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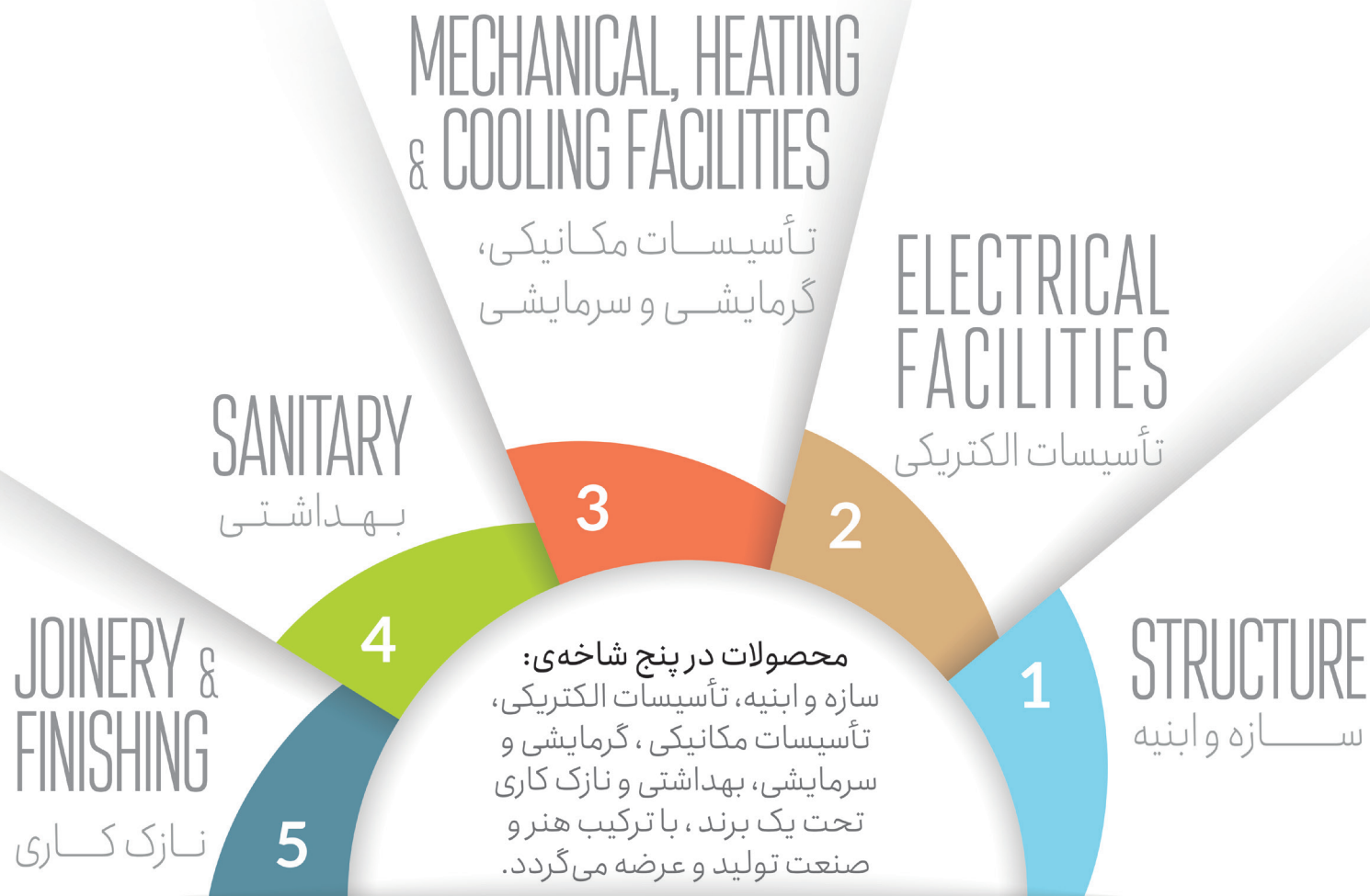
درباره کتروا

تأمین مصالح و تجهیزات پروژه‌های ساختمانی همواره یکی از مهم‌ترین دغدغه‌های سازندگان و مدیران پروژه‌هاست. اهمیت این مسئله نشأت گرفته از تأثیر مستقیم آن بر زمان بندی پروژه، هزینه تمام شده ساخت و ارزش ساختمان نهایی است.

