



**CADprofi 2019.17/18**

## ✓ CADprofi – object placement

The *Arrange* command allows user to quickly arrange objects in selected rooms. It is possible to arrange objects in selected rooms, in the indicated boundary (polyline) or in the newly drawn boundary. User can arrange objects by regular placement by offset or quantity.

The *Arrange* command significantly speeds up the insertion of fire detectors, sprinklers and other objects.



[Watch video](#)

Object placement
✕

**Object placement**

Selected rooms

Select closed polyline

Draw polyline

Define polyline (select inner point)

Arrange in rectangular array

Along section (select two points)

Along line or polyline

Check rooms with placement

Invert selection

| Num...                              | Room       | Surface [m2] |
|-------------------------------------|------------|--------------|
| <input checked="" type="checkbox"/> | 201 Office | 17.13        |
| <input checked="" type="checkbox"/> | 202 Office | 14.64        |
| <input checked="" type="checkbox"/> | 203 Office | 14.63        |
| <input checked="" type="checkbox"/> | 204 Office | 14.23        |
| <input checked="" type="checkbox"/> | 205 Office | 14.43        |
| <input checked="" type="checkbox"/> | 206 Office | 14.58        |
| <input checked="" type="checkbox"/> | 207 Office | 21.96        |
| <input checked="" type="checkbox"/> | 208 Office | 21.68        |
| <input checked="" type="checkbox"/> | 209 Office | 29.88        |
| <input checked="" type="checkbox"/> | 210 Office | 21.99        |
| <input checked="" type="checkbox"/> | 211 Office | 22.22        |
| <input checked="" type="checkbox"/> | 212 Office | 22.02        |
| <input checked="" type="checkbox"/> | 213 Office | 22.21        |
| <input checked="" type="checkbox"/> | 214 Office | 29.33        |
| <input checked="" type="checkbox"/> | 215 Hall   | 14.18        |
| <input checked="" type="checkbox"/> | 216 Toilet | 7.84         |
| <input checked="" type="checkbox"/> | 217 Toilet | 8.26         |
| <input checked="" type="checkbox"/> | 218 Office | 20.64        |

**Type of placement**

Regular placement by offset (X, Y max lub D max)

Regular placement by quantity nX, nY

Placement in accordance to given length (X, Y)

Arrange in accordance to Placement angle

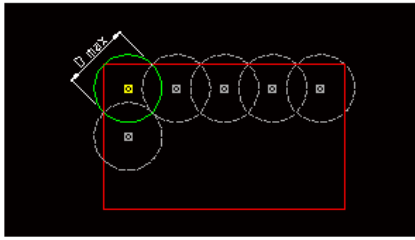
Longest edge 0

Object insertion point

In the middle of the zone

Placement by Dmax

Dmax  ✕ nX




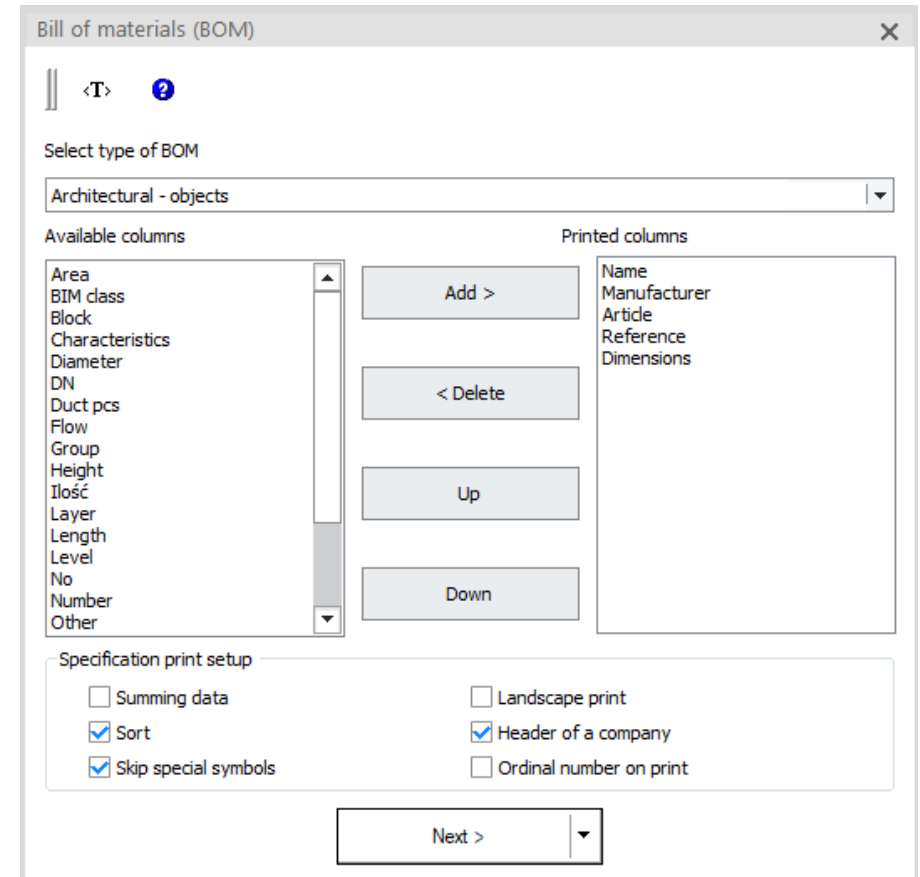
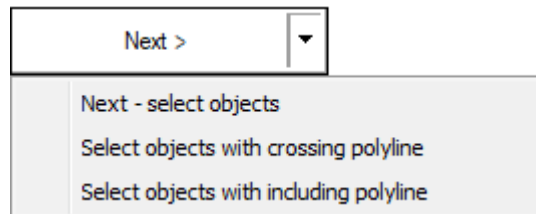
Include points outside polyline

Current unit: millimetres

OK

## ✓ CADprofi – specifications (command extension)

The *Bill of Materials*  command has been extended with the possibility to include select objects with a crossing polyline or an enclosing polyline. Thanks to this it is possible to obtain specifications from specific areas in the drawing.

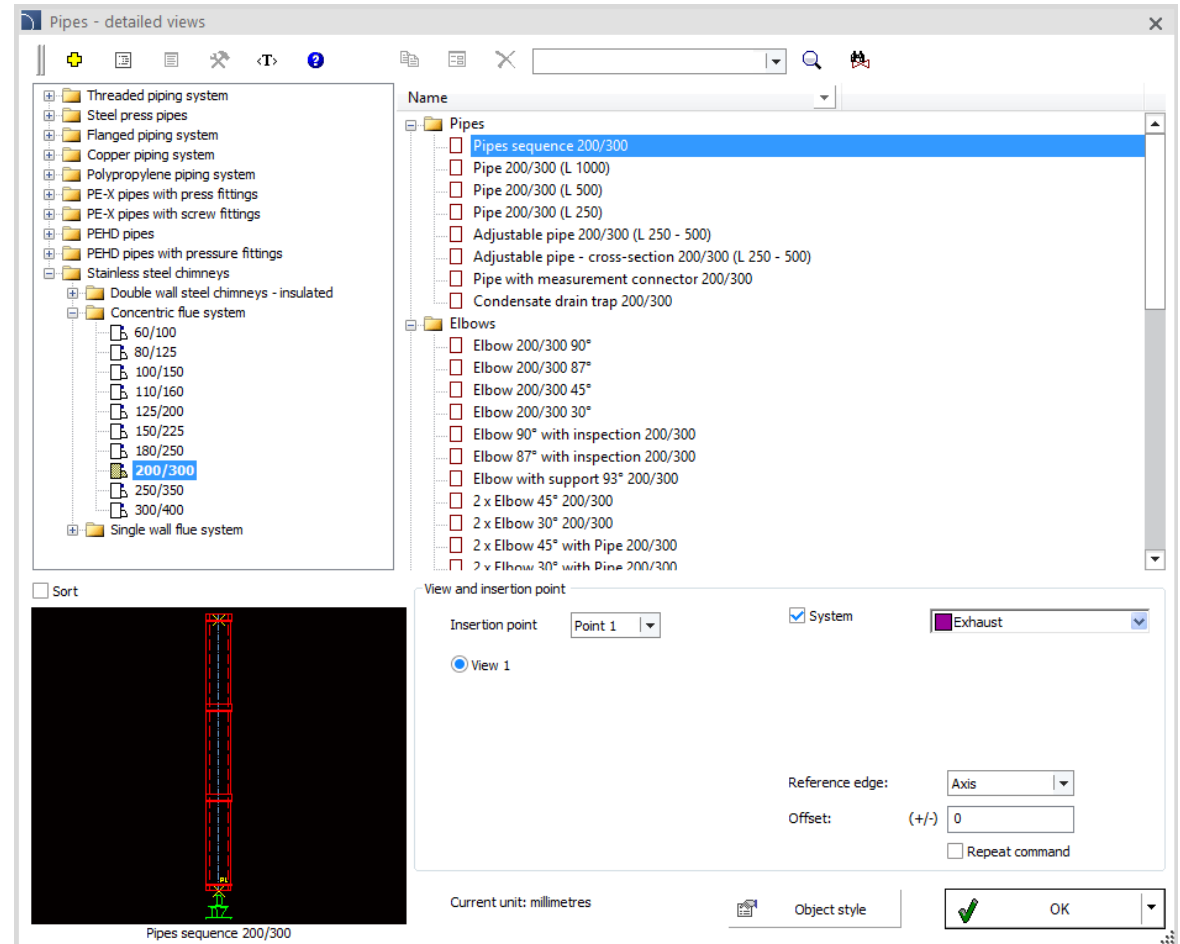




# CADprofi

## ✓ CADprofi HVAC & Piping – concentric flue system (additional sizes)

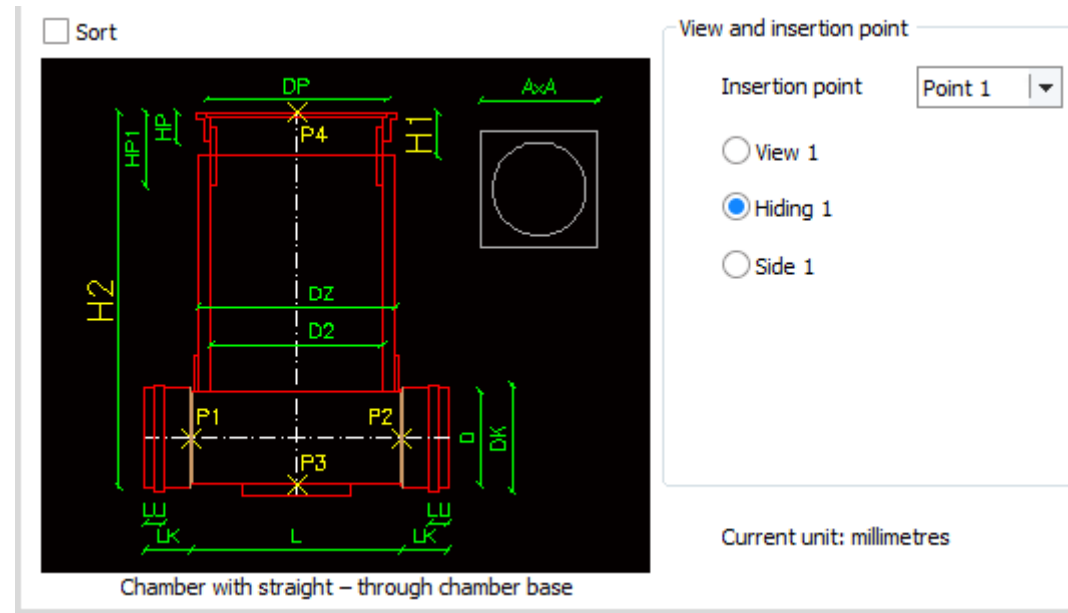
On user request, the concentric air / flue gas system was expanded with additional sizes.





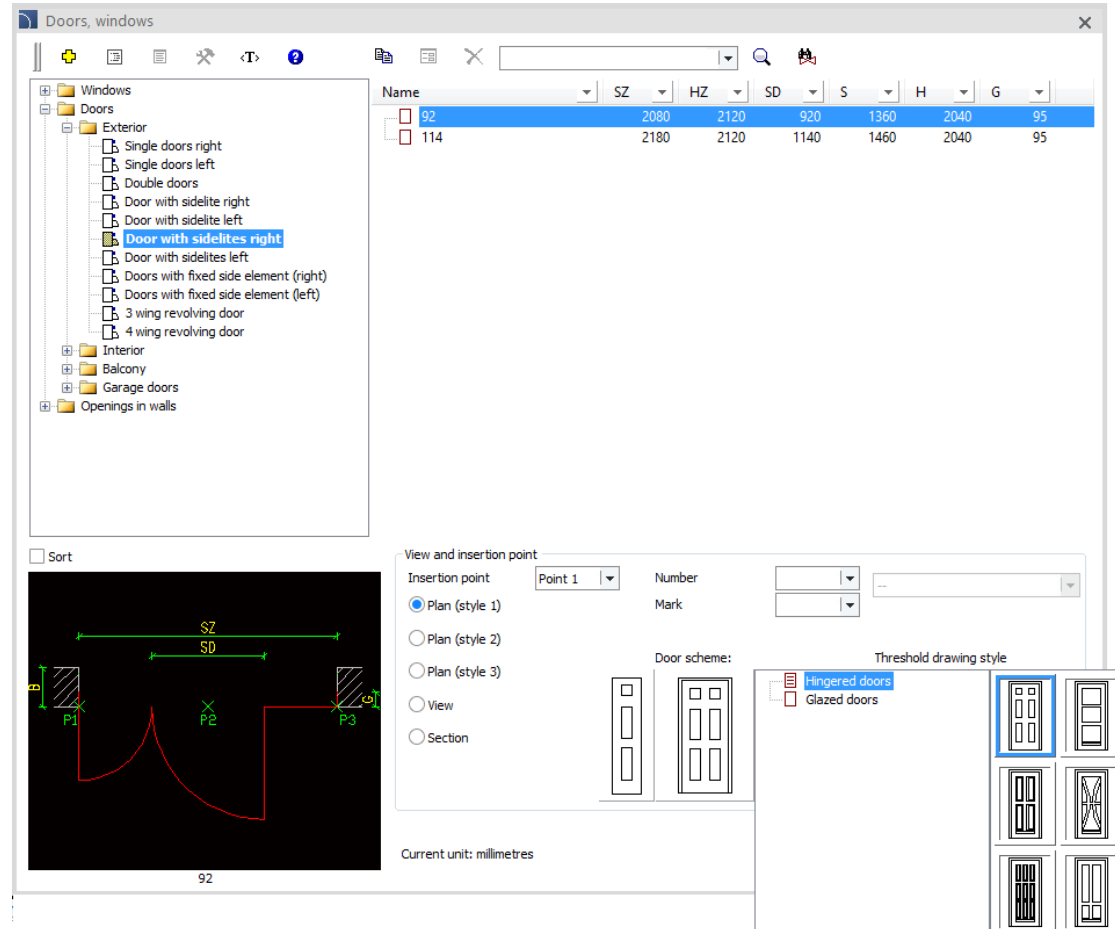
## ✓ CADprofi HVAC & Piping – additional insertion points in the sewer wells

Additional insertion points have been introduced in the sewer wells in order to facilitate accurate positioning of the wells, e.g. relative to the terrain in the network profiles.



## ✓ CADprofi Architectural – new door views

The woodwork library available in the CADprofi program has been expanded with new door views.



The screenshot displays the 'Doors, windows' window in CADprofi. On the left, a tree view shows the hierarchy of door types, with 'Door with sidelites right' selected. The main area features a table with the following data:

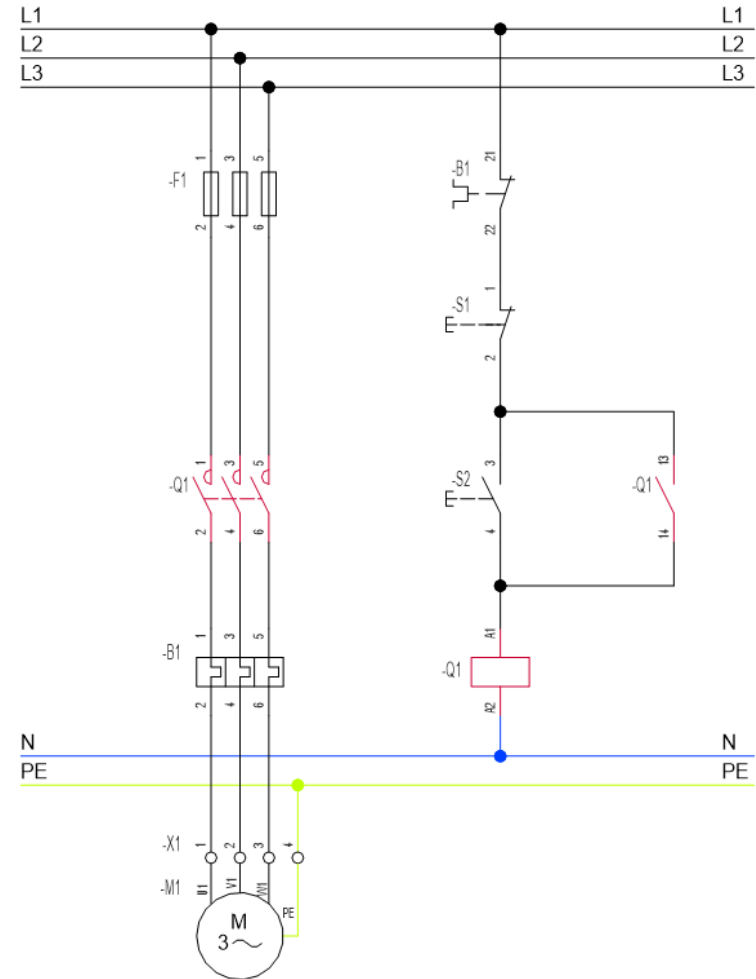
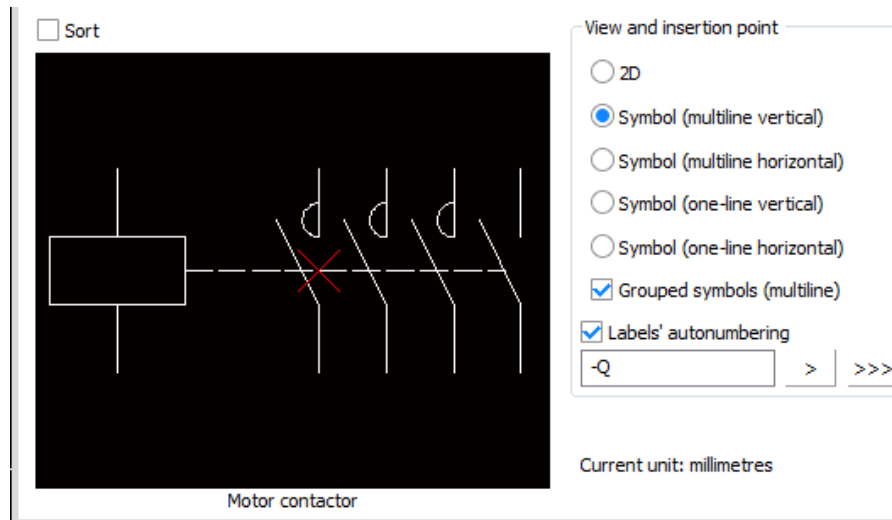
| Name | SZ   | HZ   | SD   | S    | H    | G  |
|------|------|------|------|------|------|----|
| 92   | 2080 | 2120 | 920  | 1360 | 2040 | 95 |
| 114  | 2180 | 2120 | 1140 | 1460 | 2040 | 95 |

Below the table, a technical drawing shows a door with dimensions SZ and SD, and insertion points P1, P2, and P3. The 'View and insertion point' panel includes options for 'Plan (style 1)', 'Plan (style 2)', 'Plan (style 3)', 'View', and 'Section'. The 'Door scheme' section shows two schemes, and the 'Threshold drawing style' section shows 'Hinged doors' and 'Glazed doors'. The current unit is set to millimetres.

## ✓ CADprofi Electrical - extension of functionality and content of IEC symbols libraries

The IEC and NFPA symbols library has been expanded with additional electrical symbols.

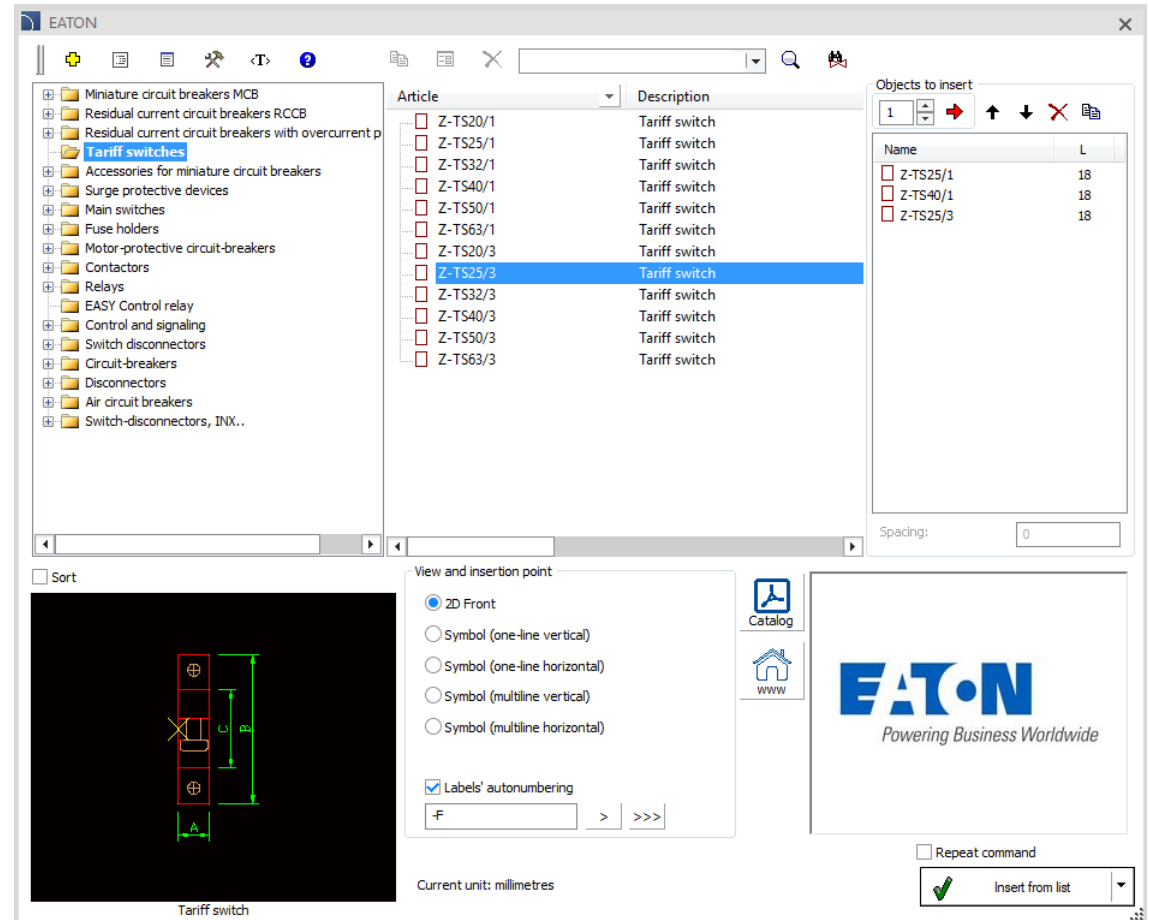
The library of modular apparatus has also been extended with the possibility of inserting symbols with grouped or ungrouped main contacts. This allows the use of existing symbols in various types of schemes (e.g. in energy distribution schemes, automation, etc.)



