

Pillar Fire Hydrant Mod. Apollo RP (breakable system)

This was the first model designed and manufactured by our company.

Completely made of GS 400 it is produced in a standard execution with duck foot bend and mobile flanges, axial fitting available on request.

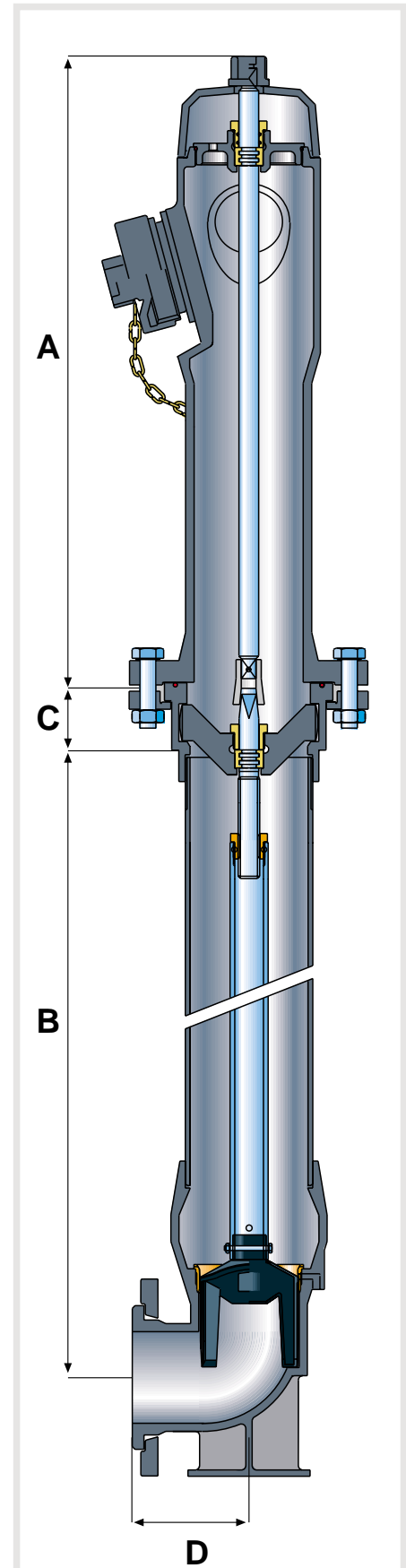
The product shines in reliability and safety given by a patented driving box and its breakable system. As far as the Italian market is concerned the upper body outlet are protected by caps with pentagonal nuts, yet we can provide our hydrant with different types of outlets conform to the standards of the country they have to be shipped to (i.e. Storz, Guillermin, B.S., etc).

The upper body is replaceable with the one from our RPC Mod.



Technical features:

- **Upper body, cap, taps and nuts** in GS 400-12 internally and externally epoxy coated with RAL 3000 red polyester powder
- **Lower body, pipe, duck foot bend and mobile flanges** in GS 400-12 totally coated with black epoxy powder
- **Outlets, bearings and threaded screw** in brass
- **Wedge** in GS 400-12 completely coated in rubberised NBR
- **Driving shaft, extension pipe and standpipe** in stainless steel
- **Female screw and sealing seat** in bronze
- **Gaskets** in NBR
- **Bolts and chains** in stainless steel



Modello	A	B	C	D	Altezza totale	No. e DN delle bocche	Flangia d'attacco PN 16	Pesi
RP 80X		690			1445			49
RP 80A		800			1555			52
RP 80B	705	1010	50	130	1765	2 Ø 70	DN 80	56
RP 80C		1240			1995			60
RP 80D		1440			2195			63
RP 100X		690			1490			65
RP 100A		790			1590			70
RP 100B	750	1030	50	180	1830	2 Ø 70 +	DN 100	76
RP 100C		1230			2030	1 Ø 100		81
RP 100D		1430			2230			86

Fire hydrants with cap Mod. Apollo RPC

Completely made of GS 400 it is produced in a standard execution with duck foot bend and mobile flanges, axial fitting available on request.