تیم کتروا با هدف تسهیل فرایند تأمین کالاهای ساختمانی و با در نظر گرفتن مسئولیت اجتماعی خود، سامانه‌ای جامع و برخط را ایجاد نموده است. در این سامانه، سازندگان قادر خواهند بود برای پروژه‌های ساختمانی خود، زمان بندی تأمین مصالح و تجهیزات را آماده نمایند و براساس این برنامه، سفارش تأمین کالا داشته باشند. این سفارش‌ها با مقایسه کالاهای متنوع موجود در سامانه انجام می‌گیرد.

انبوه سازان، مهمترین مشتریان هدف کتروا هستند و کتروا تلاش می‌کند با برنامه ریزی منطقی برای سازندگان و با ارائه مدل خرید نقدی و اعتباری، تأمین و تحویل به موقع کالا را به مصرف کننده ارائه نماید.

تأمین کالاهای ساختمانی برای بازارهای صادراتی، یکی دیگر از اهداف اصلی کتروا است. کتروا قصد دارد بازار سنتی و غیرشفاف را به بازاری مدرن، پرسرعت و دقیق تبدیل نماید که در آن خریداران با مناسب ترین قیمت به کالاهای با کیفیت مدنظر خود دست یابند.



:Products are produced and supplied in five branches
Structure, Electrical Facilities, Mechanical, Heating & Cooling Facilities,
.Sanitary, Joinery & Finishing., combining art and industry

PUSH FIT

پوش فیت





Municipal Sewage PP pipes

لوله های PP فاضلاب شهری

This product is supplied as two socket heads and one socket head for push fit connection with international standard EN1852-1.

It has a smooth and wear-resistant inner surface (proper hydraulic flow, no deposits and self-cleaning properties).

High resistance to chemicals in wastewater.

High shock resistance.

Easy installation.

Production of O-Ring socket section of pipes with Antishrinkage device.

Greater flexibility than other pipes (the possibility of breaking and cracking is much less than polyvinyl chloride products).



EN 1852-1 , INSO 16509-1

This product is produced in two types, Neogen and Silent.

This product is produced in lengths of 15-25-50-100-200-300 cm.

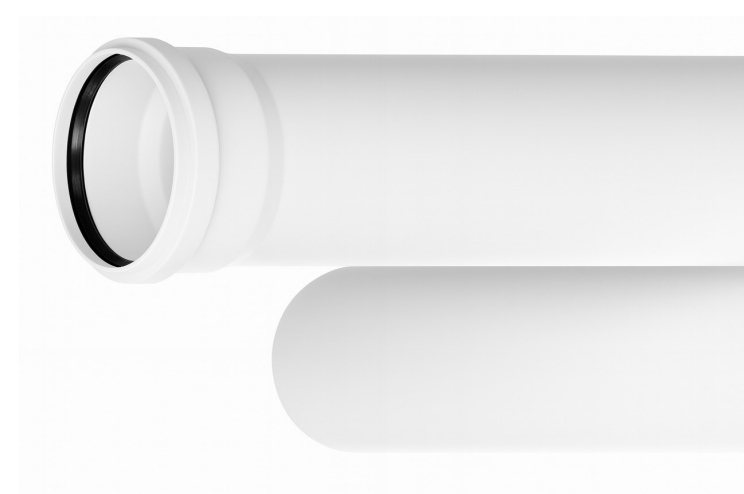
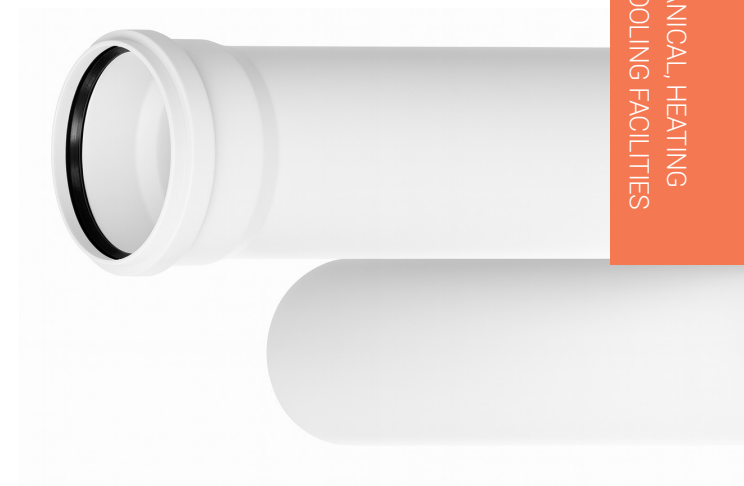
Single Socket Pipes BD			لوله های یک سر سوکت BD	
DN (mm)	SN	S	Thickness (Min. – Max.) (mm)	Pipe Length (m)
50	SN4	S16	3.8 - 4.4	4 & 6
75	SN4	S16	3.4 - 4.0	4 & 6
110	SN4	S16	4.3 – 5.0	4 & 6
125	SN4	S16	3.9 – 4.5	4 & 6
160	SN4	S16	5.5 – 6.3	4 & 6