## ✓ New EATON library

The new library available in the CADprofi program contains EATON products, including:

- Miniature, residual current, motor-protective circuit breakers.
- Accessories for circuit breakers.
- Surge protective devices.
- Main switches
- Fuse holders
- Motor-protective circuit-breakers
- Contactors
- Relays
- EASY Control relay
- Control and signaling
- Switch disconnectors
- Circuit-breakers
- Disconnectors
- Air circuit breakers
- Switch-disconnectors, INX...

| Name     | L  |
|----------|----|
| Z-TS25/1 | 18 |
| Z-TS40/1 | 18 |
| Z-TS25/3 | 18 |

View and insertion point

2D Front

Symbol (one-line vertical)

Symbol (one-line horizontal)

Symbol (multiline vertical)

Symbol (multiline horizontal)

Labels' autonumbering

-F > >>>

Current unit: millimetres

Repeat command

Insert from list





# CADprofi

## ✓ New Budniok Technika library

The new library available in the CADprofi program contains Budniok Technika products in the field of lightning protection.

The library also has additional design tools - a calculator for calculating the resistivity of simple earthing systems and a calculator for elements of vertical earthing sets.

This library is currently available only in Polish language.



| Opis   | Wysok... | Rodzaj                         | Nr katalogowy |
|--|----------|--------------------------------|---------------|
| <input type="checkbox"/> Uziom gwintowany, złączk... | 1,22 m   | uziom 5/8 cala, powłoka 254 µm | E635840       |
| <input type="checkbox"/> Uziom gwintowany, złączk... | 1,52 m   | uziom 5/8 cala, powłoka 254 µm | E635850       |
| <input type="checkbox"/> Uziom gwintowany, złączk... | 3,05 m   | uziom 5/8 cala, powłoka 254 µm | E635800       |
| <input type="checkbox"/> Uziom gwintowany, złączk... | 1,52 m   | uziom 3/4 cala, powłoka 254 µm | E633450       |
| <input type="checkbox"/> Uziom gwintowany, złączk... | 3,05 m   | uziom 3/4 cala, powłoka 254 µm | E633400       |

Widok i punkt wstawienia

2D Widok  
 Symbol

Wysokość tekstu: 180

Wstaw wielokrotnie

Aktualna jednostka: milimetry

Uziom gwintowany, złączkowy, warstwa 254 µm



# CADprofi

✓ Update of manufacturers' libraries:





# CADprofi

## ✓ Adjustment to many base CAD programs

CADprofi 2019.17 has been adjusted to work with latest CAD programs, including: CADopia 19.

CADprofi 2019 currently works with many base CAD programs including: AutoCAD (since the 2000 version), BricsCAD, GstarCAD, IntelliCAD, progeCAD, ZWCAD, ARES Commander Edition and others.

The logo for AutoCAD, featuring the word 'AutoCAD' in a bold, red, sans-serif font with a registered trademark symbol.

The logo for ZWCAD, featuring the word 'ZWCAD' in a bold, blue, sans-serif font with a green leaf-like graphic above the 'W'.

The logo for GstarCAD, featuring the word 'GstarCAD' in a bold, blue and yellow, sans-serif font, with the tagline 'An Alternative CAD System' below it.

The logo for BricsCAD, featuring a stylized blue 'B' shape above the word 'BRICSCAD' in a bold, black, sans-serif font.

The logo for progeSOFT, featuring a blue globe with a yellow 'I' shape above the word 'progeSOFT' in a blue, sans-serif font.

The logo for IntelliCAD, featuring a purple diamond shape with a yellow 'I' shape inside, above the word 'IntelliCAD' in a bold, purple, sans-serif font.

The logo for Gräbert ARES Commander, featuring a red, stylized flame-like graphic above the word 'Gräbert' in a small, black, sans-serif font, and 'ARES® Commander' in a large, bold, black, sans-serif font.



**CADprofi**

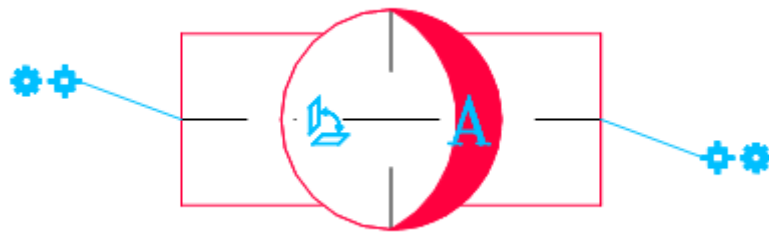


**CADprofi 2019.14/15**

## ✓ CADprofi – side views and additional Z+/Z- views for 2D fittings

2D fittings side views for tees and offsets as well as additional views of Z+/Z- for tees and pipe crosses with reducers have been added to the library.

The new fittings are fully editable using the CADprofi program commands.



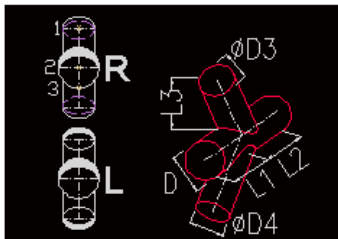
Pipes - general views
✕

- User objects defining
- Special fittings
  - Tee-piece (asymmetric)
  - Tee-piece (asymmetric) Z+/Z-
  - Tee-piece (asymmetric) (side)
  - Tee-piece with reducer
  - Tee-piece with reducer Z+/Z-
  - Tee-piece with reducer (side)
  - Reducing tee-piece
  - Reducing tee-piece Z+/Z-
  - Reducing tee-piece (side)
  - Cross (asymmetric)
  - Cross (asymmetric) Z+/Z-
  - Cross (asymmetric) (side)**
  - Cross with reducer
  - Cross with reducer Z+/Z-
  - Cross with reducer (side)
  - Reducing cross
  - Reducing cross Z+/Z-
  - Reducing cross (side)
  - Tee-piece branch
  - Tee-piece branch Z+/Z-
  - Tee-piece branch (oblique)
  - Tee-piece branch (oblique) Z+/Z-
  - Pipe truncated
- Pipes flex

| Installation and drawing |  |
|--------------------------|--|
| Installation             | <span style="color: red;">■</span> Supply  |
| Type                     | Cross (asymmetric) (side)  |
| Manufacturer and type    |  |
| Manufacturer             | --   |
| Type                     |  |
| Product                  |  |
| Dimensions               |  |
| Diameter: D              | 114.3  |
| Diameter: D3             | 114.3  |
| Diameter: D4             | 114.3  |
| Length automatically     | <input checked="" type="checkbox"/>  |
| Length: L1               | 105  |
| Length: L2               | 105  |
| Length: L3               | 105  |
| Angle: Alfa              | 90   |
| Draw a symbol 2D         | <input checked="" type="checkbox"/>  |
| Options                  |  |
| Insert point             | <input type="radio"/> branching (1)<br><input checked="" type="radio"/> axis (2)<br><input type="radio"/> edge (3) |
| Type                     | <input checked="" type="radio"/> view from right (R)<br><input type="radio"/> view from left (L)                   |
| Installation fit         | <input checked="" type="checkbox"/>  |
| Insulation thickness     | 0  |

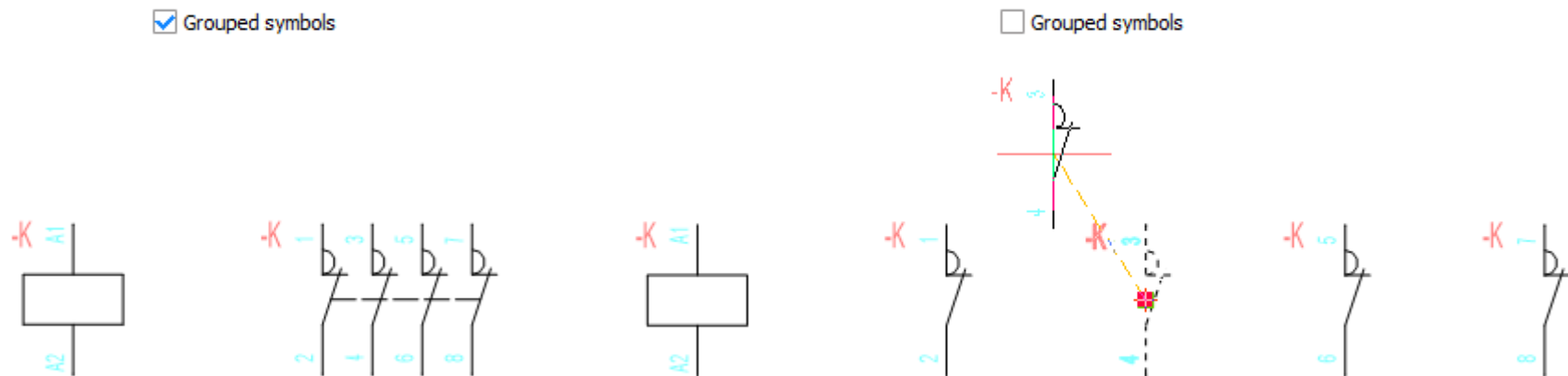
Description  
 Fixed dimensions  
 Apply polar tracking when drawing  
 Insert multiple

Sort
Current unit: millimetres
Copy dimensions >
OK



## ✓ CADprofi Electrical – extension of the IEC and NFPA complex apparatus

The functionality of complex apparatus available in the CADprofi program has been extended with the possibility of grouping or ungrouping main contacts which significantly improves and accelerates the creation of automation schemes.

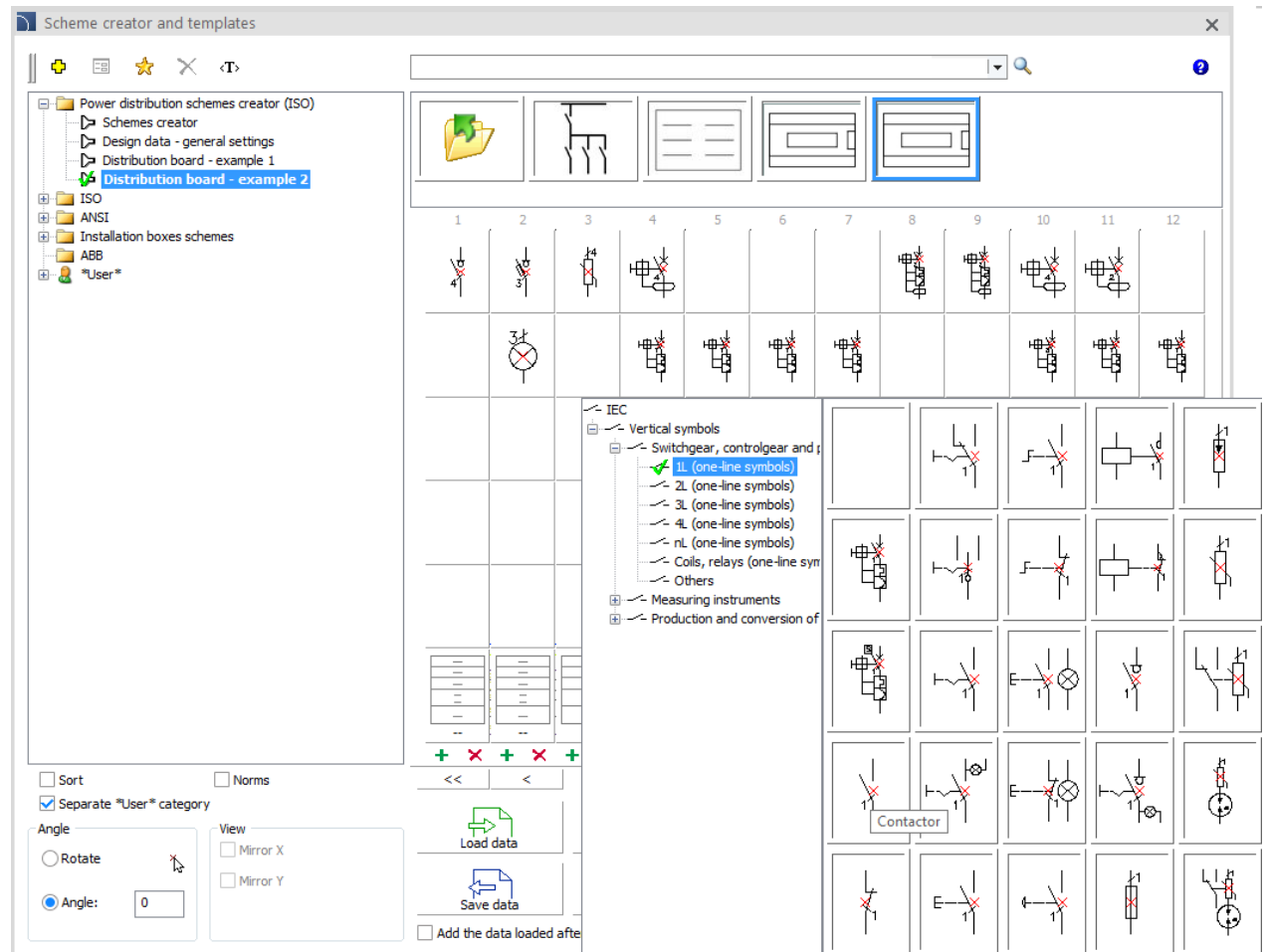


Additionally in complex apparatus it is now possible to add technical and identification data.

|  |     |              |                      |
|--|-----|--------------|----------------------|
| <input checked="" type="checkbox"/> Label          | >   | Article      | <input type="text"/> |
| <input type="text" value="-K"/>                    | >>> | Manufacturer | <input type="text"/> |
| Characteristics                                    |     | Reference    | <input type="text"/> |
| <input type="text"/>                               |     |              |                      |
| <input checked="" type="checkbox"/> Fill pins      |     |              |                      |
| <input type="text" value="A1\A2\1\2\3\4\5\6\7\8"/> | ▼   |              |                      |

## ✓ CADprofi Electrical – extension of the symbol library available in the schemes creator

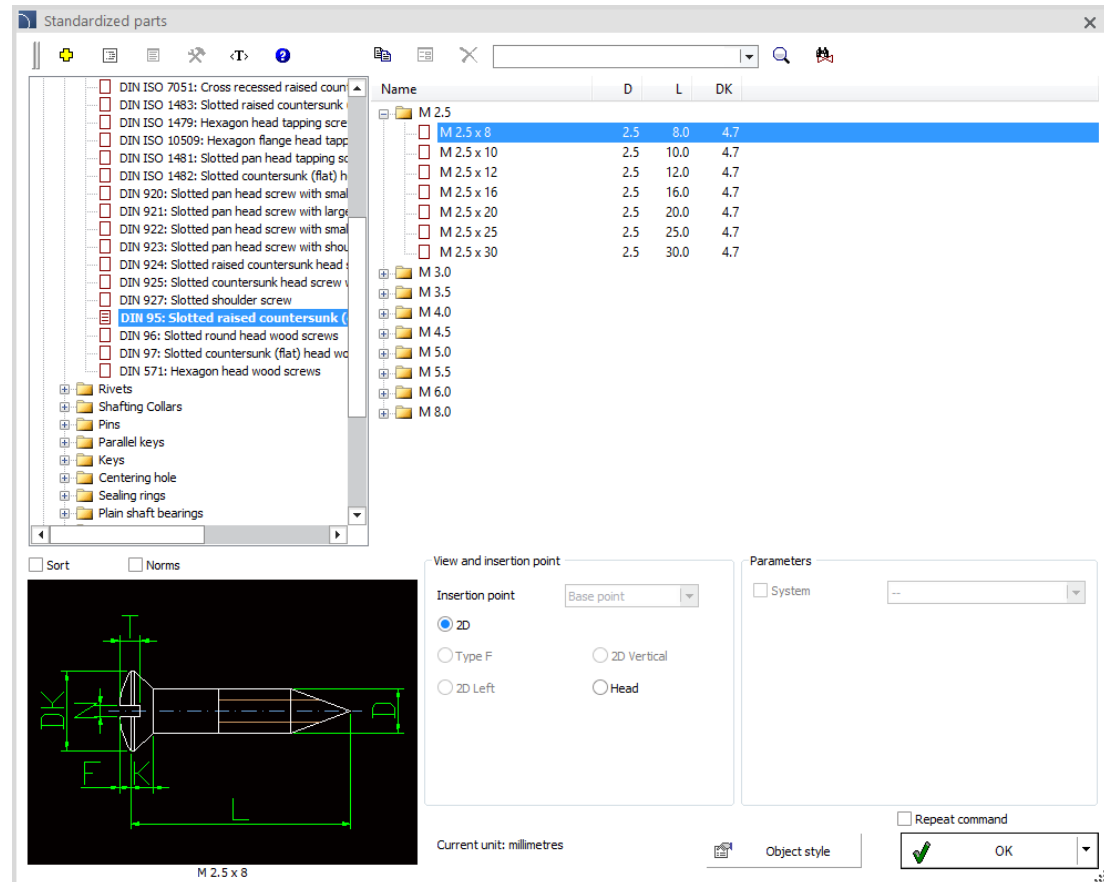
At the users request the symbol library available in the schemes creator have been extended with contractors, circuit breakers and change-over breakers.



## ✓ CADprofi Mechanical – additional DIN standards

Additional standardized DIN elements have been added to the program, including:

- Slotted raised countersunk oval head wood screws (DIN 95).
- Slotted round head wood screws (DIN 96).
- Slotted countersunk flat head wood screw (DIN 97).
- Hexagon head wood screws (DIN 571).



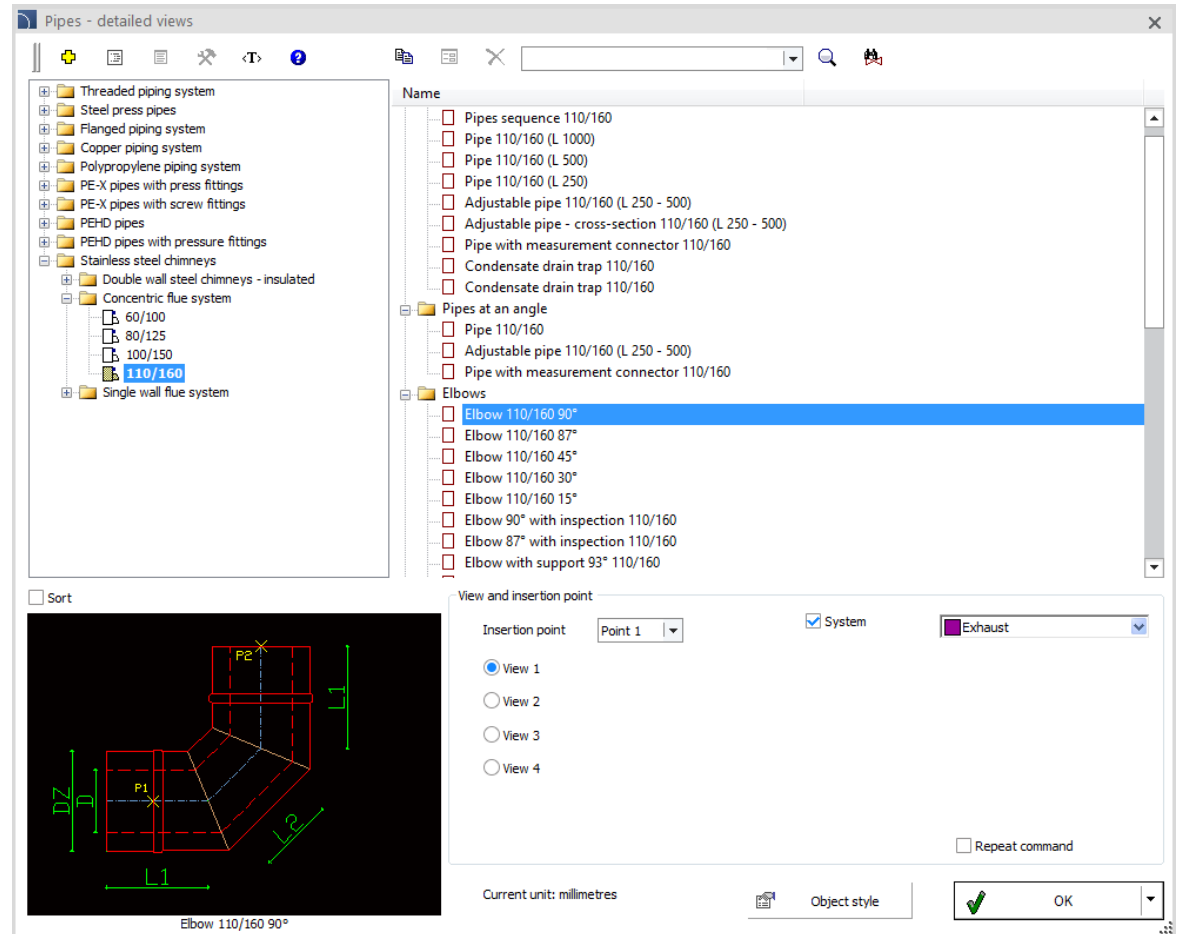


## ✓ CADprofi HVAC & Piping – single wall insulated and concentric flue chimney systems

A single-walled chimney system and a concentric air and flue system were added to the *Pipes – detailed views* command.