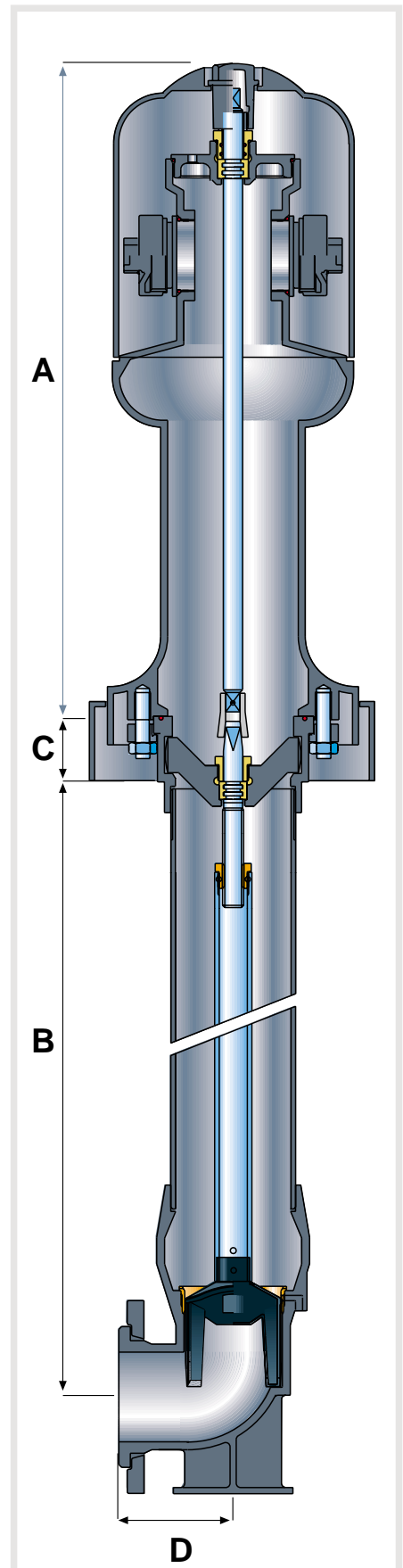
Designed by a well known architect it can be placed either in historical centers or modern urban areas. Thanks to its pleasant appearance and compact design our RPC Mod. would fit every scenario of urban development, as well as to meet the highest standard of safety regulations because it can be accessed by authorized personnel only.

Its screw outlet are protected by a large cap in GS 400. The upper body is replaceable with the one from our RP Mod.



Technical features:

- **Upper body, protective cap, taps and nuts** in GS 400-12 internally and externally epoxy coated with RAL 3000 red polyester powder
- **Lower body, pipe, duck foot bend and mobile flanges** in GS 400-12 totally coated with black epoxy powder
- **Outlets, bearings and threaded screw** in brass
- **Wedge** in GS 400-12 completely coated in rubberised NBR
- **Driving shaft, extension pipe and standpipe** in stainless steel
- **Female screw and sealing seat** in bronze
- **Gaskets** in NBR
- **Bolts and chains** in stainless steel



Modello	A	B	C	D	Altezza totale	No. e DN delle bocche	Flangia d'attacco PN 16	Pesi
RPC 80X		690			1475			63
RPC 80A		800			1585			67
RPC 80B	735	1010	50	130	1795	2 Ø 70	DN 80	69
RPC 80C		1240			2025			73
RPC 80D		1440			2225			76
RPC 100X		690			1515			84
RPC 100A		790			1615			89
RPC 100B	775	1030	50	180	1855	2 Ø 70 +	DN 100	95
RPC 100C		1230			2055	1 Ø 100		100
RPC 100D		1430			2255			105

Pillar fire hydrants Mod. Apollo CS inox (s.s.)

This model, whose pillar is entirely in stainless steel, was released in 2000 at the water works fair (H2O) in Ferrara to complete the CSA range of pillar fire hydrants. Conform to the UNI 9485 standard they represent the evolution of a traditional pillar fire hydrant like our mod.CS against the risk of corrosion and particular environmental conditions.