EN 1852-1 , INSO 16509-1

This product is produced in two types, Neogen and Silent.

This product is produced in lengths of 15-25-50-100-200-300 cm.

Single Socket Pipes B			لوله های یک سر سوکت B	
DN (mm)	SN	S	Thickness (Min. – Max.) (mm)	Pipe Length (m)
50	SN2	S20	3.8 - 4.4	4 & 6
75	SN2	S20	3.4 - 4.0	4 & 6
110	SN2	S20	4.3 – 5.0	4 & 6
125	SN2	S20	3.9 – 4.5	4 & 6
160	SN2	S20	5.5 – 6.3	4 & 6



EN 1852 -1, INSO 16509 -1

This product is produced in two types, Neogen and Silent.

This product is produced in lengths of 50-100-200-300 cm.

Double Socket Pipes**لوله های دو سر سوکت BD**

DN (mm)	SN	S	Thickness (Min. – Max.) (mm)	Pipe Length (m)
50	SN4	S16	3.8 - 4.4	4 & 6
75	SN4	S16	3.4 - 4.0	4 & 6
110	SN4	S16	4.3 – 5.0	4 & 6
125	SN4	S16	3.9 – 4.5	4 & 6
160	SN4	S16	5.5 – 6.3	4 & 6

Double Socket Pipes**لوله های دو سر سوکت B**

DN (mm)	SN	S	Thickness (Min. – Max.) (mm)	Pipe Length (m)
50	SN2	S20	3.8 - 4.4	4 & 6
75	SN2	S20	3.4 - 4.0	4 & 6
110	SN2	S20	4.3 – 5.0	4 & 6
125	SN2	S20	3.9 – 4.5	4 & 6
160	SN2	S20	5.5 – 6.3	4 & 6





Silent

سایلنت





Today's modern life has caused new anomalies such as noise pollution in societies. The shrinking of the living space in big cities and the use of light and durable materials have caused the emergence and compulsion of new standards to control the sound in the living and working environment of people in societies. In multi-storied and even small buildings, the flow of water and sewage always creates noise. In the traditional piping system, it is impossible to avoid this sound. Metal pipes or dry PVC pipes do not have the possibility to absorb the vibrations that cause sound, but rather amplify it. This noise may not cause much problem in a residential house, but it can become a problem in tall and commercial buildings with a high number of people. Today, the measurement of sound emission in piping systems is done according to the EN14366 standard. According to this standard, the piping system must be implemented in a standard structure with a density of 220 kg/m² for the walls and 410 kg/m² for the floor and ceiling, and then the emission rate in different flows from 0.5 to 4 liters per second. The sound is measured by special sensors in certain places.

In Push-fit Silent pipes and fittings, it has been tried to reduce the sound caused by the movement of fluids by using the technology of producing multilayer pipes and using nano soundproofing materials in the structure of pipes and fittings. The first standard regarding sound control of various equipment in residential spaces is DIN 4109. This standard has set the permissible sound emission limit of utility systems, including the piping system, at 30 decibels. In fact, the maximum permissible sound transmission by piping systems (hot and cold water piping and sewage piping inside the building) for the sound comfort of people in closed spaces (living room and bedroom) is 30 dB and for work room and classroom has determined 35 decibels.