[Watch movie](#)



**Pipes - detailed views**

- Threaded piping system
  - Steel press pipes
  - Flanged piping system
  - Copper piping system
  - Polypropylene piping system
  - PE-X pipes with press fittings
  - PE-X pipes with screw fittings
  - PEHD pipes
  - PEHD pipes with pressure fittings
  - Stainless steel chimneys
    - Double wall steel chimneys - insulated
      - 60/100
      - 80/125
      - 100/150
      - 110/160**
    - Single wall flue system

**Name**

- Pipes sequence 110/160
- Pipe 110/160 (L 1000)
- Pipe 110/160 (L 500)
- Pipe 110/160 (L 250)
- Adjustable pipe 110/160 (L 250 - 500)
- Adjustable pipe - cross-section 110/160 (L 250 - 500)
- Pipe with measurement connector 110/160
- Condensate drain trap 110/160
- Condensate drain trap 110/160
- Pipes at an angle**
  - Pipe 110/160
  - Adjustable pipe 110/160 (L 250 - 500)
  - Pipe with measurement connector 110/160
- Elbows**
  - Elbow 110/160 90°**
  - Elbow 110/160 87°
  - Elbow 110/160 45°
  - Elbow 110/160 30°
  - Elbow 110/160 15°
  - Elbow 90° with inspection 110/160
  - Elbow 87° with inspection 110/160
  - Elbow with support 93° 110/160

Sort

**View and insertion point**

Insertion point: Point 1  System  Exhaust

View 1  
 View 2  
 View 3  
 View 4

Repeat command

Current unit: millimetres

Elbow 110/160 90°



# CADprofi

## ✓ CADprofi HVAC & Piping – heat pumps and supply-exhaust air centrals

Fujitsu, LG, Daikin, Mitsubishi and Samsung (Monoblock, Split, Split with a hot water storage) air/water heat pumps and supply-exhaust air central plants have been added to the *Objects – ventilation, air conditioning* command.



The screenshot displays the 'Objects - ventilation, air conditioning' window. On the left, a tree view shows a hierarchy of objects including 'Supply-air centrals', 'Supply-air central plant', 'Supply-exhaust air centrals plant', 'Cross-flow exchanger', 'Ventilations decentral', 'Pro-Vent', 'Air conditioners', 'Heat pumps', 'Air/Water', 'Monoblock', 'Split', 'Split - with a hot water storage', 'BH-Res', and 'Chemowent'. The 'Monoblock' folder is selected. On the right, a table lists objects with columns for Name, L, W, H, Manufacturer, Ref..., Capacit..., and Capacity... The table contains two rows: 'Outdoor Unit - 1 fan' (L: 875, W: 390, H: 750) and 'Outdoor Unit - 2 fans' (L: 1100, W: 390, H: 1300). Below the table, a 'View and insertion point' panel shows options for '2D', 'Hiding 1', and 'Side'. Dimensions are set to L = 875, W = 390, and H = 750. The 'System' checkbox is checked, and the 'Supply air' dropdown is selected. The 'Article' field is set to 'Outdoor Unit - 1 fan'. The 'Current unit: millimetres' is indicated. An 'OK' button is visible at the bottom right.

| Name                  | L    | W   | H    | Manufacturer | Ref... | Capacit... | Capacity... |
|-----------------------|------|-----|------|--------------|--------|------------|-------------|
| Outdoor Unit - 1 fan  | 875  | 390 | 750  |              |        |            |             |
| Outdoor Unit - 2 fans | 1100 | 390 | 1300 |              |        |            |             |



# CADprofi

## ✓ CADprofi HVAC & Piping – LPG containers

The *Parametrical objects* command has been extended with LPG containers, including Gaspol company containers.



The screenshot shows the 'Parametrical objects' dialog box. On the left is a tree view of container categories, with 'LPG container' selected. On the right is a table of container specifications. Below the table is a 2D technical drawing of a 1700 L container with dimension lines for diameter (D), length (L), and height (H). The bottom right of the dialog contains view and insertion point settings.

| Name          | D    | L    | L1  | H    | H1   |
|---------------|------|------|-----|------|------|
| 1700 l.       | 1250 | 1600 | 500 | 1600 | 1400 |
| 2700 l.       | 1250 | 2500 | 800 | 1600 | 1400 |
| 3600 l.       | 1250 | 3200 | 800 | 1600 | 1400 |
| 4850 l.       | 1250 | 4300 | 800 | 1600 | 1400 |
| 6400 l.       | 1250 | 5500 | 800 | 1600 | 1400 |
| 7000 l.       | 1250 | 6050 | 800 | 1600 | 1400 |
| 9250 l.       | 1250 | 7750 | 800 | 1600 | 1400 |
| 10000 l.      | 1250 | 8550 | 800 | 1600 | 1400 |
| 11500 l.      | 1250 | 9550 | 800 | 1600 | 1400 |
| <b>GASPOL</b> |      |      |     |      |      |
| 2700 l.       | 1250 | 2500 | 800 | 1600 | 1400 |
| 4850 l.       | 1250 | 4300 | 800 | 1600 | 1400 |
| 6700 l.       | 1250 | 5800 | 800 | 1600 | 1400 |

View and insertion point

2D  System

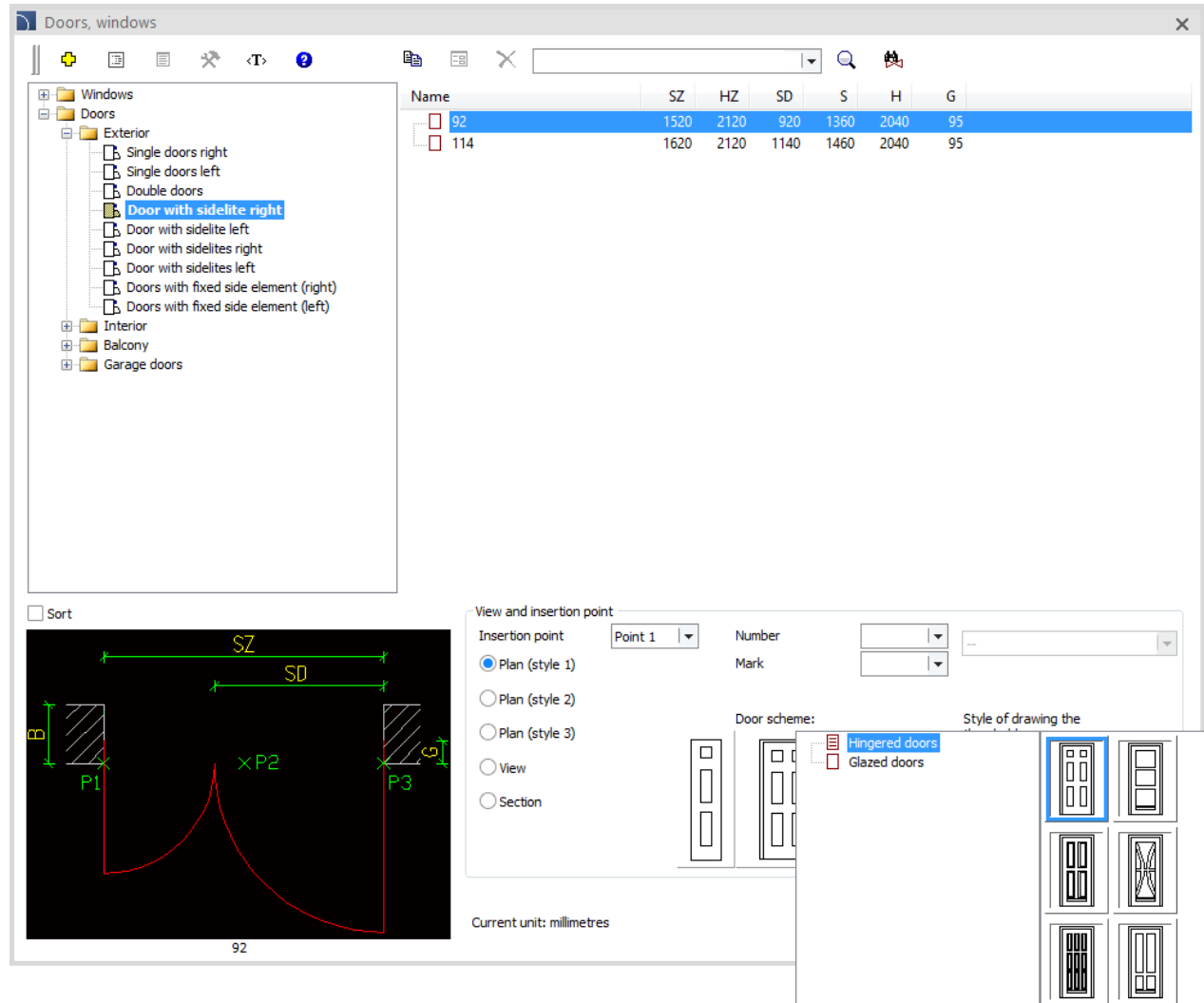
Front  Side

Repeat command

Current unit: millimetres

## ✓ CADprofi Architectural – Doors and garage doors– functionality extension

The library of doors and gates has been rebuilt and its functionality has been expanded. Program now allows user to visually choose models of door leaves, thanks to which user can choose and insert doors with the desired parameters much faster.



The screenshot displays the 'Doors, windows' library in CADprofi. The left pane shows a tree view of door categories: Windows, Doors (Exterior, Interior, Balcony, Garage doors), and various door types like 'Single doors right/left', 'Double doors', and 'Door with sidelite right/left'. The right pane shows a table of door parameters:

| Name  | SZ   | HZ   | SD   | S    | H    | G  |
|-------|------|------|------|------|------|----|
| □ 92  | 1520 | 2120 | 920  | 1360 | 2040 | 95 |
| □ 114 | 1620 | 2120 | 1140 | 1460 | 2040 | 95 |

Below the table is a technical drawing of a door with dimensions: SZ (width), HZ (height), SD (swing depth), S (swing radius), H (total height), and G (glazing height). Points P1, P2, and P3 are marked on the drawing. The bottom right shows a 'View and insertion point' panel with options for Plan (style 1, 2, 3), View, and Section. A 'Door scheme' panel shows 'Hinged doors' and 'Glazed doors' with a grid of door styles. The current unit is millimetres.



# CADprofi

## ✓ New F&F library

New library that is available in CADprofi program contains F&F products, including domestic and industrial automation.

Library is currently available in Polish language.



The screenshot shows the CADprofi software interface with the F&F library open. The library is organized into folders, and the 'Sterowniki Rolet' folder is selected. A table of articles is displayed, listing various roller blind controllers. The '2D Front' view is selected, and a 2D drawing of the STR-1 controller is shown. The drawing is a technical symbol with a red 'X' indicating the insertion point. The current unit is set to millimetres.

| Article                              | Description                               |
|--------------------------------------|---|
| <input type="checkbox"/> CZD         | Czujnik deszczu - sonda                   |
| <input type="checkbox"/> CZW         | Czujnik wiatru - anemometr                |
| <input type="checkbox"/> STR-1       | Sterownik roletowy, dwuprzyciskowy STR-   |
| <input type="checkbox"/> STR-2       | Sterownik roletowy, jedнопrzyciskowy STF  |
| <input type="checkbox"/> STR-21      | Sterownik roletowy, dwuprzyciskowy STR-   |
| <input type="checkbox"/> STR-22      | Sterownik roletowy, jedнопrzyciskowy STF  |
| <input type="checkbox"/> STR-3D      | Sterownik rolet do silników AC 100+265V / |
| <input type="checkbox"/> STR-3P      | Sterownik rolet do silników AC 100+265V / |
| <input type="checkbox"/> STR-421     | Sterownik roletowy, dwuprzyciskowy STR-   |
| <input type="checkbox"/> STR-421-24V | Sterownik roletowy, dwuprzyciskowy STR-   |
| <input type="checkbox"/> STR-422     | Sterownik roletowy, jedнопrzyciskowy STF  |
| <input type="checkbox"/> STR-422-24V | Sterownik roletowy, jedнопrzyciskowy STF  |
| <input type="checkbox"/> STR-4D      | Sterownik rolet do silników DC 10+27V DC  |
| <input type="checkbox"/> STR-4P      | Sterownik rolet do silników DC 10+27V DC  |
| <input type="checkbox"/> STR-R       | Czujnik deszczu zasilanie 100+265V AC     |
| <input type="checkbox"/> STR-S       | Czujnik wstrz'ów (sterowanie do markiz)   |
| <input type="checkbox"/> STR-W       | Czujnik siły wiatru zasilanie 100+265V AC |

View and insertion point:

- 2D Front
- Symbol (one-line vertical)
- Symbol (one-line horizontal)
- Symbol (multiline vertical)
- Symbol (multiline horizontal)

Labels' autonumbering

Current unit: millimetres

Repeat command:

OK



# CADprofi

✓ Update of manufacturers' libraries:



✓



# CADprofi

## ✓ Adjustment to many base CAD programs

CADprofi 2019.14 has been adjusted to work with latest CAD programs, including: progeCAD 2020 and ZWCAD 2020.

CADprofi 2019 currently works with many base CAD programs including: AutoCAD (since the 2000 version), BricsCAD, GstarCAD, IntelliCAD, progeCAD, ZWCAD, ARES Commander Edition and others.

The logo for AutoCAD, featuring the word 'AutoCAD' in a bold, red, sans-serif font with a registered trademark symbol.

The logo for ZWCAD, featuring the word 'ZWCAD' in a bold, blue, sans-serif font with a green leaf-like graphic above the 'W'.

The logo for GstarCAD, featuring the word 'GstarCAD' in a bold, blue and yellow, sans-serif font, with the tagline 'An Alternative CAD System' below it.

The logo for BricsCAD, featuring a stylized blue 'B' shape above the word 'BRICSCAD' in a bold, black, sans-serif font.

The logo for progeSOFT, featuring a blue globe with a yellow 'I' shape inside, above the word 'progeSOFT' in a blue, sans-serif font.

The logo for IntelliCAD, featuring a purple diamond shape with a yellow 'I' shape inside, above the word 'IntelliCAD' in a bold, purple, sans-serif font.

The logo for Gräbert ARES Commander, featuring a red, stylized flame-like graphic above the word 'Gräbert' in a small, black, sans-serif font, and the word 'ARES® Commander' in a large, bold, black, sans-serif font.



**CADprofi**



**CADprofi 2019.11/12**





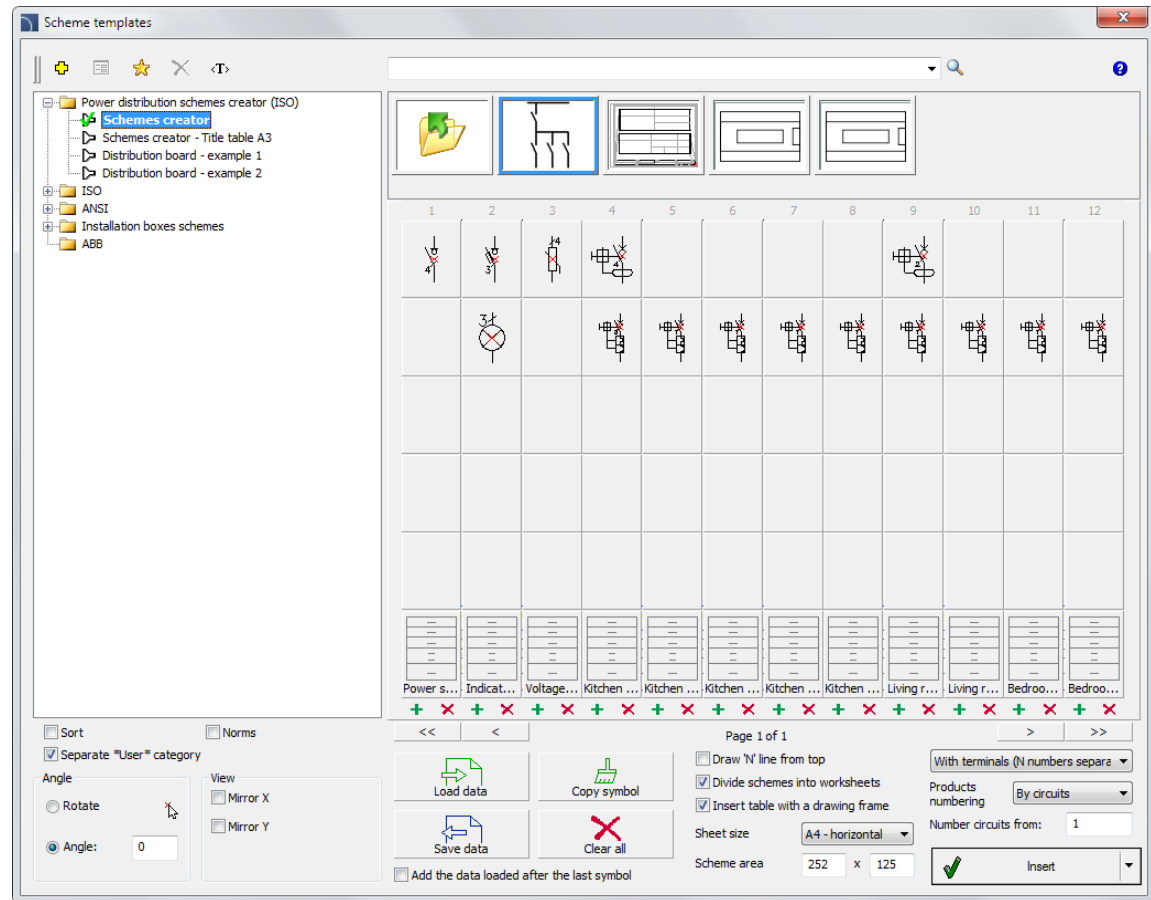
# CADprofi

## ✓ CADprofi Electrical – power distribution schemes creator

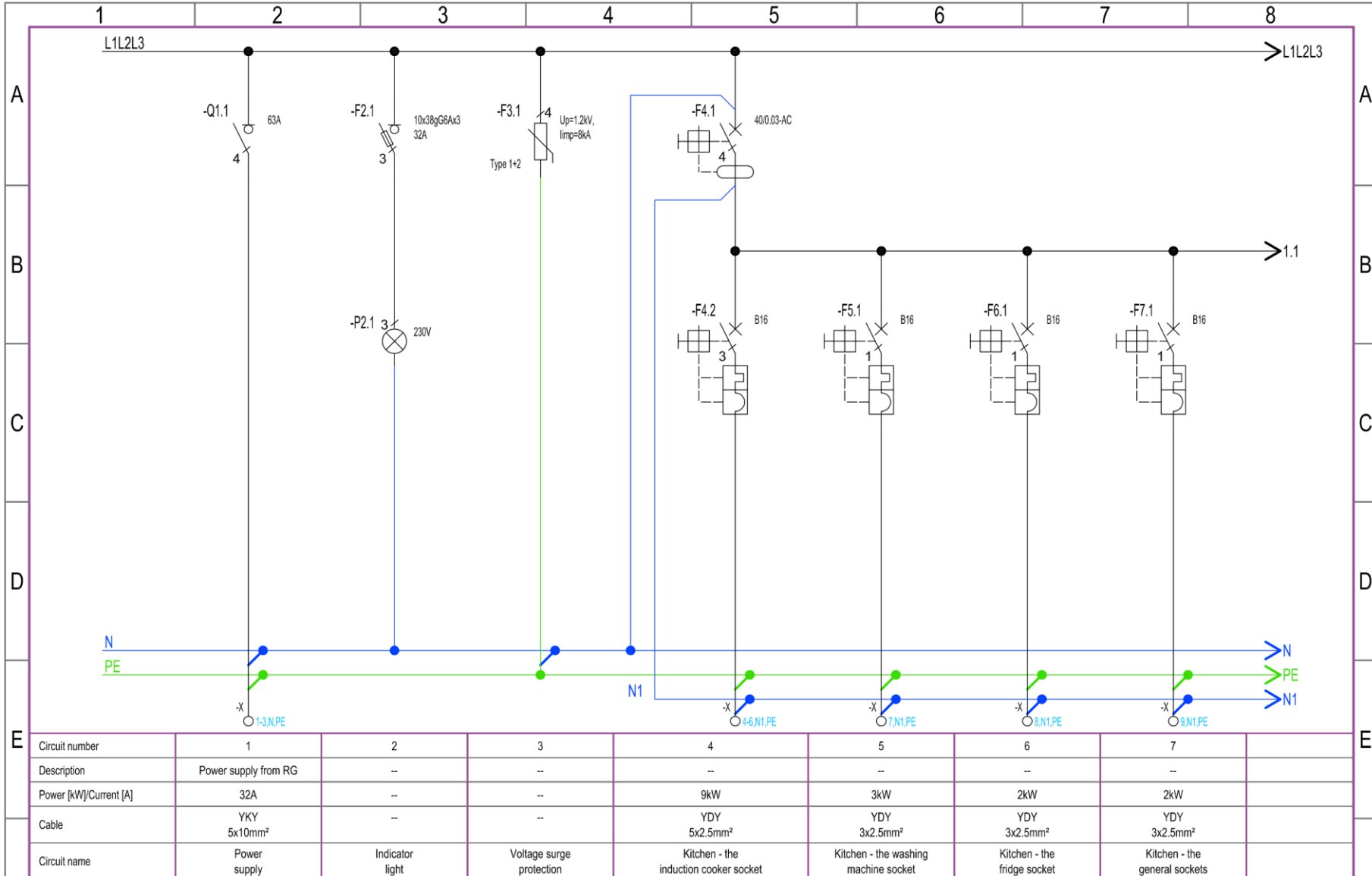
Schemes creator allows user to select products from the modular apparatus library and place them in certain positions in the scheme. This way you can quickly and easily define the logical structure of the whole power distribution by focusing only on the selection of products, rather than draw it manually.



