

We make Europe's ideas



visible

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Corten steel signs

Why corten steel?

Because...

- It's rusty
- It's designed by nature
- It has original texture
- It's unique
- always matte
- each time different
- it's environmentally friendly
- it's modern
- it's old school
- it's the last trend in architecture
- it's something new
- it's something we already know
- it's something different

INTRODUCTION

Corten steel is a steel material with a rusty appearance which obtains highly aesthetic qualities and is being increasingly used as a finish design material for **buildings (architecture and construction), public spaces (street furniture), as a part of upmarket art works, facade or ground signs, chimneys and fire bowls.**

Characteristics of corten steel has been respected by all architects, both for its strength and for its surface look. The architectural details of corten steel present a diversity of situations and connections, not only the obvious constructive factor but it also gives an aesthetic value to any architectural project. Looking into corten steel trend popularity and need in the market RD signs has developed corten steel signs production technology to our customers.

After several years of research at the beginning of 2022 RD Signs started practical testing of corten steel manufacturing processes trying to find a way how to make signs in „rusty“ look and feel. Corten steel signs production technology is developed so that channel letters, totems, and lightboxes after the production process is done would have nature formed unique matte rusty look, color and corten structure. Due to this technology our customers wouldn't need to wait several years until corten steel will obtain required surface look.

Corten steel signs can be offered in 2 options:

- STANDARD CORTEN STEEL SIGNS
- ACTIVATED CORTEN STEEL SIGNS

Standard corten steel by itself has steel color until it is stored indoors. Signs which are produced from corten steel after welding, cutting, and bending must be treated with special liquids and stand for some time outside to get some natural forces like rain, snow etc. until the corrosion process is started.

Customer can choose if he wants to receive natural steel look signs and wait until the corten steel will get rusty, or if he wants to receive signs already with a rusty surface which can be stabilized and wouldn't leak off. Corten steel with original steel color (no additional treatments) which are installed outside after rain or snow melting will be unlocked and corrosion processes will change the steel appearance in several months. Standard corten steel will be impacted by nature for several years until the corrosion process will stop changing signs' appearance and texture.

The same story is with the **Activated corten steel technology**. Signs produced according to RD corten technology after production will have a rusty look. **Activated corten steel** signs RD signs will produce standard corten steel signs, just the corrosion process will be reinforced at our factory, and it will continue rusting after the sign's installation outside.

The standard corten steel and activated corten steel signs during the corrosion processes will have “rust dust” which will be washed by the rain, so it will run from the signs to the ground or wall by leaving brown stains on the walls or ground. For channel letters, lightboxes or totems which will be installed on the ground rusty stains, shouldn't be a problem. The brown dust melted by the rain or snow is absorbed by grass, tiles, or ground until brown stains become not visible. So RD signs doesn't recommend to use corten steel signs on light façade walls. Natural corrosion process leaves a rusty stain and can damage the wall color.

From now on you can order corten steel illuminated or not illuminated channel letters, lightboxes, flag signs and totems with R decoration produced by RD signs in technology which you like the most!

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UNIQUE AND MODERN DESIGN
created by the nature

RD signs offer 2 corten steel
manufacturing technologies:



Note: The corten steel appearance is formed by natural forces such as wind, snow, rain and sun, so it is not possible to impact the rusty signs' look, color, texture. Each sign will have a different appearance and color which is not possible to repeat. So these signs are unique and it is not possible to repeat the look of the signs again.

STANDARD CORTEN STEEL:

Standard corten steel signs are signs which are welded, bended and fully produced signs with original steel color until it is not installed outside. After several months of standing outside the corrosion processes are activated by natural forces and slowly corten steel will become rusty. The signs have to stand outdoors for several years until the corrosion process is ended and the corten steel look sign will have its final rust appearance. This technology is recommended for large totems and other signs which stand on the ground.

ACTIVATED CORTEN STEEL SIGNS:

Activated corten steel signs are signs which after production process has been activated by special technology at RD signs factory. This type of signs will have a rusty look at the end of production, but the rust will not be fixed by special treatments and processes. It means that the signs after installation on the facades or outside the buildings will be changing its appearance, color, texture, and structure because of natural forces. Wind, rain, cold and hot weather will impact the corten steel signs for several years after installation, until the front surface and look will be totally formed by nature. Recommended for channel letters, totems which are installed on the ground or grass, concrete backgrounds, fences, and other surfaces close to the ground.