EN 1451-1 , INSO 13822-1

Elbow 45 Degree Silent		زانو ۴۵ درجه سایلنت
DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

EN 1451-1 , INSO 13822-1

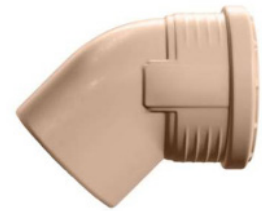
Elbow 87 Degree Silent		زانو ۸۷ درجه سایلنت
DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

EN 1451-1 , INSO 13822-1

Tee 45 Degrees Silent		سه راه ۴۵ درجه سایلنت
DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

EN 1451-1 , INSO 13822-1

Tee 87 Degrees Silent		سه راه ۸۷ درجه سایلنت
DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20





EN 1451-1 , INSO 13822-1

Tee Conversion 87 Degrees Silent

DN (mm)	SN	S
75x50	SN2	S20
110x50	SN2	S20
110x75	SN2	S20
125x110	SN2	S20
160x110	SN2	S20

سه راه تبدیل ۸۷ درجه سایلنت



EN 1451-1 , INSO 13822-1

Tee Conversion 45 Degrees Silent

DN (mm)	SN	S
75x50	SN2	S20
110x50	SN2	S20
110x75	SN2	S20
125x110	SN2	S20
160x110	SN2	S20

سه راه تبدیل ۴۵ درجه سایلنت



EN 1451-1 , INSO 13822-1

Tee Visit Silent

سه راه بازدید سایلنت

DN (mm)	SN	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

EN 1451-1 , INSO 13822-1

Cap Silent

درپوش سایلنت

DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20



EN 1451-1 , INSO 13822-1

Interface Fitting Socket Silent

سوکت رابط سایلنت

DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20



EN 1451-1 , INSO 13822-1

Conversion Silent

تبدیل سایلنت

DN (mm)	SN	S
75x50	SN2	S20
110x50	SN2	S20
110x75	SN2	S20
125x75	SN2	S20
110x125	SN2	S20
160x110	SN2	S20
160x125	SN2	S20



Neogen

نئوژن





Features and Benefits:

- High shock resistance
- Easy installation
- Abrasion resistant
- Resistant to chemicals found in sewage

EN 1451-1 , INSO 13822-1**Elbow 45 Degree Neogen****زانو ۴۵ درجه نئوژن**

DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

Elbow 87 Degree Neogen**زانو ۸۷ درجه نئوژن**

DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

Tee Conversion 45 Degrees Neogen

DN (mm)	SN	S
75x50	SN2	S20
110x50	SN2	S20
110x75	SN2	S20
110x125	SN2	S20
110x160	SN2	S20

سه راه تبدیل ۴۵ درجه نئوژن**EN 1451-1 , INSO 13822-1****Tee 45 Degrees Neogen****سه راه ۴۵ درجه نئوژن**

DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

Tee 87 Degrees Neogen**سه راه ۸۷ درجه نئوژن**

DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

Tee Conversion 87 Degrees Neogen

DN (mm)	SN	S
75x50	SN2	S20
110x50	SN2	S20
110x75	SN2	S20
110x125	SN2	S20
110x160	SN2	S20

سه راه تبدیل ۸۷ درجه نئوژن

EN 1451-1 , INSO 13822-1

Cap Neogen

درپوش نئوژن

DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

EN 1451-1 , INSO 13822-1

Tee Visit Neogen

سه راه بازدید نئوژن

DN (mm)	SN	S
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

EN 1451-1 , INSO 13822-1

Conversion Neogen

تبدیل نئوژن

DN (mm)	SN	S
75x50	SN2	S20
110x50	SN2	S20
110x75	SN2	S20
125x75	SN2	S20
110x125	SN2	S20
160x110	SN2	S20
160x125	SN2	S20

EN 1451-1 , INSO 13822-1

Interface Fitting Socket Neogen

DN (mm)	SN	S
50	SN2	S20
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

سوکت رابط نئوژن

EN 1451-1 , INSO 13822-1

Roof Cane Neogen

عمدایی بام نئوژن

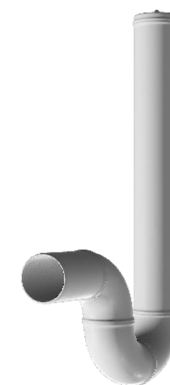
DN (mm)	SN	S
75	SN2	S20
110	SN2	S20
125	SN2	S20
160	SN2	S20

EN 1451-1 , INSO 13822-1

Siphon Neogen

سیفون نئوژن

DN (mm)	SN	SN	S
50-50	20 cm	SN2	S20
	60 cm	SN2	
75-75	20 cm	SN2	S20
	60 cm	SN2	
125-110	20 cm	SN2	S20
	60 cm	SN2	
110-110	60 cm	SN2	S20