[Watch movie](#)




## Example: Switchgear scheme automatically generated by the "Schemes creator" in the CADprofi program





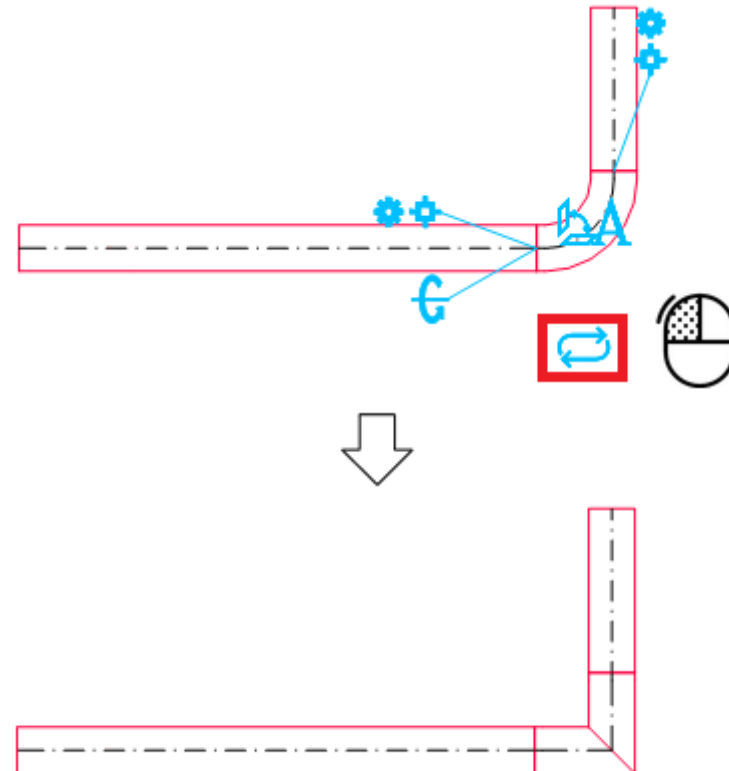
# CADprofi

## ✓ CADprofi – quick change of fitting type

The *Quick Edit* command has been extended with the possibility to quickly change the fitting type .



[Watch movie](#)







# CADprofi

## ✓ CADprofi HVAC & Piping – Bosch, Junkers and Immergas boilers

Bosch, Junkers and Immergas boilers have been added to the *Objects* command.

The existing Junkers and Immergas library has been updated and transferred to the CADprofi HVAC & Piping module.



# BOSCH



# JUNKERS



# IMMERGAS

The screenshot shows the 'Parametrical objects' window in CADprofi. The left pane displays a tree view of object categories, with 'Boilers' expanded to show various models. The right pane shows a table of selected objects with their dimensions.

| Name                    | A   | B   | H   |
|-------------------------|-----|-----|-----|
| 400/850                 | 400 | 360 | 850 |
| Junkers-Cerapur Compact |     |     |     |
| Junkers-Cerapur Comfort |     |     |     |
| Junkers-Cerapur Smart   |     |     |     |
| Bosch-Condens 7000      |     |     |     |
| GC 7000IW 14P           | 440 | 360 | 840 |
| GC 7000IW 24P           | 440 | 360 | 840 |
| GC 7000IW 24PB          | 440 | 360 | 840 |
| GC 7000IW 35P           | 440 | 360 | 840 |
| GC 7000IW 42P           | 440 | 360 | 840 |
| Bosch-Condens 9000      |     |     |     |
| Immergas-VICTRIX TERA   |     |     |     |

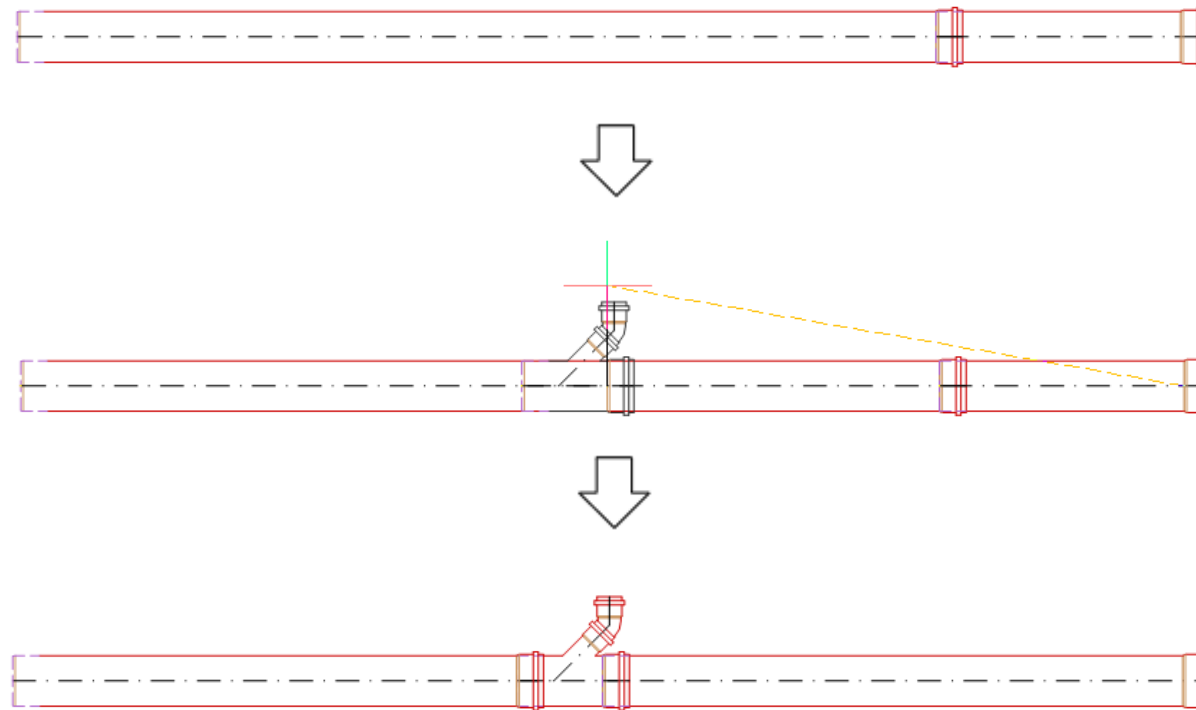
Below the table, there is a 'View and insertion point' section with radio buttons for '2D', 'Front', 'Side', and 'System', and a dropdown for 'Supply'. Dimensions are shown in input fields: A = 440, B = 360, H = 840, D = 80, D1 = 125. A 'Repeat command' checkbox is also present. At the bottom, the current unit is set to 'millimetres' and there is an 'OK' button.

The diagram shows a top-down view of a boiler footprint. It is a rectangle with a central circle representing the boiler. Dimensions are labeled: A (width), B (height), H (total height including piping), D (boiler diameter), and D1 (total diameter including piping). The boiler model is identified as 'GC 7000IW 24P'.

## ✓ CADprofi HVAC & Piping – inserting objects in bare-socket systems

The possibility to insert objects into sewerage and chimney ducts and other bare-socket systems has been added to the program. The new functionality allows for inserting drains, various fittings, revisions, etc.

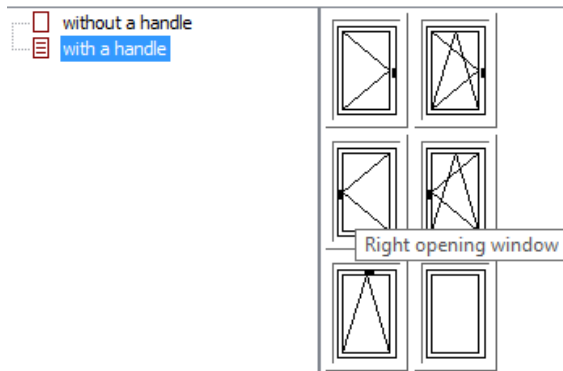
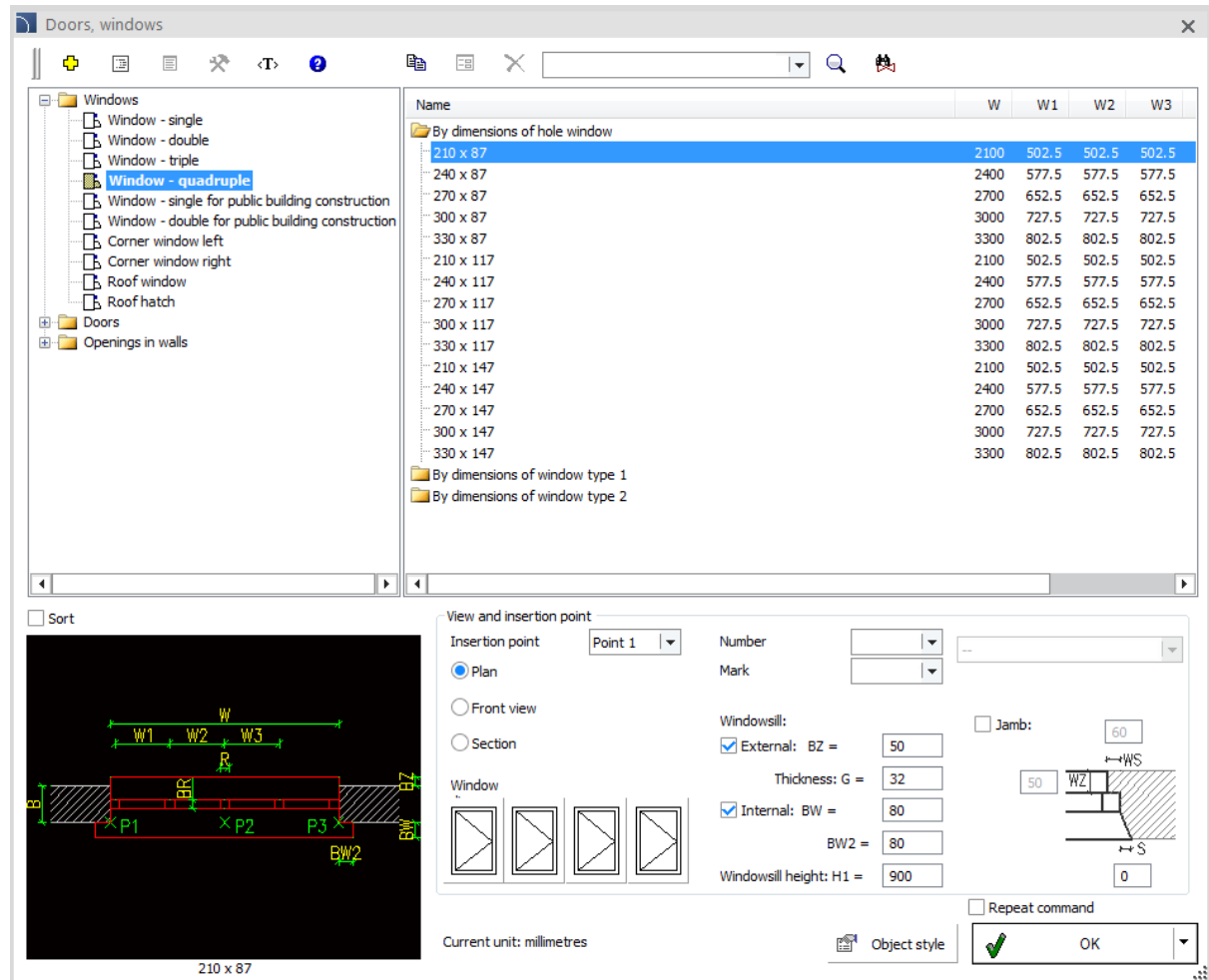
Additionally, when inserting T-pieces or cross-pieces, it is possible to automatically connect to them other lines.



## ✓ CADprofi Architectural – Windows – functionality extension

Windows available in the *Doors, windows* command have been extended with the possibility of specifying:

- Jamb dimensions, with an additional optional option of determining wall slant,
- windowsill dimensions, with an optional option of turning them off,
- window diagram (direction of opening of window wings).

| Name                           | W    | W1    | W2    | W3    |
|--------------------------------|------|-------|-------|-------|
| By dimensions of hole window   |      |       |       |       |
| 210 x 87                       | 2100 | 502.5 | 502.5 | 502.5 |
| 240 x 87                       | 2400 | 577.5 | 577.5 | 577.5 |
| 270 x 87                       | 2700 | 652.5 | 652.5 | 652.5 |
| 300 x 87                       | 3000 | 727.5 | 727.5 | 727.5 |
| 330 x 87                       | 3300 | 802.5 | 802.5 | 802.5 |
| 210 x 117                      | 2100 | 502.5 | 502.5 | 502.5 |
| 240 x 117                      | 2400 | 577.5 | 577.5 | 577.5 |
| 270 x 117                      | 2700 | 652.5 | 652.5 | 652.5 |
| 300 x 117                      | 3000 | 727.5 | 727.5 | 727.5 |
| 330 x 117                      | 3300 | 802.5 | 802.5 | 802.5 |
| 210 x 147                      | 2100 | 502.5 | 502.5 | 502.5 |
| 240 x 147                      | 2400 | 577.5 | 577.5 | 577.5 |
| 270 x 147                      | 2700 | 652.5 | 652.5 | 652.5 |
| 300 x 147                      | 3000 | 727.5 | 727.5 | 727.5 |
| 330 x 147                      | 3300 | 802.5 | 802.5 | 802.5 |
| By dimensions of window type 1 |      |       |       |       |
| By dimensions of window type 2 |      |       |       |       |

Sort

View and insertion point

Insertion point: Point 1

Number: [ ]

Mark: [ ]

View:  Plan  Front view  Section

Window: [ ] [ ] [ ] [ ]

Windowsill:  External: BZ = 50  Jamb: 60

Thickness: G = 32

Internal: BW = 80

BW2 = 80

Windowsill height: H1 = 900

Repeat command:

Current unit: millimetres

Object style: [ ]

OK

210 x 87



# CADprofi

## ✓ Update of manufacturers' libraries:



*Library has been moved to  
CADprofi HVAC & Piping*



*Library has been moved to  
CADprofi HVAC & Piping*



*Library has been moved to  
CADprofi HVAC & Piping*



*Product available in  
CADprofi HVAC & Piping*



*Product available in  
CADprofi HVAC & Piping*





# CADprofi

## ✓ Adjustment to many base CAD programs

CADprofi 2019.11/12 has been adjusted to work with latest CAD programs, including: AutoCAD 2020 and Ares Standard 2019.

CADprofi 2019 currently works with many base CAD programs including: AutoCAD (since the 2000 version), BricsCAD, GstarCAD, IntelliCAD, progeCAD, ZWCAD, ARES Commander Edition and others.

The logo for AutoCAD, featuring the word 'AutoCAD' in a bold, red, sans-serif font with a registered trademark symbol.

The logo for ZWCAD, featuring the word 'ZWCAD' in a bold, blue, sans-serif font with a green leaf-like graphic above the 'W'.

The logo for GstarCAD, featuring the word 'GstarCAD' in a bold, blue and yellow, sans-serif font, with the tagline 'An Alternative CAD System' below it.

The logo for BricsCAD, featuring a stylized blue 'B' shape above the word 'BRICSCAD' in a bold, black, sans-serif font.

The logo for progeSOFT, featuring a blue globe with a yellow 'I' shape above the word 'progeSOFT' in a blue, sans-serif font.

The logo for IntelliCAD, featuring a purple diamond shape with a yellow 'I' shape above the word 'IntelliCAD' in a bold, purple, sans-serif font.

The logo for Gräbert ARES Commander, featuring a red, stylized 'A' shape above the word 'Gräbert' in a small, black, sans-serif font, and 'ARES® Commander' in a large, bold, black, sans-serif font.



**CADprofi**



**CADprofi 2019.07**



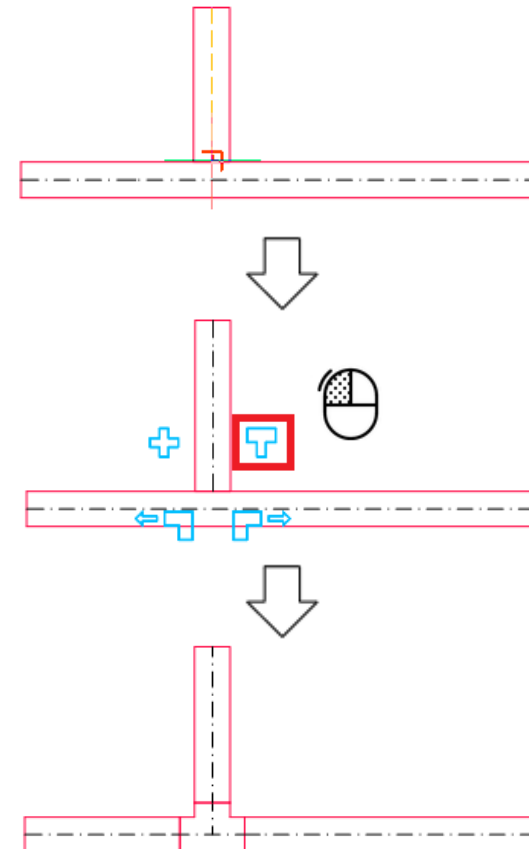
# CADprofi

## ✓ CADprofi – quick 2D connections

When drawing lines / ducts, it is now possible to automatically connect them by using elbows, bends, T-pieces or cross-pieces.



[Watch movie](#)

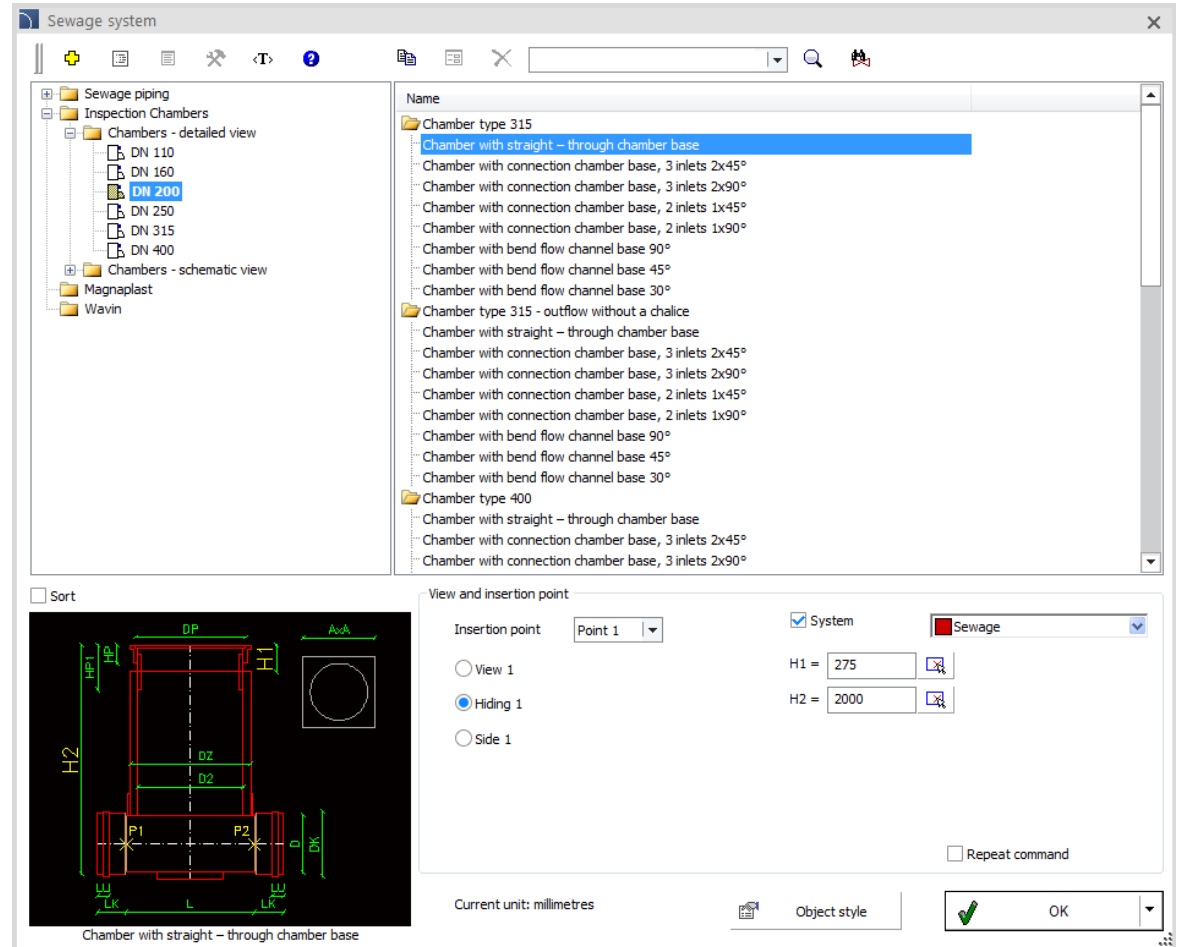




# CADprofi

## ✓ CADprofi HVAC & Piping – inspection chambers

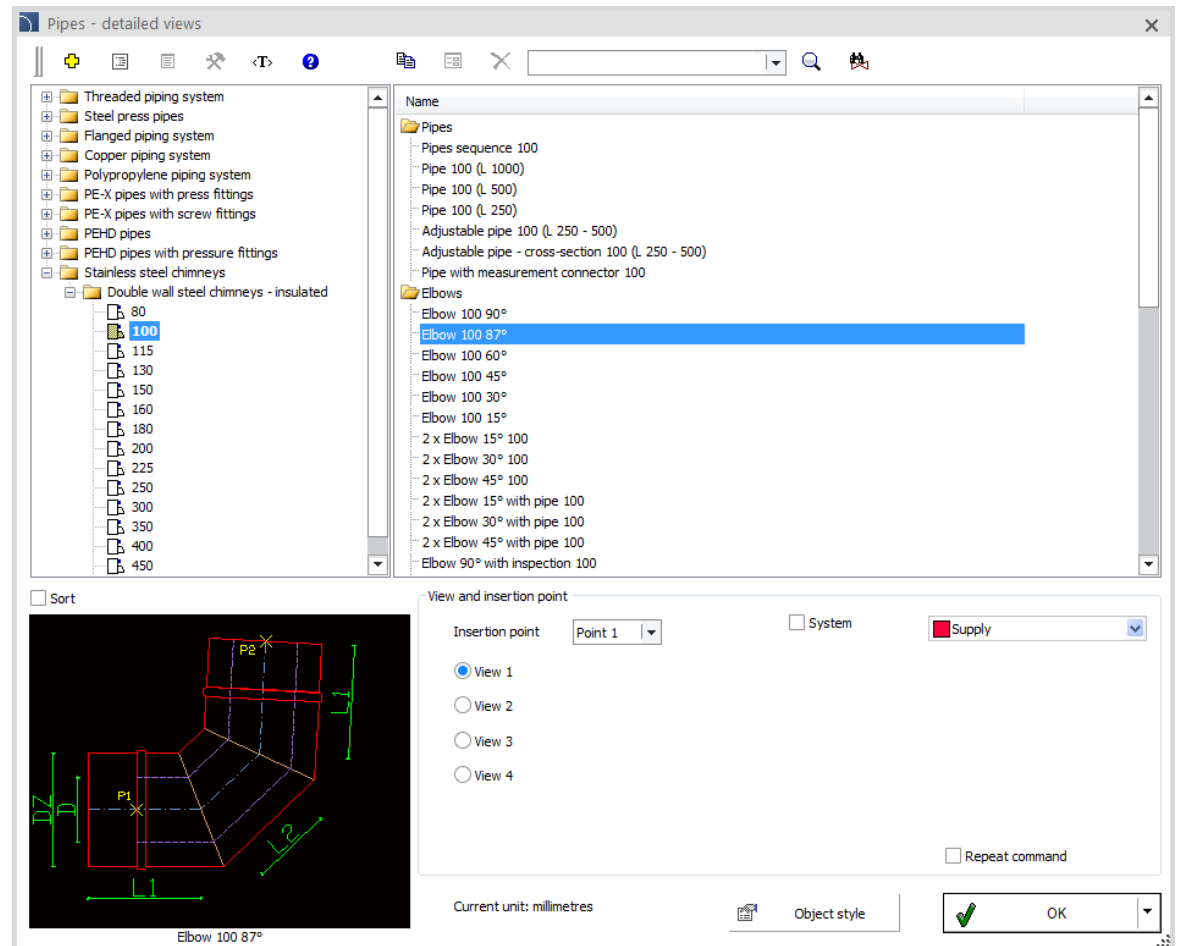
Inspection chambers with detailed and schematic views have been added to the *Sewage system* command.



