

# Darco



**What factors should be taken into account when choosing**  
a chimney connection systems made of mild steel #2mm

## 1. PORTFOLIO

A comprehensive offer should enable even most complicated connections to be made (in addition to pipes and elbows, it should include many more elements - e.g. ceramic fireplace inserts, angular inserts, square/round adapters). In case of connections to free standing stoves, it is worth checking whether the offer includes aesthetic, bent elbows. It should also be possible to order non-standard elements.



## 2. PAINT QUALITY

The right paint does not smoke during first burning, does not emit unpleasant scents and is hardened - making the element resistant to scratching already in the warehouse. Manufacturer should always specify the paint used to paint the product. It is worth checking whether the portfolio includes elements painted in colours other than black.



SENOTHERM UHT 600  
paint used by the best fireplace  
manufacturers.

## 3. MAKING QUALITY

### Tightness

Tightness is a key factor, decisive for product safety. Attention should be paid to how individual products are made in terms of tightness (whether seals are provided at inspection openings - fastening of the inspection element to the elbow without a thermally resistant seal does not ensure elbow tightness).



### Adjustable elbows

Adjustable elbow is a vital element of the installation, it must be tight in every position (segments should match along the entire circumference after the clamp is removed, they may not be elliptical as the connection is not tight and angle adjustment difficult).



### Manufacturing precision of round elements

Products made of thick metal sheet, such as 2.0 mm, may not fit into each other if they are not round, manual correction of any eccentricity is impossible. Thus, attention should be paid to make sure the products are perfectly round, otherwise it is quite probable that assembly will be difficult and there is a risk of leakages (connection between two elliptical elements).



### Bent and segmented polished elbows

Special attention should be paid to connection aesthetics. If free-standing stoves are connected, this element becomes a key in the arrangement of entire room.

Only very few manufacturers offer such products. It is important that the elbows are available in many diameters and options.



## 4. TECHNICAL DETAILS

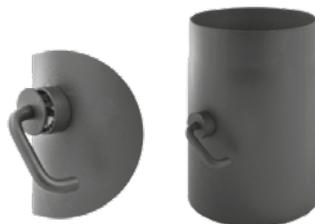
### Adjustable elbow clamps

Easy and precise connection assembly largely depends on elbow quality. Even the apparently irrelevant matter, like screw quality may have a very significant impact on the installation (soft screws bend when the band is tightened and unable proper locking), it is also important to make sure that the clamp can be tightened both with a wrench and a screwdriver.



### Damper with blockade

When burning in the stove or in the fireplace some dampers and exposed to the risk of self rotation (caused by softening of the spring locking the damper at high temperatures). It is worth checking whether the offer of the manufacturer includes dampers equipped with locks fixing the baffling.



### Inserts to ceramic chimneys

Making of the inserts is extremely important, they should be made with ceramic rope along the entire width, otherwise the tee may be damaged if assembly is not precise enough.



**Extremely important!**  
**LASER WELDED** pipe elements assure the highest connection quality, unique aesthetics and tightness.



## 5. PACKING

It is worth checking whether the element is correctly protected against paint damage (the best solution is to deliver every element packed in a separate box). The paint coating is vulnerable to scratching, for example during transport. Scratched elements, especially if assembled with free-standing stoves, where connection elements are not covered by housing, make the installation look bad.



## 6. LABELLING AND LEGAL CONFORMITY

Chimney products are subject to strict standards related to safety, manufacturer must perform a series of tests in order to mark them with CE. This mark indicates that the manufacturer is responsible for correct and declared operation of the product.

Always check product labelling, to make sure the product is provided with all legally required certificates and approvals (each pipe should include, at least: CE mark, manufacturer declaration number, harmonised standard number, production date, batch number).



DARCO Sp. z o.o.  
ul. Metalowców 43  
39-200 Dębica, Poland

**darco.pl**

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