Ketrowa Technical Specifications and Features of**PUSH-FIT Pipes and Fittings****Technical Specifications of Neogen PUSH-FIT Pipes and Fittings**

Color		Gray RAL 7037
Density	g/cm ³	0.91
Tensile Strength at 20°C	N/mm ²	30
Yield Stress	N/mm ²	21
Flexibility Coefficient	N/mm ²	1200
Percentage of Elongation	%	800
Bending Stress	N/mm ²	20
Modulus of Elasticity	N/mm ²	350
Impact Strength	kJ/m ²	25
Thermal Conductivity Coefficient	W/m ² k	0.23
Coefficient of Longitudinal Expansion	m/mk	0.00015
Roughness Coefficient	Mm/m	0.007
pH Range	-	2-12

Technical Specifications of Silent PUSH-FIT Pipes and Fittings

Color		White RAL 9018
Density of the Middle Layer	g/cm ³	1.507
Tensile Strength at 20°C	N/mm ²	25
Yield Stress	N/mm ²	20
Flexibility Coefficient	N/mm ²	800
Percentage of Elongation	%	150
Bending Stress	N/mm ²	20
Modulus of Elasticity	N/mm ²	2600
Impact Strength	kJ/m ²	30
Thermal Conductivity Coefficient	W/m ² k	0.55
Coefficient of Longitudinal Expansion	m/mk	0.09
Roughness Coefficient	Mm/m	0.007
pH Range	-	2-12

KraussMaffei**GERMAN**
Technology**ENGEL**

CERTIFICATE

THE MANAGEMENT SYSTEM OF
TOSEE VA TAMIN BANA GOSTAR ASIA SAZEH CO. (KETROWA)

NO.477, BETWEEN 1ST AND 2ND VAHD ST., SHAHID BEHESHTI BLVD., BAGHESHTAN HWY., SHAHRAR, TEHRAN PROVINCE, IRAN

has been assessed and certified as meeting the requirements of
ISO 14001:2015

Environmental management system

FOR THE FOLLOWING ACTIVITIES

Comprehensive Supplier of Building Materials

CERTIFICATE REGISTRATION NO.: QM5933306
ORIGINAL CERTIFICATION DATE: MAY 07, 2025
CURRENT CERTIFICATION DATE: MAY 07, 2025
CERTIFICATE EXPIRY DATE: MAY 07, 2028
THIS CERTIFICATE REMAINS VALID SUBJECT TO SATISFACTORY SURVEILLANCE AUDITS.


Authorized Signatory
EIQM Ltd. Certification Services
info@eiqmcert.com



EIQM Ltd. Certification Services is a certification body for assessment of objective evidence and issuance of certificate. this certificate is issued on the basis of the independent authority of the EIQM certification services. we partner with you to offer independent services that will help you, streamline your processes and operate in a more sustainable manner.



The validity of this certificate can be verified at www.eiqmcert.com

CERTIFICATE

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NO.477, BETWEEN 1ST AND 2ND VAHD ST., SHAHID BEHESHTI BLVD., BAGHESHTAN HWY., SHAHRAR, TEHRAN PROVINCE, IRAN

has been assessed and certified as meeting the requirements of
ISO 45001:2018

Occupational health and safety management system

FOR THE FOLLOWING ACTIVITIES

Comprehensive Supplier of Building Materials

CERTIFICATE REGISTRATION NO.: QM5933307
ORIGINAL CERTIFICATION DATE: MAY 07, 2025
CURRENT CERTIFICATION DATE: MAY 07, 2025
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has been assessed and certified as meeting the requirements of
ISO 9001:2015

Quality management system

FOR THE FOLLOWING ACTIVITIES

Comprehensive Supplier of Building Materials

CERTIFICATE REGISTRATION NO.: QM5933305
ORIGINAL CERTIFICATION DATE: MAY 07, 2025
CURRENT CERTIFICATION DATE: MAY 07, 2025
CERTIFICATE EXPIRY DATE: MAY 07, 2028
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IMS

ISO 9001:2015 , ISO 14001:2015 , ISO 45001:2018

FOR THE FOLLOWING ACTIVITIES

Comprehensive Supplier of Building Materials

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