## ✓ CADprofi HVAC & Piping – chimneys system

Double wall steel insulated chimney system has been added to the *Pipes – detailed view* command.

This system can be used to design chimneys from 80mm to 500mm. Both pipes and fittings (elbows, tees, offsets and inspection doors) are available, as well as, additional accessories (brackets, caps, base plates, roof passages).





# CADprofi

## ✓ Adjustment to many base CAD programs

CADprofi 2019.07 has been adjusted to work with latest CAD programs, including: ARES Commander 2019, IBSCAD 2018.

CADprofi 2019 currently works with many base CAD programs including: AutoCAD (since the 2000 version), BricsCAD, GstarCAD, IntelliCAD, progeCAD, ZWCAD, ARES Commander Edition and others.

The logo for AutoCAD, with the word "AutoCAD" in a bold, red, sans-serif font.

The logo for ZWCAD, with the word "ZWCAD" in a bold, blue, sans-serif font. The "W" has a green leaf-like shape above it.

The logo for GstarCAD, with "Gstar" in blue and "CAD" in yellow, followed by the tagline "An Alternative CAD System" in blue.

The logo for BricsCAD, featuring a stylized blue "B" shape above the word "BRICSCAD" in a bold, black, sans-serif font.

The logo for progeSOFT, featuring a blue globe with a yellow vertical bar and a yellow triangle on top, above the word "progeSOFT" in a blue, sans-serif font.

The logo for IntelliCAD, featuring a purple diamond shape with a yellow vertical bar and a yellow triangle on top, above the word "IntelliCAD" in a bold, purple, sans-serif font.

The logo for Gräbert ARES Commander, featuring a red stylized flame or wing shape to the left of the text "Gräbert ARES® Commander" in a black, sans-serif font.



**CADprofi**

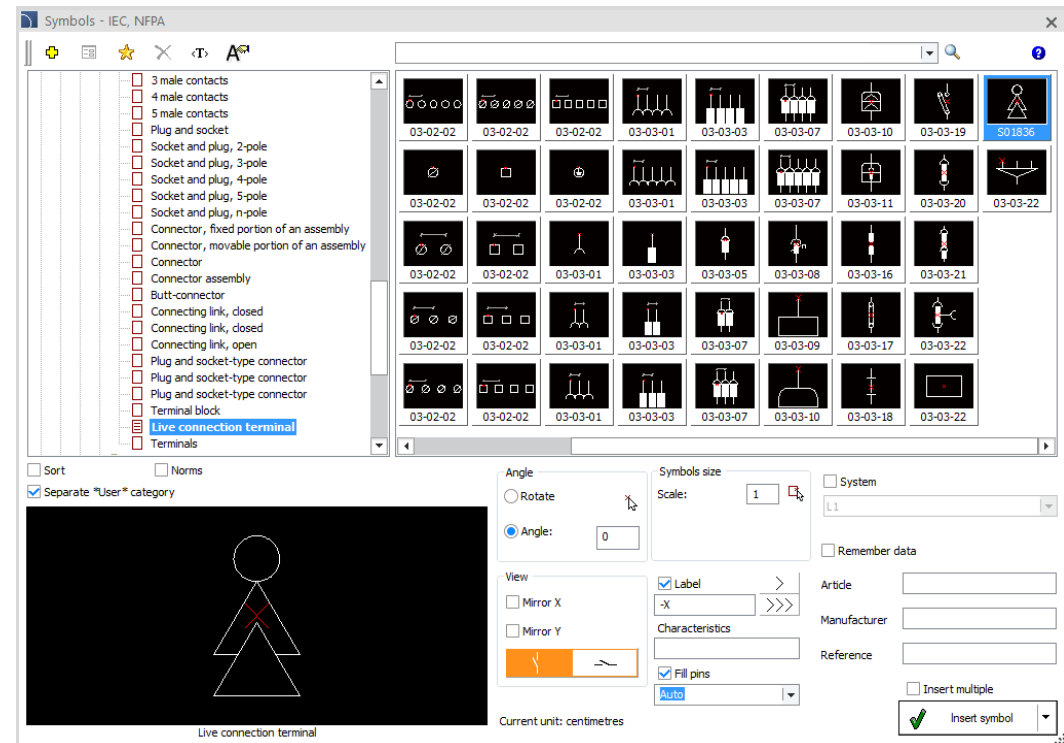


**CADprofi 2019.03**

## ✓ CADprofi Electrical – extension of IEC symbols

Additional symbols were introduced into the program in both vertical and horizontal views based on the IEC 60617:2012 standard.

Reference markings were also updated in accordance with the IEC 81246 standard.



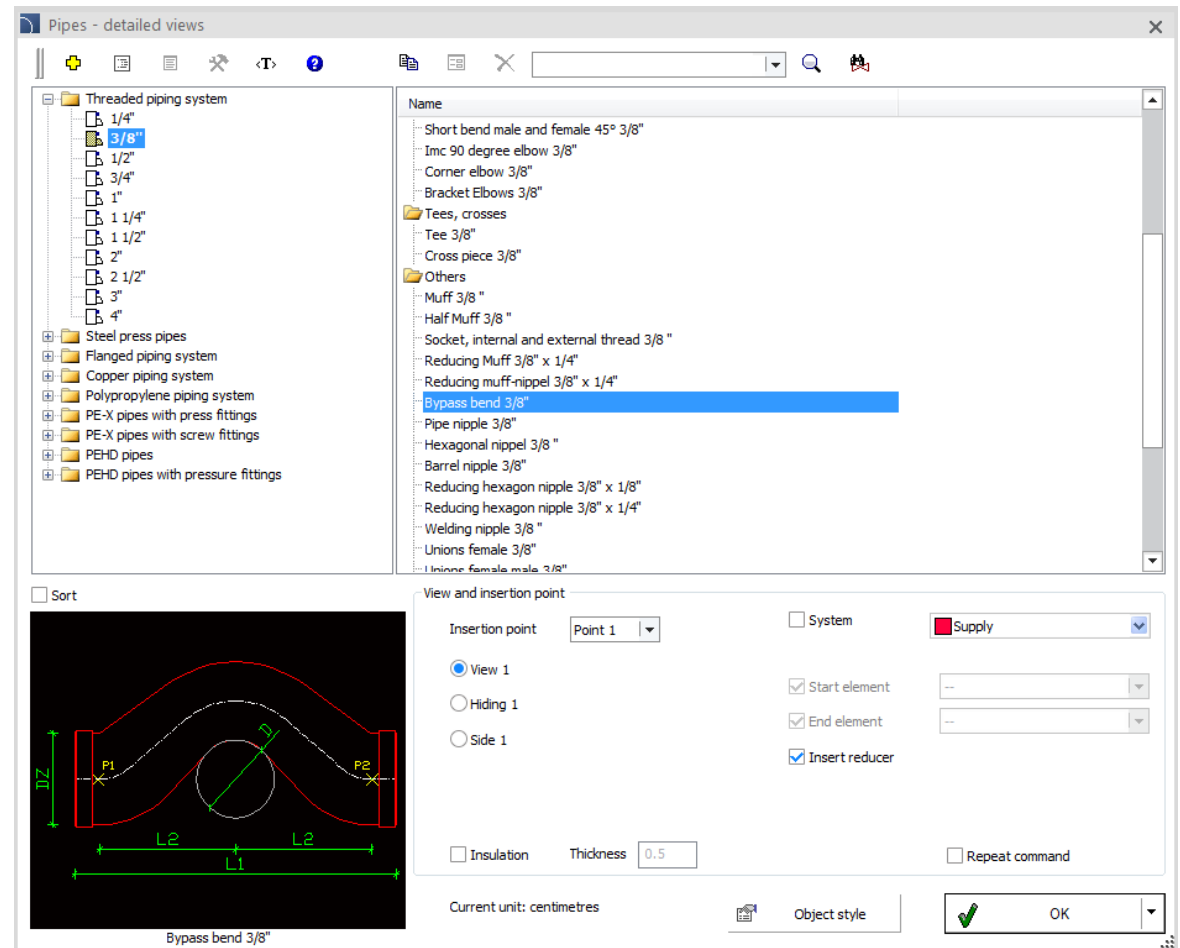




# CADprofi

## ✓ CADprofi HVAC & Piping – extension of the threading piping system

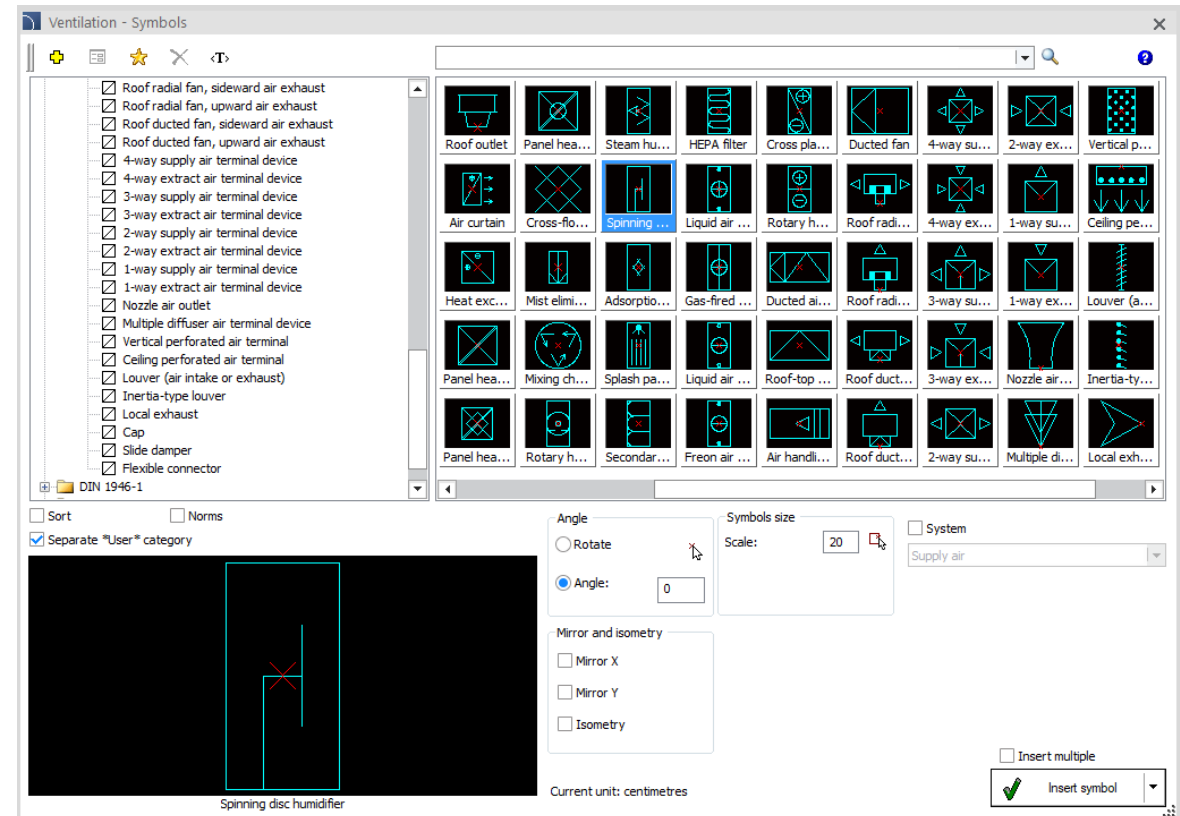
The threaded piping system has been extended with additional elements and fittings, including bypass bends, nipples and elbows.



## ✓ CADprofi HVAC & Piping – extension of ventilation symbol libraries

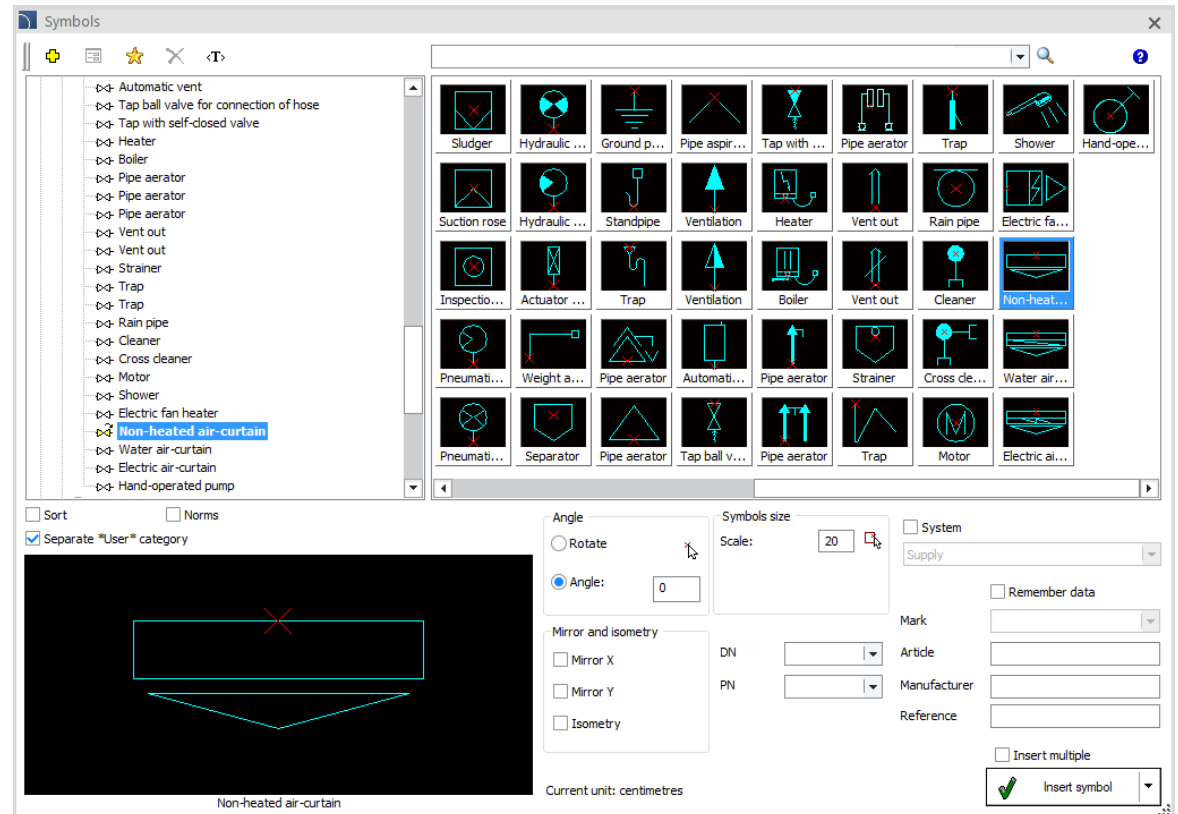
Additional symbols have been added to the program library, including:

- humidifiers (rotary, steam, spinning disc),
- dehumidifiers,
- filters (secondary, HEPA),
- air heaters (liquid, gas),
- air coolers (liquid, freon),
- air conditioners (duct, roof),
- fans (roof, duct),
- supply and extract air,
- air outlets,
- air terminals,
- louvers,
- caps,
- exhausts.



## ✓ CADprofi HVAC & Piping - extension of sanitary symbol libraries

The sanitary symbol library has been extended with new symbols e.g. air curtains (water, electric), hand operated pumps and fan heaters.





# CADprofi

✓ Update of manufacturers' libraries:





**CADprofi**



# **CADprofi 2019**

Summary of main changes made to the program since the CADprofi 2018.01 version.



# CADprofi

## Table of contents:

- [General commands \(affects all modules\)](#)
- [CADprofi Architectural](#)
- [CADprofi Electrical](#)
- [CADprofi Mechanical](#)
- [CADprofi HVAC & Piping](#)
- [Manufacturers libraries](#)
- [Adjustment to CAD programs](#)



# CADprofi

## ✓ CADprofi – Open BIM – export of CADprofi projects to the IFC format

CADprofi program allows for object classification and layer management based on Open BIM (IFC classification). The latest version of the program also allows for exporting CADprofi projects to the IFC format with the appropriate BIM attributes.

Export of CADprofi objects to IFC files is currently possible in CAD programs compatible with BIM eg BricsCAD BIM.



[Watch movie](#)

|   |                                 |
|---|---------------------------------|
| <b>BIM</b>                              |                                 |
| Type                                    | Flow Fitting                    |
| Name                                    | Vertical elbow '300+300 mm', RH |
| Description                             | Vertical elbow '300+300 mm', RH |
| Building                                |                                 |
| Story                                   |                                 |
| Composition                             |                                 |
| Display composition                     | Off                             |
| GUID                                    | 0ZlZqFijfABBcuyn5HIEXU          |
| <b>Distribution Flow Element Common</b> |                                 |
| Reference                               | -                               |
| <b>Manufacturer Type Information</b>    |                                 |
| Article number                          | -                               |
| Model reference                         | 504x0401                        |
| Model label                             | Vertical elbow '300+300 mm', RH |
| Manufacturer                            | Legrand-Zucchini                |
| Production year                         | File revision: 2018             |
| <b>BIM-Attributes</b>                   |                                 |
| Text01                                  |                                 |
| Text02                                  |                                 |
| Text03                                  |                                 |
| Text04                                  |                                 |



# CADprofi

## ✓ CADprofi – layer management based on the Open BIM classification

All CADprofi program objects are categorized in accordance with Open BIM (IFC classification). In CADprofi program it is possible to enable automatic layer management. With automatic layer management enabled, objects from individual BIM classes are inserted on the appropriate layer that is specified in the layer standard. User can create new layer standards on his own and adapt them to his needs.

**Layer management**

Automatically (in accordance with selected standard)

Layer standard  
CADprofi

You can add and edit your own layer standard.

Enable prefix '3D' for 3D objects

Extended layer name

Layer color from system

Insert objects on current layer

Fixed layer

Edit layer standard: Standard 1

BIM classes and layers from 'Standard 1' standard

Choose BIM class from object...

Selected BIM class

IFC class name: IfcAnnotation

Internal class name: hs:CpIsloHS

Selected BIM class layer

Objects layer for selected class: Insulation50

Set layer for selected BIM class

Insulation50

Filter list of layers (display only similar layers)

Layer properties

Line color: 131

Line weight: 0.18 mm

Line type: continuous

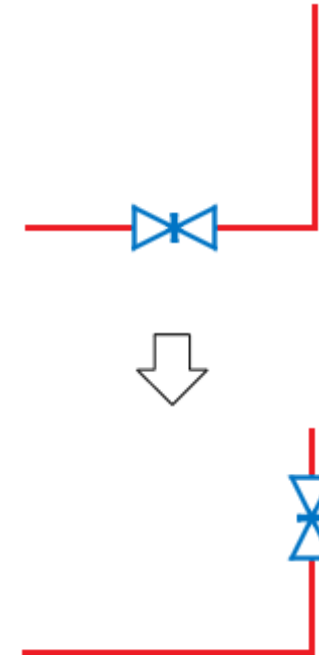
OK



## ✓ CADprofi – extension of the Quick edit command

The [Qucik edit](#) command allows user to perform basic editing operations on symbols and objects using special markers. In the latest version of the program, this command has been extended to allow the symbol to be conveniently moved to a different location in the drawing. If the moved symbol was previously inserted into the line, the program will connect this line automatically.

CADprofi has also introduced the possibility of running a quick edition command by double clicking on the edited object.

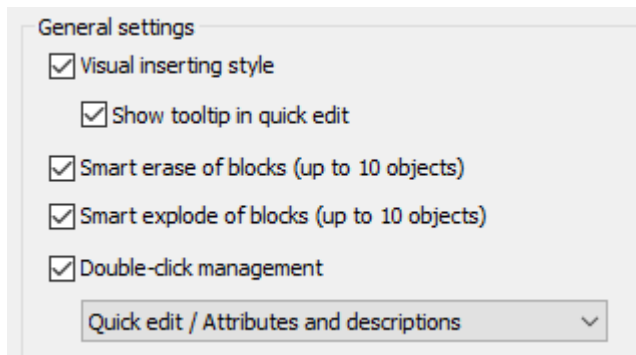




# CADprofi

## ✓ CADprofi – Explode (extension of the command)

In the CADprofi program, the *CADprofi – Explode* command is available, which allows, for example to explode the selected objects with insertion of 'Infoblocks' that retrieve information from exploded objects. Thanks to this, it is possible to make a graphical edition of the project, while preserving the data for the purpose of creating specifications. In the new version we have introduced the possibility to launch the *CADprofi – Explode command* when selecting the usual *Explode* command from the base CAD program.