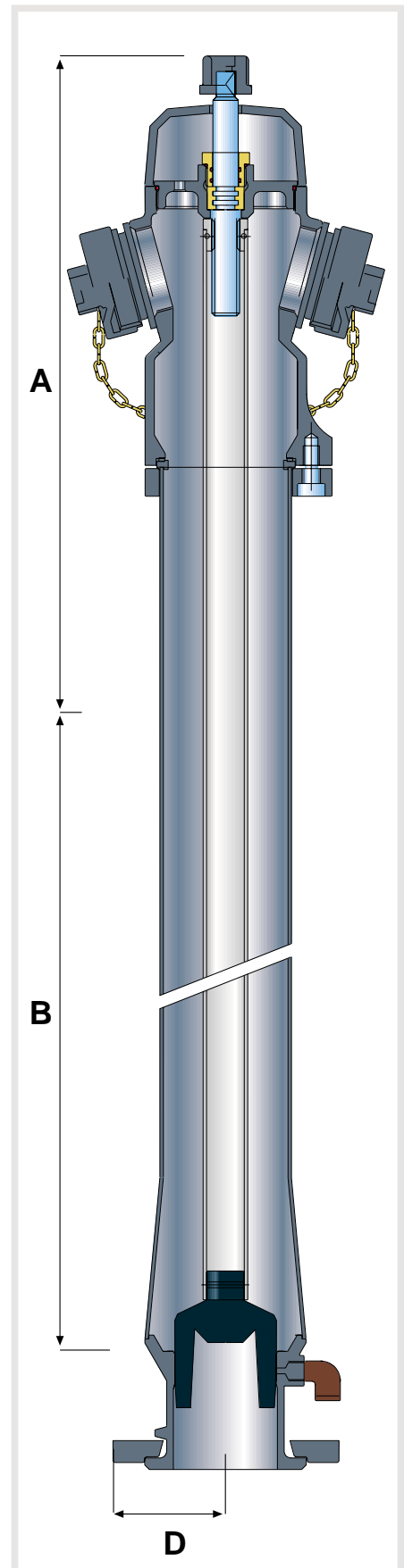
The special junction, between upper body and stand pipe in stainless steel, allows a 360° adjustment of the outlets.



Technical features

- **Upper body, protective cap, taps, mobile flanges and nuts** in GS 400-12 internally and externally epoxy coated with RAL 3000 red polyester powder.
- **Pillar, axial connection** stainless steel AISI 304 (316 on request).
- **Outlets, bearings and threaded screw** in brass.
- **Wedge** in GS 400-12 completely coated in rubberised NBR.
- **Driving shaft, extension pipe and standpipe** in stainless steel.
- **Female screw** in bronze.
- **Gaskets** in NBR.
- **Bolts and chains** in stainless steel.

Modello	A	B	C	Altezza totale	No. e DN delle bocche	Flangia d'attacco PN 16	Pesi
CS-I 80A		800		1535			37
CS-I 80B	735	1010	-	1745	2 Ø 70	DN 80	38
CS-I 80C		1240		1975			40
CS-I 80D		1440		2175			42
CS-I 100A		790		1565	2 Ø 70		53
CS-I 100B	775	1030	-	1805	+ 1 Ø 100	DN 100	58
CS-I 100C		1230		2005			60
CS-I 100D		1430		2205			62



Underground Fire Hydrant Series Plutone DN 80 Mod. 500 and 700



Mod. 500



Mod. 700

To achieve the accomplishment of the series Plutone we decided to follow the design of a conventional underground fire hydrant yet making use of the latest technological advance in order to obtain a safe and reliable product, extremely competitive.

The 500 and 700 models are totally conform to the UNI 9486 standard and to the fire hydrants European regulation project.