CORTEN STEEL CHANNEL LETTERS



CORTEN STEEL CHANNEL LETTERS

Profile 01

Not illuminated corten steel channel letter

Corten steel letters with or without the back. Main corpus of the letter is made from welded corten steel and PVC bottom or L profiles for installation. The PVC bottom provides stability to the letters stability and simplifies installation. Corten steel letters are available already with a rusty look.

Profile 3

Indirectly illuminated corten steel channel letter

Indirectly illuminated „rusty“ channel letters which have corpus welded from corten steel and white acrylic glass back. Profile 3 letters are available in rusty look corten steel corpus. The bottom is supplied with 3 or 8 mm white acrylic (depending on the letter font) to have light from the back. This results gives an unique look to the sign.

Profile R exclusive

Indirectly illuminated corten steel channel letter
New NEON look letter with direct illumination

To have good illumination and light reflection indirectly illuminated channel letters have to be mounted on a background which is light-coloured.
Profile R exclusive is an option to have stylish rusty letter with „neon look“ contour. The letters are made from welded corten steel corpus with extruded 10-30mm white acrylic on the letters front. Profile R exclusive is available with pushed through white or transparent acrylic. Extruding acrylic front might be decorated with vinyl (available only for „square“ neon look).
„Neon look“ rusty letters gives an opportunity to have modern and in the same time „old school“ signs powered with an energy saving LEDs illumination and using environmentally friendly corten steels for corpus.

MAIN SIGNS CRITERIA:

Note: customer can choose which technology sign he want's to order.

Standardly used vinyls:

- Oracal 8500, 551 series
- 3M 3630 and 3635 series

Letters corpus color are always:

- Rusty
- Created by nature
- Original texture
- Matte texture
- Each time different and unique

Depths:

- 30 mm
- 40 mm

LEDs - Interone (S. Korea):

- SAMSUNG LED Chip
- Built in Lens type
- Long Life time (More than 50,000hrs at L70)
- Easy installation and maintenance
- 100% waterproof (IP68)

POSSIBLE LEDs COLOURS:

- 3000 K
- 4000 K
- 5000 K
- 6500 K
- 9000 K
- 11.000 K
- LED
- GREEN
- BLUE
- RGB

TRANSFORMERS – MEANWELL:

- Water proof class IP67
- Metal case, design for indoor or outdoor installations
- Suitable for LED street lighting, outdoor LED lighting and general outdoor applications with high IP requirement
- Dimming possibility

LIGHTBOXES & FLAG SIGNS

Modern and at the same time little bit „old school“ lightboxes and flag signs are fully produced from corten steel, powered by energy saving LED modules and equipped with pushed through acrylic decoration.



LIGHTBOXES & FLAG SIGNS

LIGHTBOXES & FLAG SIGNS AVAILABLE IN PROFILES:

Profile Letters and logo's are equiped with:

- R-2** 3mm acrylic inside the corten steel corpus
- R00** 4 mm pushed through acrylic, acrylic decoration remains in the same level as corten steel corpus
- R3** 6 mm pushed through acrylic, 3 mm is visible from the side
- R4** 8 mm pushed through acrylic, 4mm is visible from the side
- R6** 10 mm pushed through acrylic, 6mm is visible from the side
- R11** 15 mm pushed through acrylic, 10-11 mm is visible from the side
- R16** 20 mm pushed through acrylic, 15-16 mm is visible from the side
- R26** 30 mm pushed through acrylic, 25-26 mm is visible from the side

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Depths:

- 60 mm
- 80 mm
- 100 mm
- 120 mm

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LIGHTBOXES & FLAG SIGNS

Rusty totems are produced from corten steel corpus, equipped with internal aluminum or steel construction (depending on the size and shape) and decorated with plain or pushed through acrylic.



LIGHTBOXES & FLAG SIGNS

Not illuminated pylons :

Profile Pylon type:

Corten steel pylon Corten steel corpus equiped with aluminum or steel internal construction and vinyl decoration on fronts.

Illuminated pylons:

Pylon profile Letters and logo's are decorated with:

- R-2** 3mm acrylic inside the corten steel corpus
- R00** 4 mm pushed through acrylic, acrylic decoration remains in the same level as corten steel corpus
- R3** 6 mm pushed through acrylic, 3 mm is visible from the side
- R4** 8 mm pushed through acrylic: 4mm is visible from the side
- R6** 10 mm pushed through acrylic, visible from the side 6mm acrylic
- R11** 15 mm pushed through acrylic, visible from the side 10-11 mm acrylic
- R16** 20 mm pushed through acrylic, visible from the side 15-16 mm acrylic
- R26** 30 mm pushed through acrylic, visible from the side 25-26 mm acrylic

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production of visual advertisements
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