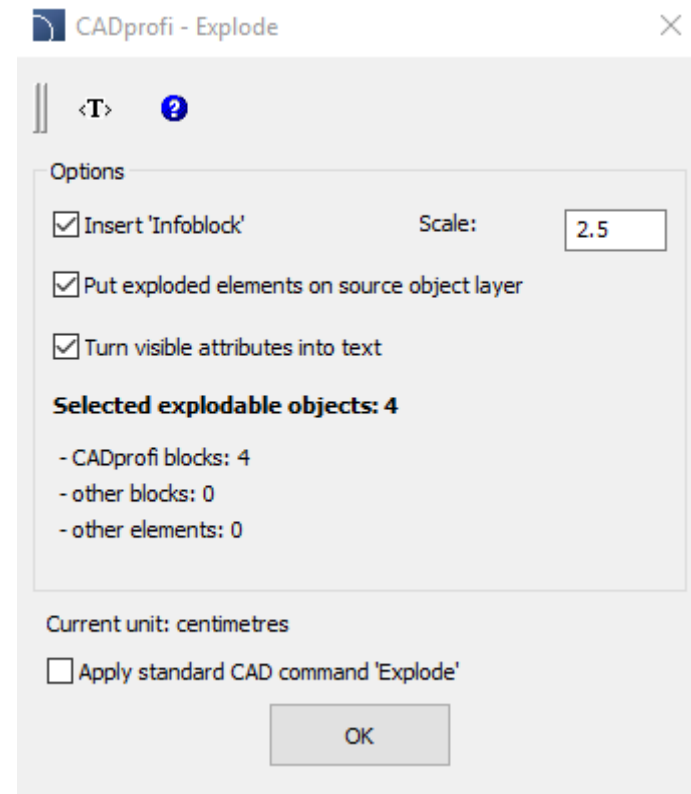


*Smart explode of blocks can be activated in CADprofi - Options*

Notice:

*CADprofi - Explode* will be launched, only when user selects blocks (symbols or objects) from CADprofi program.

This command works in selected CAD programs.



*CADprofi - Explode* command is being described in the online help. [Read more...](#)



## ✓ CADprofi – smart erasing of symbols and objects

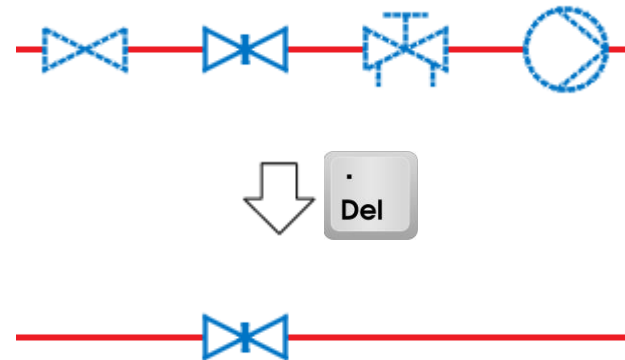
A convenient erasing of objects by using the **Delete** key have been added to the program. If user removes elements from lines then program will automatically connect these lines.

This command works in selected CAD programs.



[Watch video](#)

Smart erase (up to 10 objects)





# CADprofi

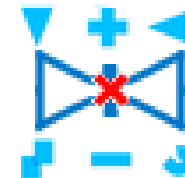
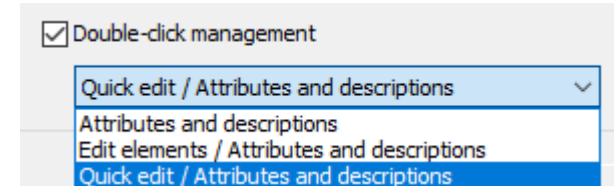
## ✓ CADprofi – double-click management

New version of CADprofi program have introduced the possibility to manage the action performed by double clicking. Depending on the selected option, double-clicking on the selected object can start the editing of symbols, editing attributes by using the "Attributes and descriptions" dialog window, [quick edit](#) or a standard base CAD program action.


This command works in selected CAD programs.



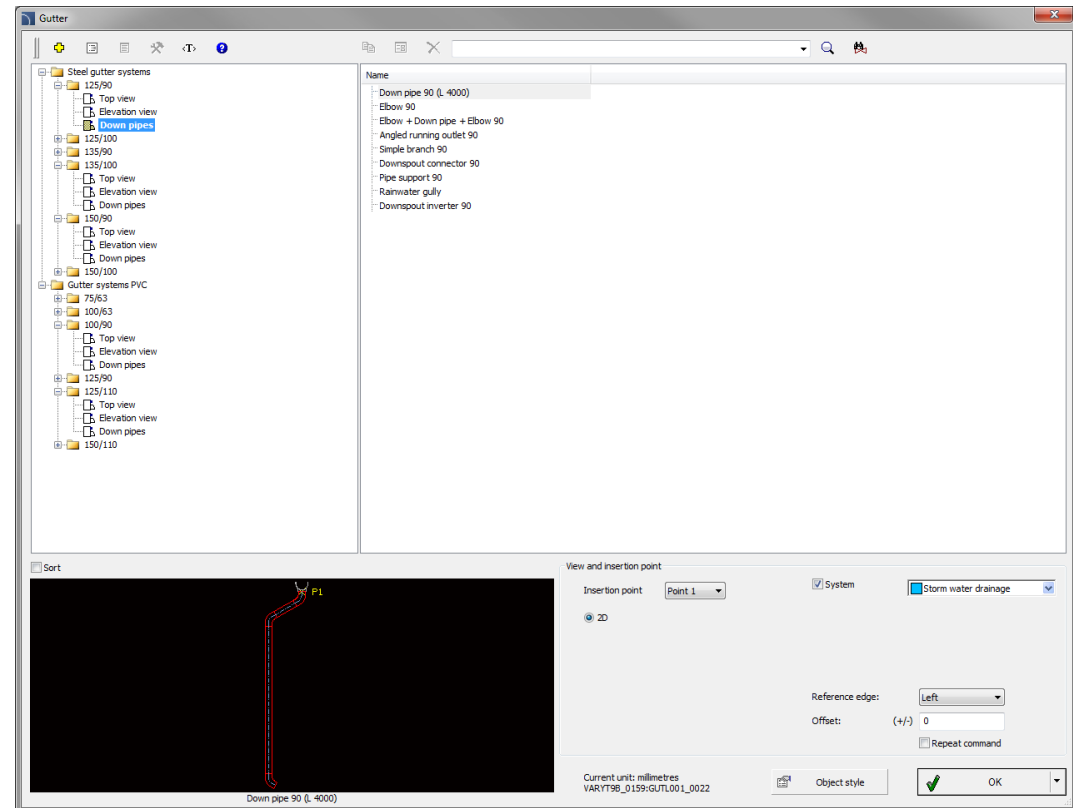
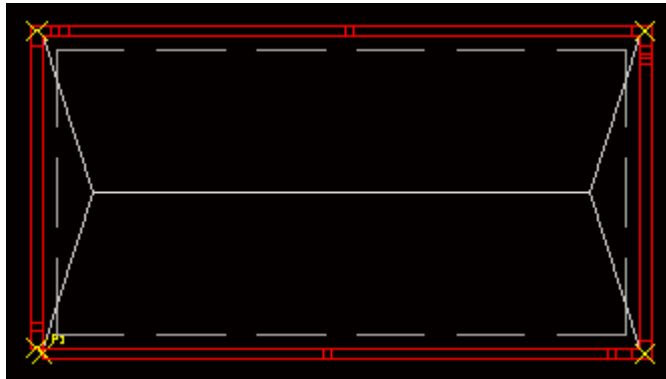
[Watch video](#)



## ✓ CADprofi Architectural – roof gutter system

A new "Gutters" command  has been added to the program.

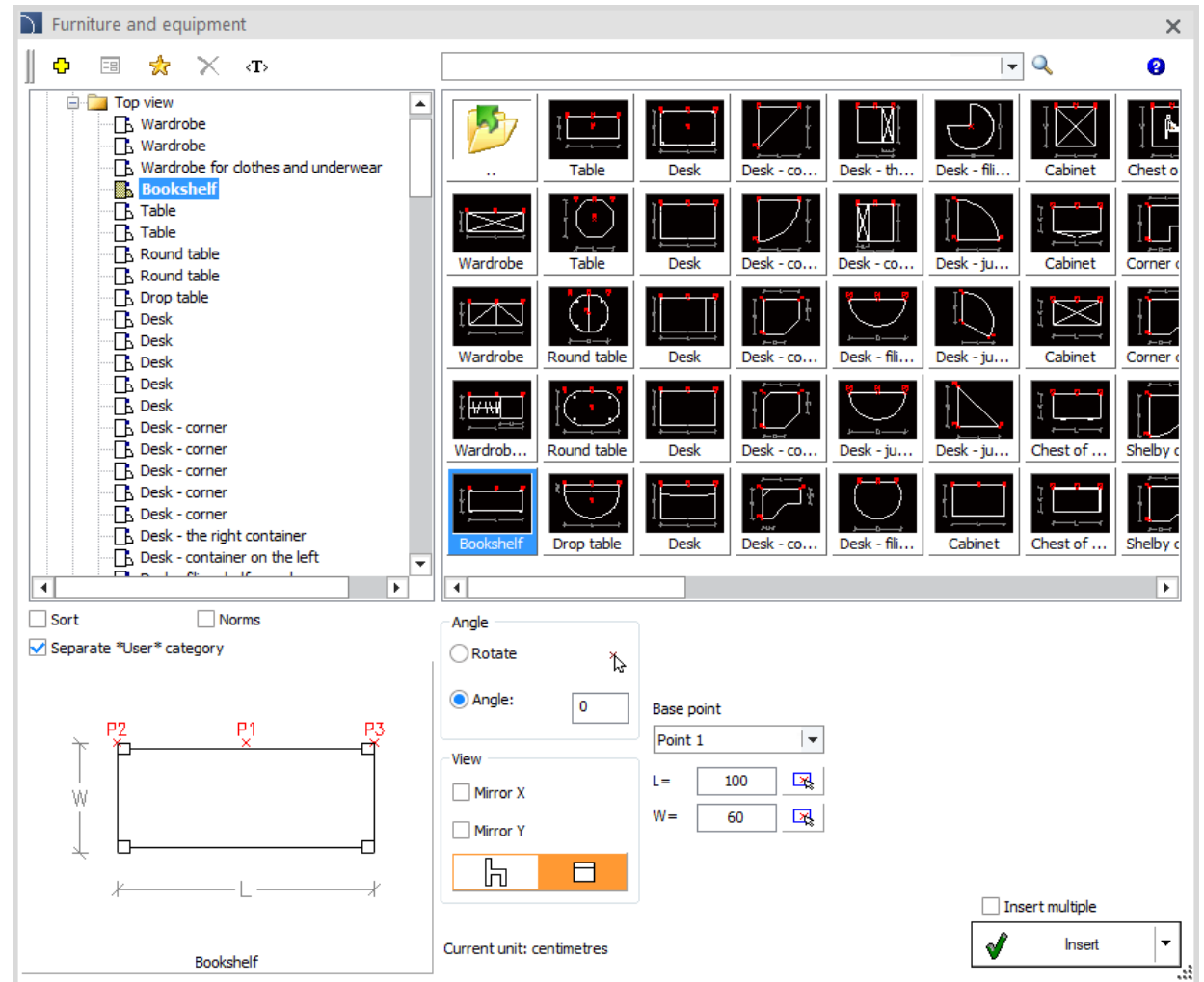
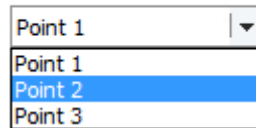
In this command user can find steel and PVC gutters in both top and elevation views, as well as, pipe drains with equipment.



## ✓ CADprofi Architectural – additional base points

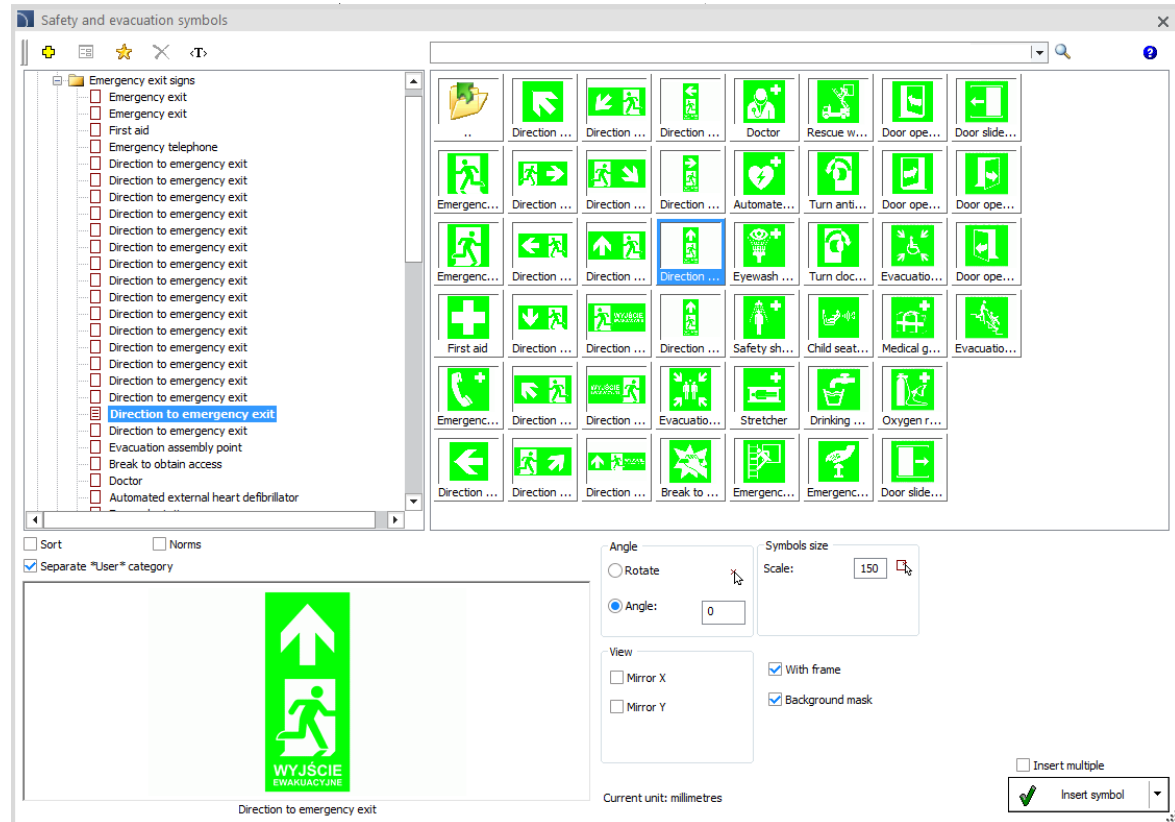
The symbols available in the furniture and equipment library have been extended with the inclusion of several available base points. This change makes it much easier and faster to insert elements into the drawing.

Base point






## ✓ CADprofi Architectural – extension of the evacuation symbols database

Additional symbols prepared in accordance to the ISO 7010 and PN-92/N-01256 standards have been added to the program.



## ✓ CADprofi Architectural – the possibility to determine the mounting height

*Furniture and equipment* command has been extended with the possibility to specify the mounting height (H1 dimension) bathroom-kitchen fittings and others (front view).

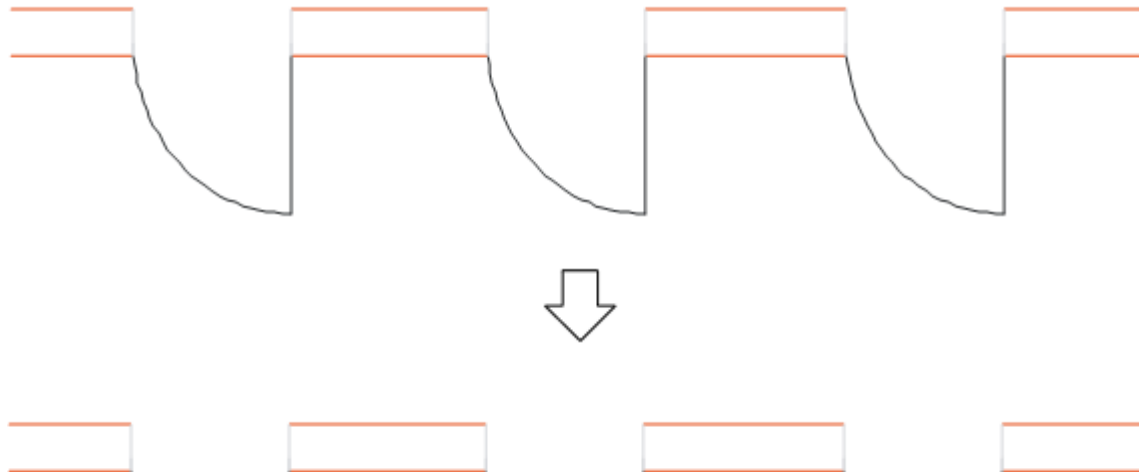
|     |     |   |
|-----|-----|---|
| L=  | 300 |  |
| H=  | 500 |  |
| H1= | 450 |  |





## ✓ CADprofi Architectural – the ability to hide the door leaf layer

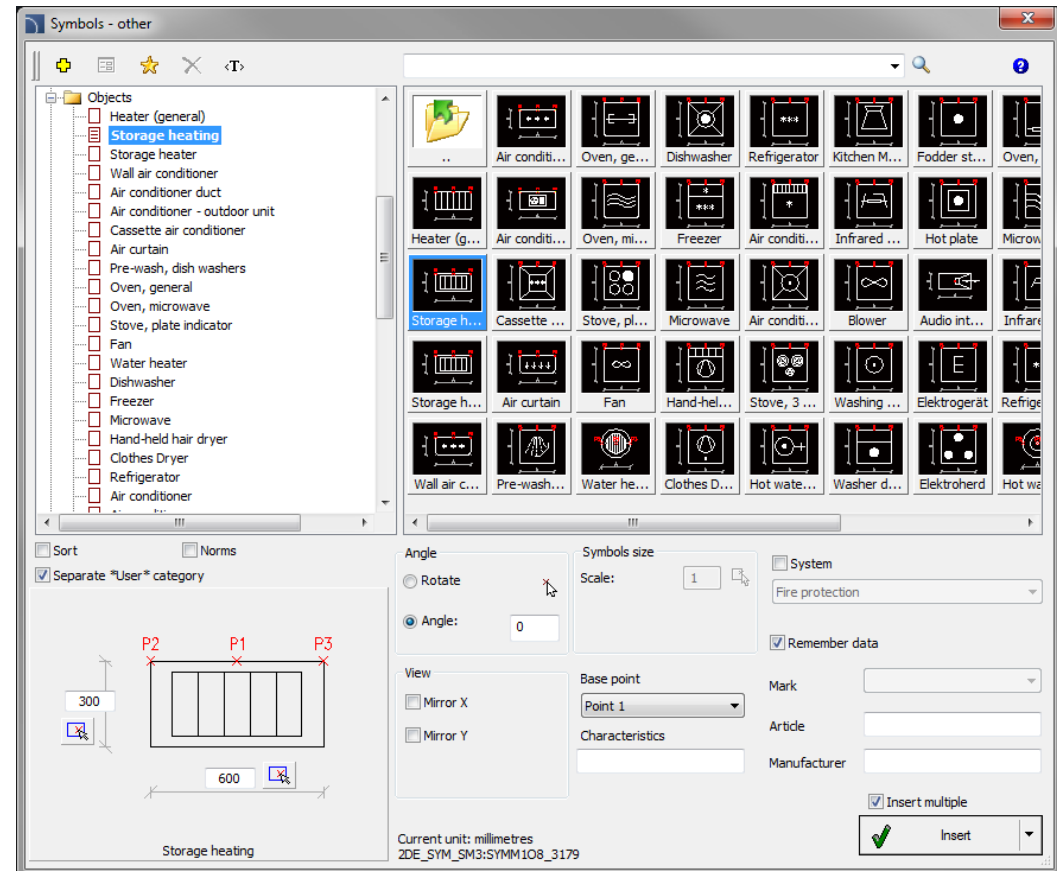
The possibility to hide the door leaf layer (CP\_DOORON layer) has been added to the program. This view allows for easier design of evacuation plans and fire protection installations.



## ✓ CADprofi Electrical – extension of library of symbols and objects

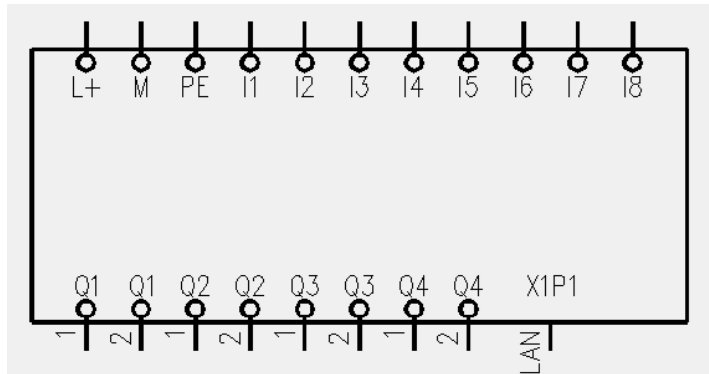
New parametrical symbols used for designing on building plans has been added to the program, including: heaters, air conditioners, fans, boilers, electric drives, rollers, descriptive symbols and many more.

Additional symbols for connection points have also been added to the program, including wall and ceiling outlets.



## ✓ CADprofi Electrical – Siemens PLC controllers

The content of *PLC controllers* and *Modular units* has been expanded with Siemens controllers (LOGO! 8, SIMATIC S7-1200, SIMATIC S7-1500 and operator panels).



The screenshot shows the 'Modular units' library on the left, listing various Siemens PLC components such as Fans, Pushbuttons, Indicator lights, Busbars, PLC Controllers, and SIMATIC S7-1200 modules. The main window displays a list of modules with columns for Name, A, and B. The 'Objects to insert' window is open, showing a table for selecting modules.