Main features

In keeping with the Italian provision UNI 9486 and the European provision EN 1074/6

Construction entirely made of GS 400 to obtain strengthen its mechanical resistance against internal overpressures due to the water hammer effect. The connection between the driving cap and the wedge is carried out by means of a special set of internal components completely made of stainless steel. Thanks to that they can actually set the wedge in motion being protected from wear of friction by means of mechanical pieces in bronze and brass. The wedge, in GS 400 completely NBR rubberized and expressly designed to prevent vibrations and water hammer effect, represents the core of the hydrant also thanks to its automatic anti freezing device. The anti freezing device is a small diameter hole well protected and obtained into the sealing seat closed by the central bulge of one of the wedge's wing when the hydrant is opening. It is important to notice that this simple, safe and reliable solution is conform to the standards and closes the drainage hole before the water under pressure enters the hydrant to open it again only when the hydrant is completely closed. The hydrant coating is carried out internally and externally by means of black epoxy powder.

Wedge

Our wedge, made of GS 400 and completely NBR rubberized, is a cylinder particularly shaped with two wings which closes thanks to the compression of the resilient coat sliding inside a rectified bronze bushing threaded into the duckfoot bend.

Its special rubberized coat with three protrusions and two opposite wings allows it to close the drainage hole

by means of the central protrusion, whereas the contact of the others with the body will avoid any vibrations. This construction guarantees:

- a perfect tightness in presence of pressure values higher than 25 bar;
- to eliminate all the problems due to the presence of debris inside the duck foot bend;
- a gradual flow rate avoiding dangerous water hammer effects either during the opening or the closure of the hydrant.

Flow rate diagram

Please refer to the fire hydrant Series Apollo DN 80

Testing

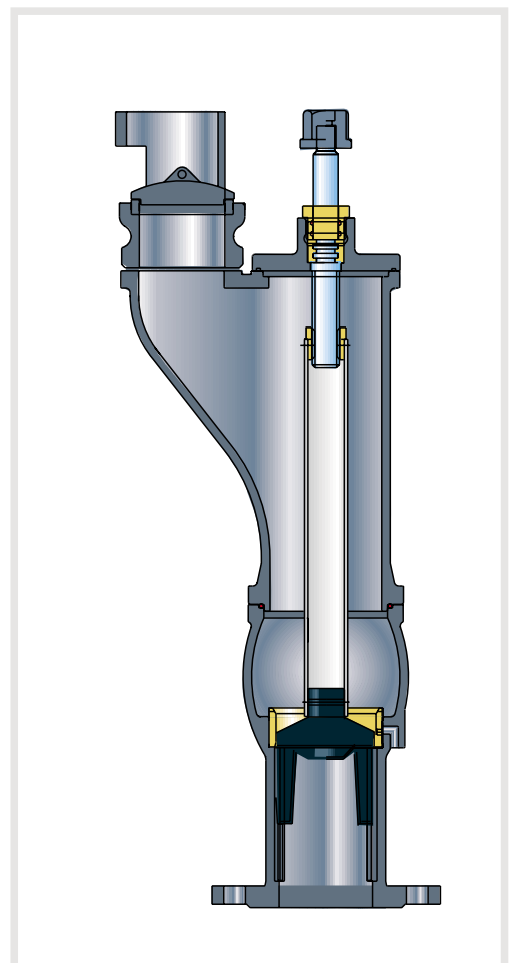
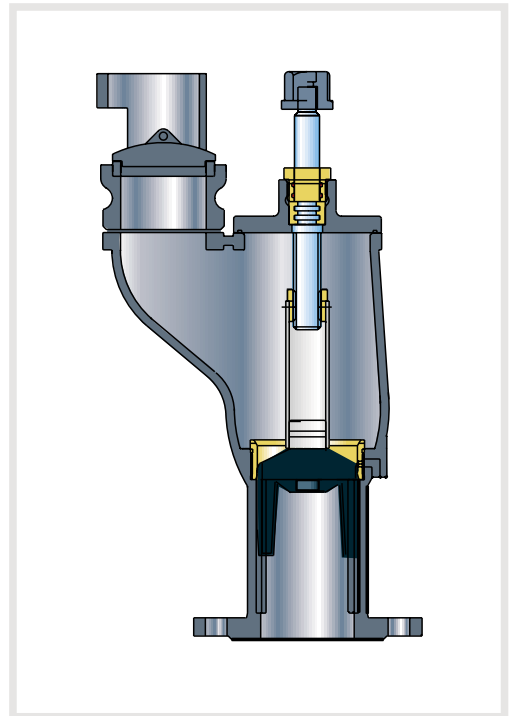
In compliance with UNI 9486 provision every hydrant undergoes a double testing:

Mechanical body's resistance = 24 bar

Shutter watertight = 21 bar

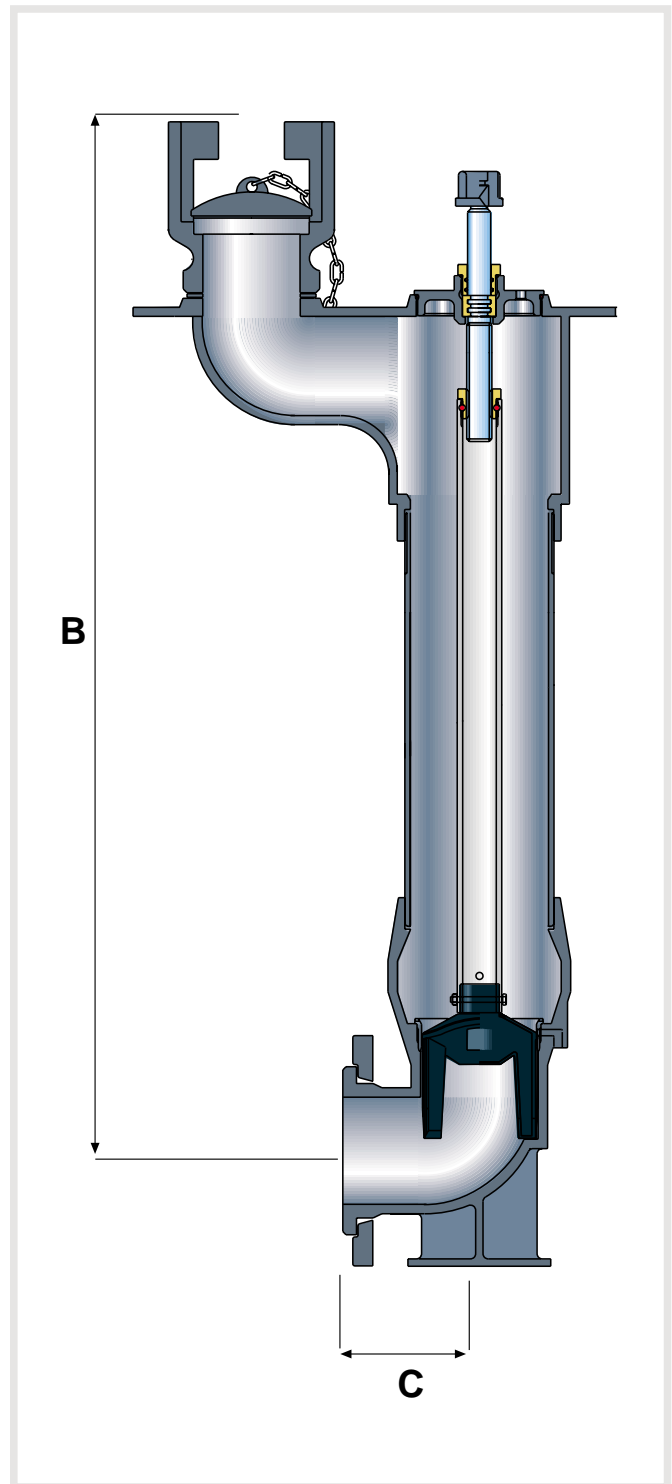
Technical features:

- **Body, cap, taps, baionet and driving nuts** in GS 400-12 internally and externally black epoxy coated;
- **Outlets, bearings and threaded screw** in brass;
- **Wedge** in GS 400-12 completely NBR rubberised;
- **Driving shaft and standpipe** in stainless steel;
- **Female screw** in bronze;
- **Gaskets** in NBR;
- **Bolts and chains** in stainless steel.



