratio:  
 μ ) ( -extrusion-,  
 μ , μ μ peelable layer).  
 O μ (PE100, PE 80, PE40)  
 μ MRS (MRS: Minimum Required  
 Strength) : PE100 - MRS 10 MPa, PE80 - MRS 8 MPa, PE 40 - MRS 4 MPa.

μ μ EN 12201-2, μ μ μ  
 μ SDR (PE100, PE 80, PE40), μ μ μ  
 μ (SDR)  
 μ : W = μ , =  
 , W/P = μ  
 μ μ (peelaable  
 layer) μ μ μ  
 μ μ :



. 24 (

8)

	μ	μ
	,	μ
μ	,	μ
μ		μ

6622.1 (70%)

6611.1 (30%) +

μ , ' μ μ ,

μ μ μ μ :

μ μ μ μ μ μ μ μ ( , μ μ ,

μ μ μ μ μ μ μ μ μ μ μ μ

( μ μ ) μ μ μ μ μ μ

μ μ μ μ μ μ μ μ μ μ μ μ ,

( μ ):

( μ ):**100,00 €**

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T.Y

04/11/2019

04/11/2019

Sc