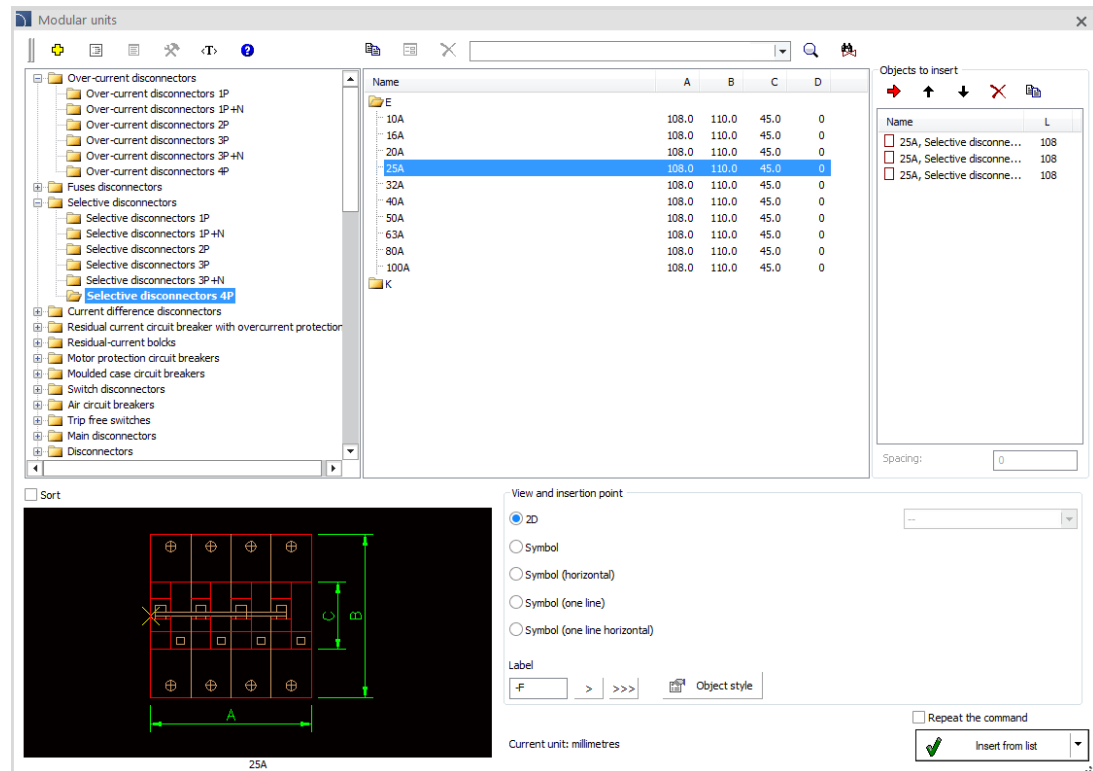
| Name                                     | A    | B     |
|--|------|-------|
| Digital input modules                    |      |       |
| SM 1221, 8DI x 24VDC                     | 4.50 | 10.00 |
| SM 1221, 16DI x 24VDC                    | 4.50 | 10.00 |
| SB 1221, 4DI x 5VDC, 200kHz              | 3.80 | 6.2   |
| SB 1221, 4DI x 24VDC, 200kHz             | 3.80 | 6.2   |
| Digital output modules                   |      |       |
| SM 1222, 8DQ x 24VDC                     | 4.50 | 10.00 |
| SM 1222, 16DQ x 24VDC                    | 4.50 | 10.00 |
| SM 1222, 8DQ x Relay                     | 4.50 | 10.00 |
| SM 1222, 16DQ x Relay                    | 4.50 | 10.00 |
| SM 1222, 8DQ x Relay Changeover          | 7.00 | 10.00 |
| SB 1222, 4DQ x 5VDC, 200kHz              | 3.80 | 6.2   |
| SB 1222, 4DQ x 24VDC, 200kHz             | 3.80 | 6.2   |
| Digital I/O modules                      |      |       |
| SM 1223, 8DI x 24VDC/8DQ x 24VDC         | 4.50 | 10.00 |
| SM 1223, 16DI x 24VDC/16DQ x 24VDC       | 7.00 | 10.00 |
| SM 1223, 8DI x 24VDC/8DQ x Relay         | 4.50 | 10.00 |
| SM 1223, 16DI x 24VDC/16DQ x Relay       | 7.00 | 10.00 |
| SM 1223, 8DI x 120/230VAC/8DQ x Relay    | 4.50 | 10.00 |
| SB 1223, 2DI x 24VDC/2DQ x 24VDC         | 3.80 | 6.2   |
| SB 1223, 2DI x 5VDC/2DQ x 5VDC, 200kHz   | 3.80 | 6.2   |
| SB 1223, 2DI x 24VDC/2DQ x 24VDC, 200kHz | 3.80 | 6.2   |

The configuration window for the 'SIMATIC S7-1200 Digital inputs module' shows a 2D view of the module with dimensions A, B, and C. The 'View and insertion point' section is set to '2D'. The 'Label' field contains '-K'. The 'Current unit' is set to 'centimetres'. The 'Repeat the command' checkbox is checked, and the 'OK' button is highlighted.

## ✓ CADprofi Electrical – extension of the modular apparatus library

Additional symbols including modular apparatus have been added to the program, including:

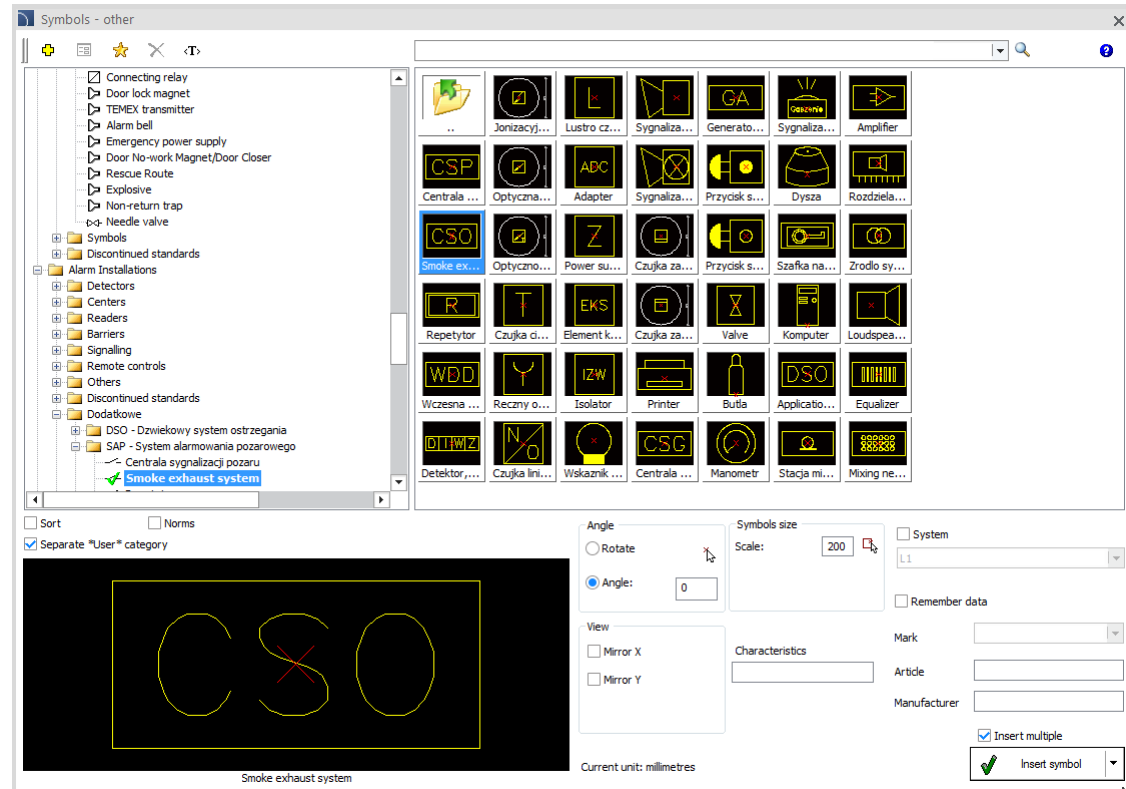
- Over-current disconnectors 4P.
- Selective disconnectors 2P.
- Selective disconnectors 4P.



## ✓ CADprofi Electrical – extension of the fire protection symbols

Additional fire protection symbols (e.g. smoke exhaust system, smoke extraction button, ventilation switch and multisensor detectors) have been added to the program.

|              |   |
|--------------|---|
| Mark         | Multisensor smoke and flame   |
| Article      | F - multisensor alarm with flasher<br>So - multisensor alarm with sounder<br>Sp - multisensor alarm with sounder and speech messages<br>FSp - multisensor alarm with flasher, sounder and speech messages |
| Manufacturer |   |



The screenshot displays the 'Symbols - other' library window in CADprofi Electrical. The library contains various fire protection symbols, including a 'Smoke exhaust system' symbol (CSO). The 'Smoke exhaust system' symbol is highlighted in the library grid. Below the library, a preview window shows the symbol 'CSO' with a red 'X' in the center, indicating its orientation. The preview window is labeled 'Smoke exhaust system'.

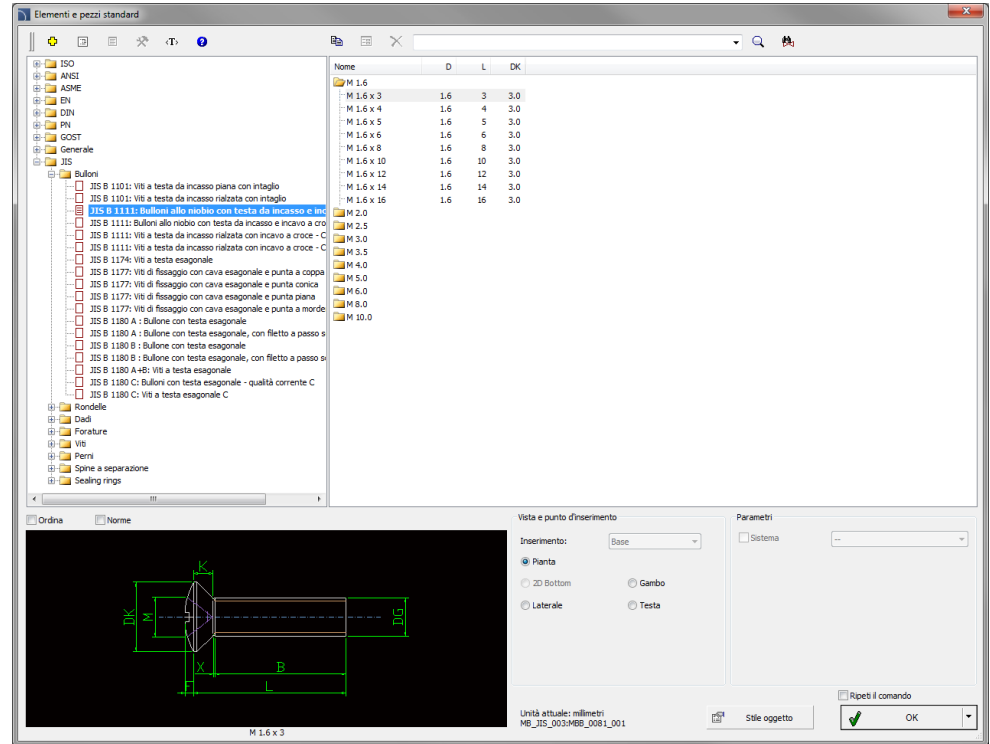
The interface also shows a list of symbols on the left, including 'Connecting relay', 'Door lock magnet', 'TELEX transmitter', 'Alarm bell', 'Emergency power supply', 'Door No-work Magnet/Door Closer', 'Rescue Route', 'Explosive', 'Non-return trap', and 'Needle valve'. The 'Smoke exhaust system' symbol is highlighted in the list.

At the bottom of the interface, there are settings for the symbol, including 'Angle' (0 degrees), 'Symbols size' (200), 'System' (L1), 'Mark', 'Article', and 'Manufacturer'. The 'Insert multiple' checkbox is checked, and the 'Insert symbol' button is visible.

## ✓ CADprofi Mechanical – additional JIS standards

Additional standardized JIS elements have been added to the program, including:

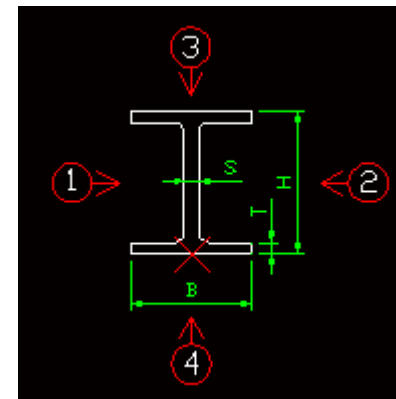
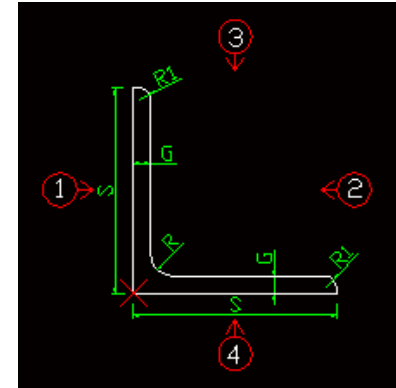
- Bolts (JIS 1101, JIS 1111, JIS 1174, JIS 1177, JIS 1180).
- Washers (JIS 1256, JIS 1251).
- Nuts (JIS 1181).
- Taped holes (JIS 0205, JIS 0206).
- Screws (JIS 1101, JIS 1115, JIS 1122, JIS 1123).
- Pins (JIS 1354, JIS 1355, JIS 1358, JIS 1359-1, JIS 1359-2A, JIS 2808).
- Split pins (JIS 1351).
- Sealing rings (JIS 2401-1, JIS 2402-1, JIS 2402-4).
- L-shape equal angles, L-shape unequal angles, U-shape (rolled), T-shape (Hot rolled) (JIS G 3192)
- L-shape unequal angles (JIS G 3192-1).
- L-shape unequal angles (JIS G 3192-2).
- Z-shape (JIS G 3350B).
- H-shape (Hot rolled wide-flange steel beams - Dimensions) (JIS G 3192 H).
- I-shape (Hot rolled) (JIS G 3192 I).
- Welded square/rectangular structural tubing (For precision applications) (JIS G-3466).
- Round steel rod (JIS G 3191A).
- Square steel rod (JIS G 3191 B).
- Rectangular steel rod (JIS 3194).
- Hexagon steel rod (JIS 3191C).



## ✓ CADprofi Mechanical – additional ISO standards

Additional standardized ISO elements have been added to the program, including:

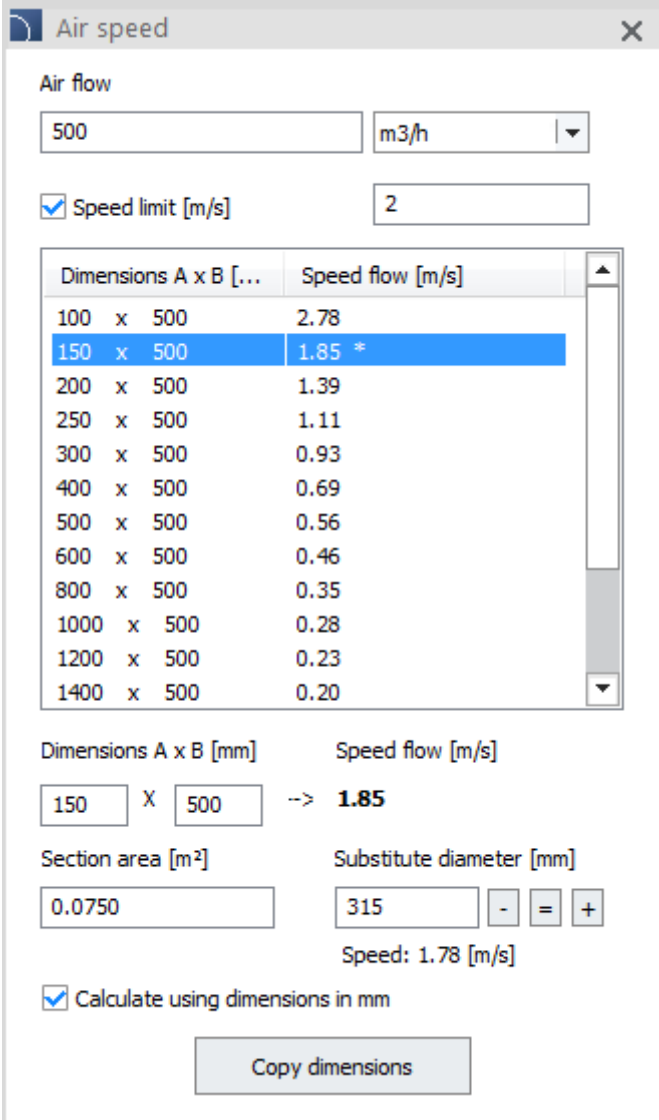
- Flat steel bar (Hot rolled) (ISO 1035-3).
- L-shape equal angles (ISO 657-1).
- L-shape unequal angles (ISO 657-2).
- U-shape (rolled) (ISO 657-11).
- T-shape (Hot rolled) (ISO 657-21).
- I-shape (Hot rolled) (ISO 657-15).
- Welded round/square/rectangular structural tubing (Cold formed welded structural hollow sections) (ISO 10799-2).
- Welded round/square/rectangular structural tubing.
- Round stainless steel bar (Hot rolled).
- Square steel bar (Hot rolled).



## ✓ CADprofi HVAC & Piping – calculations of air velocity in ventilation ducts

An option to calculate air flow rate for selected duct size have been added to *Ducts – general views* and *Ducts sequences – general views* commands.

When selecting rectangular ducts, the program also calculates the substitute diameter of the circular duct. In addition, it is possible to check the speed flow rate when selecting the standard diameters of the substitute duct.



**Air speed**

Air flow:

Speed limit [m/s]:

| Dimensions A x B [...] | Speed flow [m/s] |
|------------------------|------------------|
| 100 x 500              | 2.78             |
| <b>150 x 500</b>       | <b>1.85 *</b>    |
| 200 x 500              | 1.39             |
| 250 x 500              | 1.11             |
| 300 x 500              | 0.93             |
| 400 x 500              | 0.69             |
| 500 x 500              | 0.56             |
| 600 x 500              | 0.46             |
| 800 x 500              | 0.35             |
| 1000 x 500             | 0.28             |
| 1200 x 500             | 0.23             |
| 1400 x 500             | 0.20             |

Dimensions A x B [mm]:  X  --> **1.85**

Section area [m<sup>2</sup>]:       Substitute diameter [mm]:     **Speed: 1.78 [m/s]**

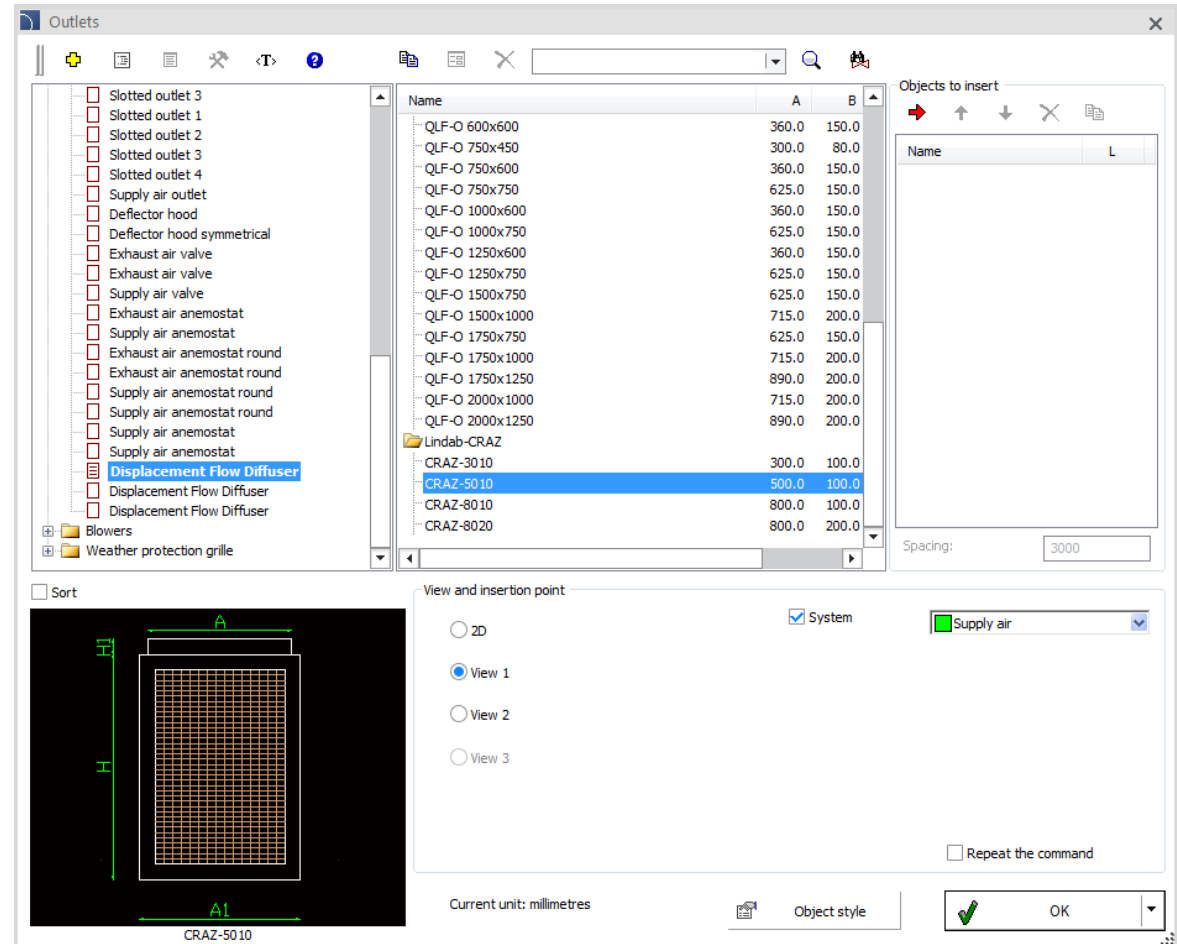
Calculate using dimensions in mm



## ✓ CADprofi HVAC & Piping – extension of ventilation system libraries

Additional objects have been added to the program's library, including:

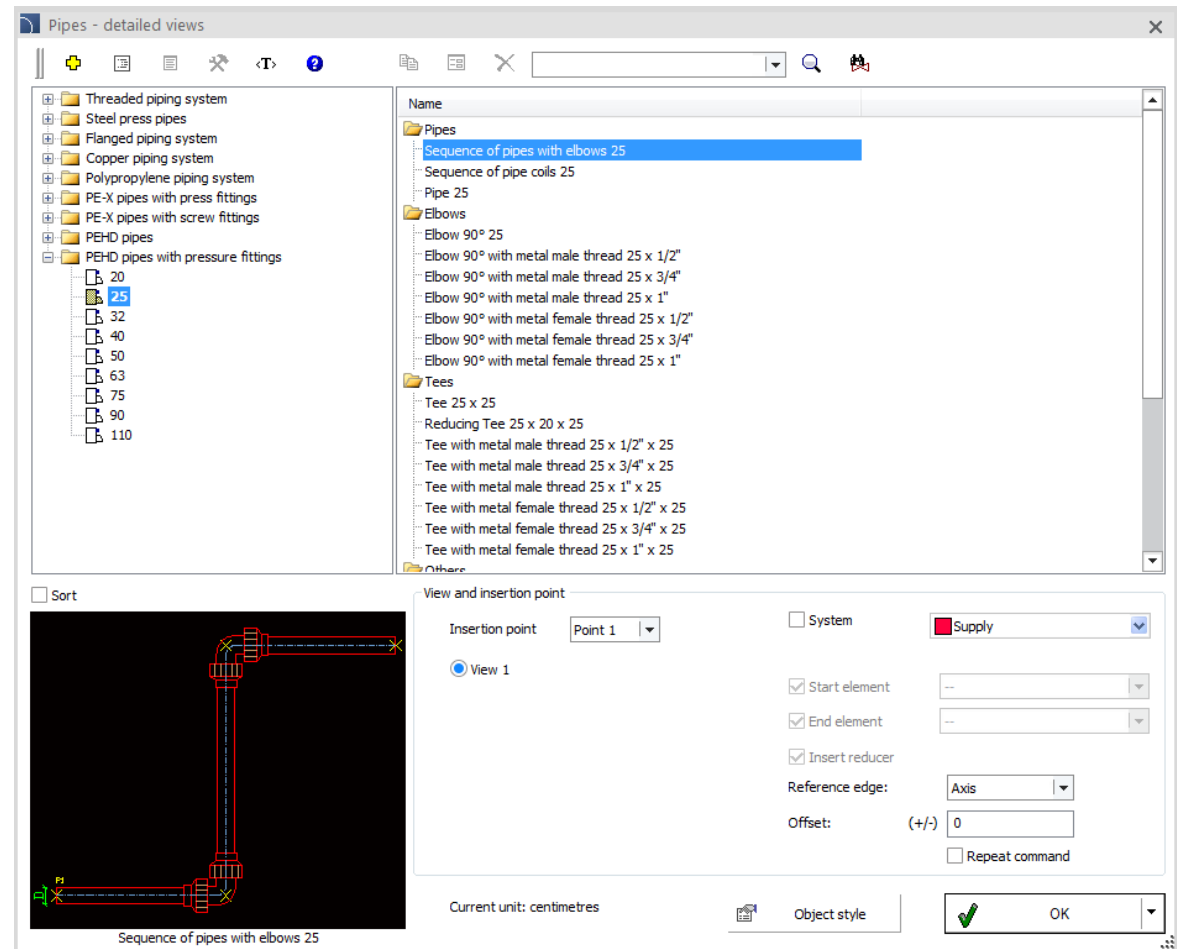
- roof air intake units (WDO-C; WDP-B; WDP-A; K; HN),
- wall air intakes (KWO-AL),
- expansion boxes (SR-HB40),
- displacement flow diffusers (CRAZ; CKA; CEA),
- roof bases (PD; PD-S; PD-ST),
- air grilles (YGC; WLS, WLS; AD; AE),
- air nozzles (DAD).
- Solar protection vessel
- Air separator
- Protective louvre
- Additional ground air grille
- Additional exhaust and supply air outlets
- Slotted outlets
- Wall and ceiling fans
- Venture Industries roof blowers.