Underground fire hydrant Mod. Urano DN 80

As an alternative to the series Plutone, we can offer the Urano Mod. that comes in a standard execution with duck foot bend and mobile flanges, axial fitting on request. Its particular construction allows us to offer different heights simply replacing the central main and stand pipe.



Technical features:

- **Body, cap and nuts** in GS 400-12 internally and externally epoxy black powder coated;
- **Extension pipe, duck foot bend connection and mobile flanges** in GS 400-12 internally and externally epoxy black powder coated;
- **Outlets, bearings and threaded screw** in brass;
- **Wedge** in GS 400-12 completely NBR rubberised;
- **Driving shaft and standpipe** in stainless steel;
- **Female screw** in bronze;
- **Gaskets** in NBR;
- **Bolts and chains** in stainless steel.

Modello URANO	B	C	No. e DN delle bocche	Flangia d'attacco PN 16	Pesi
DN 80A	650		1 Ø 70 a vite		31
DN 80B	850	130	0	DN 80	37
DN 80C	1150		1 Ø 70		44
DN 80D	1400		baionetta		51

Series Plutone - Underground fire hydrant with bayonet or screw outlet

Mod. Plutone 500 ND 80 NP 16 (height = 500 mm)

Underground fire hydrants in keeping with the UNI 9486 provision, completely in GS 400 and having axial flange connection DN 80 NP16.

Bayonet or screw outlets conform to the UNI 810 provision and protected by tap with pentagonal nut.

The driving shaft and the stand pipe are in stainless steel, the female screw in bronze and the upper driving nut is pentagonal or square. The hydrant is provided with a closing system containing the automatic anti-freezing device.

That is composed of: a sealing seat in bronze, the obturator in GS 400 and completely NBR rubberized and expressly designed to prevent vibrations and water hammer effect. The hydrant coating is carried out internally and externally by means of black epoxy powder.

Mod. Plutone 700 DN 80 PN 16 (height = 700 mm)

Underground fire hydrants in keeping with the UNI 9486 provision, completely in GS 400 and having two separate bodies joined together with galvanized nuts and bolts. Axial flange connection DN 80 NP 16

Bayonet or screw outlets conform to the UNI 810 provision and protected by tap with pentagonal nut.

The driving shaft and the stand pipe are in stainless steel, the female screw in bronze and the upper driving nut is pentagonal or square. The hydrant is provided with a closing system containing the automatic anti-freezing device.

That is composed of: a sealing seat in bronze, the obturator in GS 400 and completely NBR rubberized and expressly designed to prevent vibrations and water hammer effect. The hydrant coating is carried out internally and externally by means of black epoxy powder.



Series Urano - Underground fire hydrant with bayonet or screw outlet

Mod. Urano DN 80 PN 16

Underground fire hydrants in keeping with the UNI 9486 provision, completely in GS 400 with flange connection ND 80 NP 16. Bayonet or screw outlets conform to the UNI 810 provision and protected by tap with pentagonal nut

The driving shaft and the stand pipe are in stainless steel, the female screw in bronze and the upper driving nut is pentagonal or square. The hydrant is provided with a closing system containing the automatic anti-freezing device, obtained in the duck foot bend.

That is composed of: a sealing seat in bronze, the obturator in GS 400 and completely NBR rubberized and expressly designed to prevent vibrations and water hammer effect. The hydrant coating is carried out internally and externally by means of black epoxy powder.

Accessories



REGULATING S BEND

The purpose of an S bend is to join the hydrant to the conduit so that it is in the right position at ground level, regardless of the pipe's level. They come in ductile cast iron with mobile flanges PN16 and a face of 50 cm.



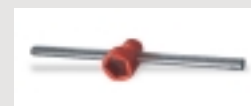
Manhole



Duck foot bend



Urano key



Apollo key



Adjusting baseboard