## ✓ CADprofi HVAC & Piping – HDPE pipe system

The HDPE pipes system used for drinking water, liquid technological media, sewage and also used as protection pipes was added to the *Pipes – detailed views*.

The HDPE pipe system is available with welded connections and with pressure fittings.

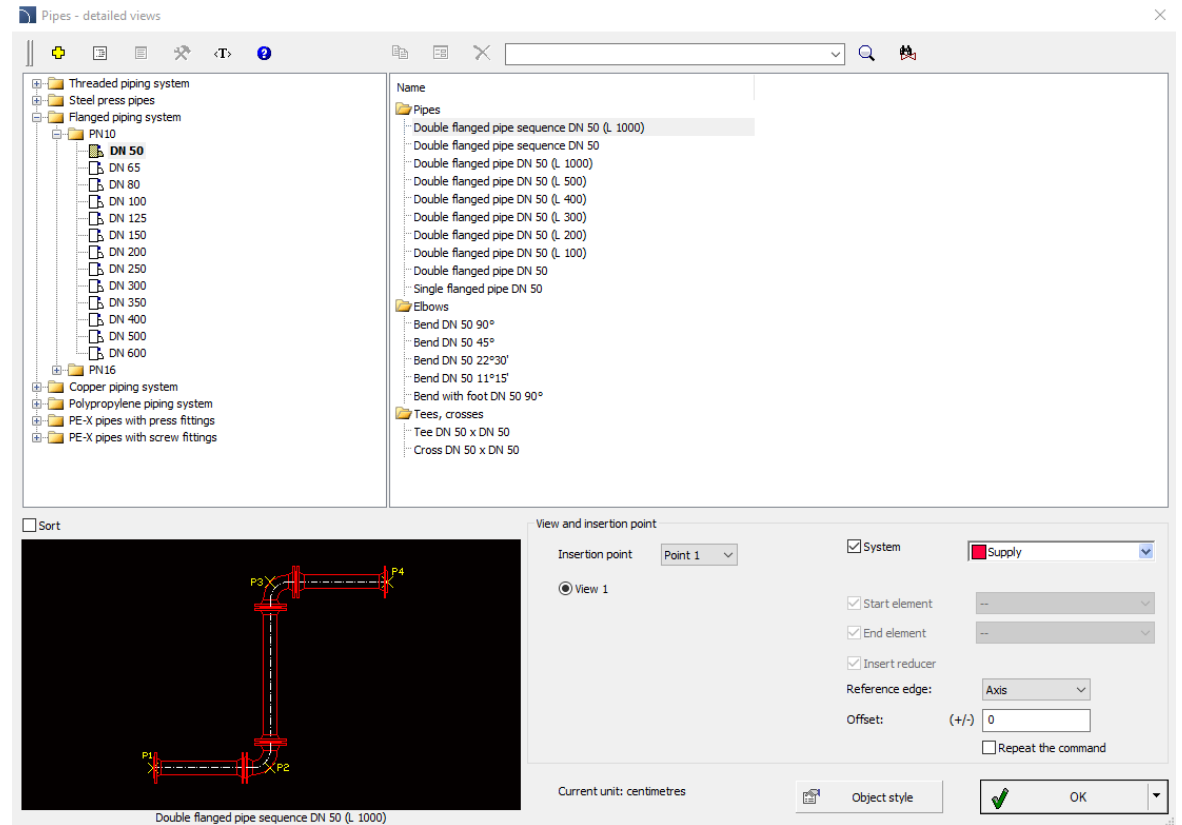




# CADprofi

## ✓ CADprofi HVAC & Piping – flanged piping system

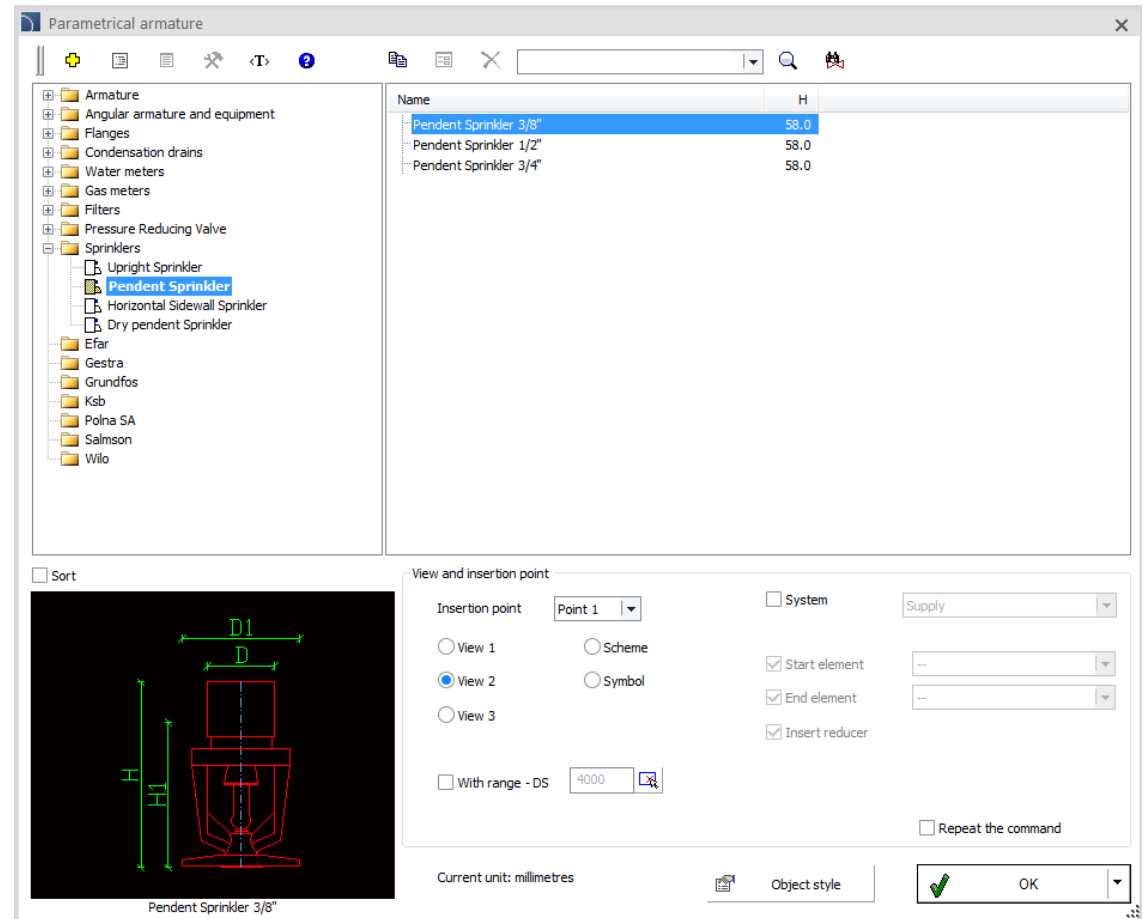
A flanged piping system has been added to the *Pipes – detailed view* command.



## ✓ CADprofi HVAC & Piping – extension of the armature library

To the library that contains armature views and other devices additional products have been introduced:

- water meter console,
- diaphragm/bellows meters,
- gas meter bars,
- gas pressure regulators,
- gas filters.
- upright, pendent, horizontal sidewall and dry pendent sprinklers,
- rectangular and round water meter chambers



## ✓ CADprofi HVAC & Piping – inserting fittings into pipelines

An ability to insert fittings into any pipe sequence in detailed views have been added to the program. Additionally, when inserting T-pieces or cross-pieces, it is possible to automatically connect to them other pipelines.



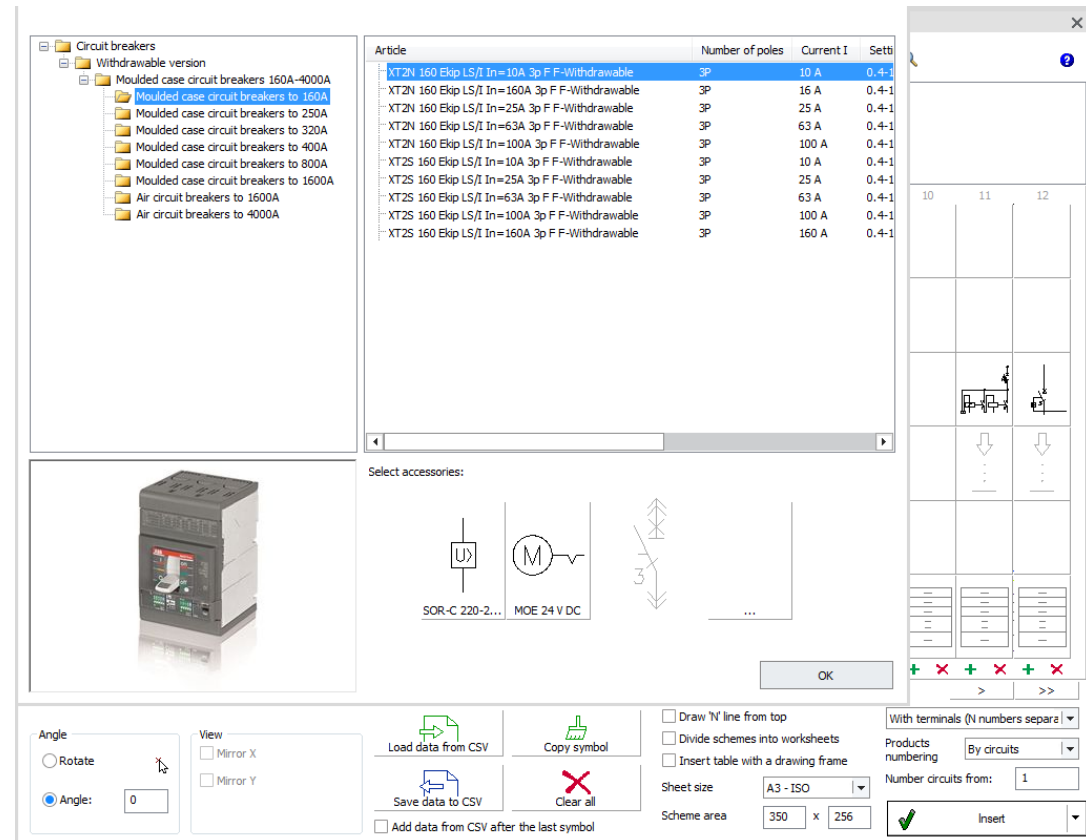
## ✓ Update of ABB library

The ABB product database has been updated and new product groups have been added:

- Compact/air circuit breakers (withdrawable version).
- F-ATI and F-ARI residual current devices.
- Fuse links (E 9F Gg, E 9F gPV, D0 ..., NH ...).

The power distribution schemes creator has been extended with additional functions that accelerate design work:

- N line guidance from the top.
- Drawing electric circuits with automatic insertion and numbering of terminals.
- Additional apparatus numbering options.
- Predefined templates of commonly used automation systems, ie control systems, measurement and fire protection shutdown.
- Function of selecting additional accessories, eg triggers, auxiliary contacts, drives of communication devices, fuse links, etc.



| Article  | Number of poles | Current I | Setti |
|--|-----------------|-----------|-------|
| XT2N 160 Ekip LS/I In=10A 3p F F-Withdrawable  | 3P              | 10 A      | 0.4-1 |
| XT2N 160 Ekip LS/I In=160A 3p F F-Withdrawable | 3P              | 16 A      | 0.4-1 |
| XT2N 160 Ekip LS/I In=25A 3p F F-Withdrawable  | 3P              | 25 A      | 0.4-1 |
| XT2N 160 Ekip LS/I In=63A 3p F F-Withdrawable  | 3P              | 63 A      | 0.4-1 |
| XT2N 160 Ekip LS/I In=100A 3p F F-Withdrawable | 3P              | 100 A     | 0.4-1 |
| XT2S 160 Ekip LS/I In=10A 3p F F-Withdrawable  | 3P              | 10 A      | 0.4-1 |
| XT2S 160 Ekip LS/I In=25A 3p F F-Withdrawable  | 3P              | 25 A      | 0.4-1 |
| XT2S 160 Ekip LS/I In=63A 3p F F-Withdrawable  | 3P              | 63 A      | 0.4-1 |
| XT2S 160 Ekip LS/I In=100A 3p F F-Withdrawable | 3P              | 100 A     | 0.4-1 |
| XT2S 160 Ekip LS/I In=160A 3p F F-Withdrawable | 3P              | 160 A     | 0.4-1 |

Select accessories:

SOR-C 220-2... MOE 24 V DC

Angle:  Rotate  Angle:

View:  Mirror X  Mirror Y

Load data from CSV Copy symbol Save data to CSV Clear all

Draw 'N' line from top Divide schemes into worksheets Insert table with a drawing frame

Sheet size: A3 - ISO Scheme area: 350 x 256

With terminals (N numbers separate) Products numbering: By circuits Number circuits from: 1

Insert

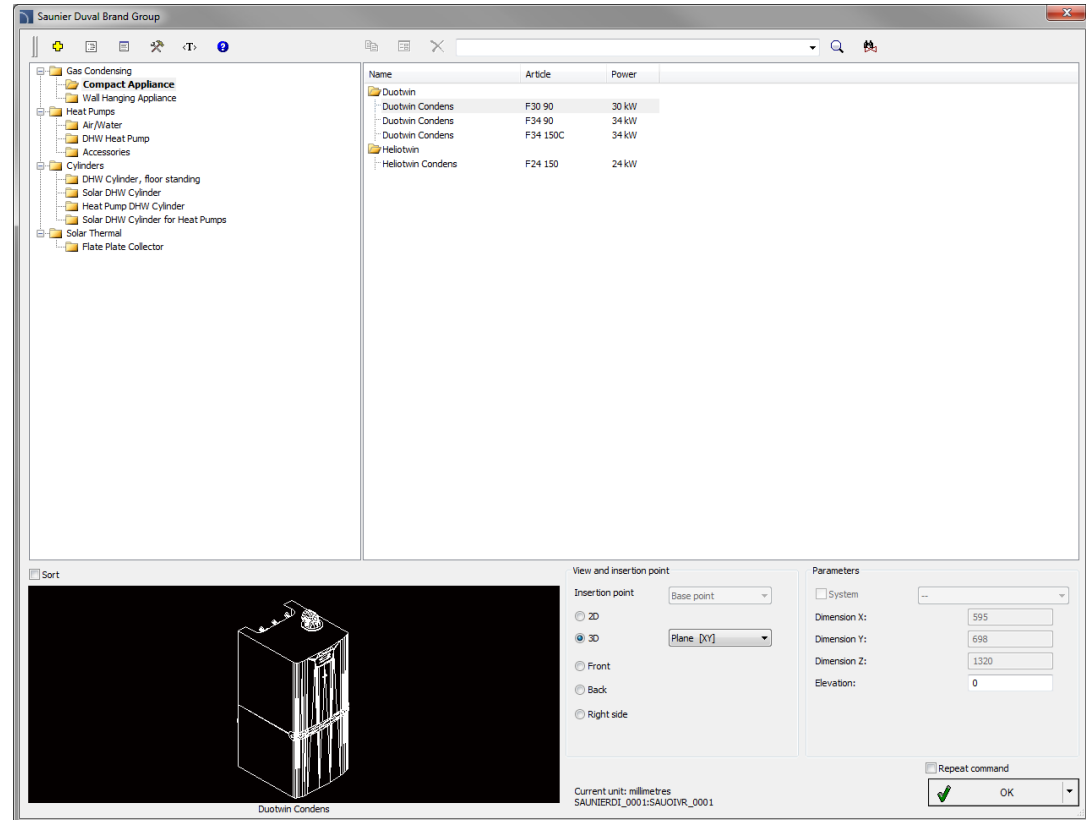


# CADprofi

## ✓ New Saunier Duval library

New library that is available in CADprofi program contains Saunier Duval products, including:

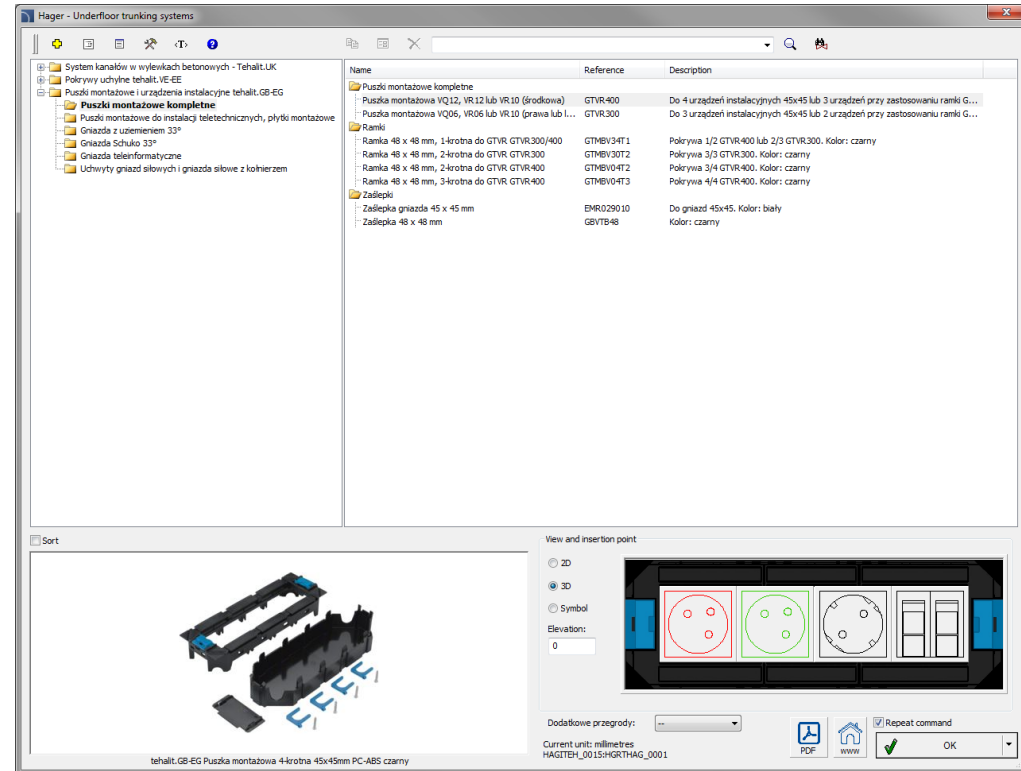
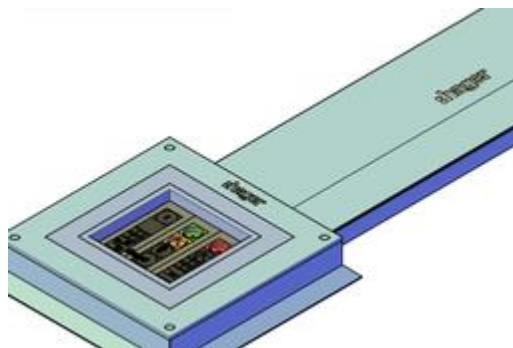
- Gas condensing (compact and wall hanging appliance).
- Heat pumps.
- Cylinders.
- Solar thermal.



## ✓ New library: designing hager underfloor trunking systems

New hager Tehalit library allows user to design installation systems in concrete floor screed in a simple and intuitive way. This library allows to easily draw floor ducts, quickly insert steel boxes, covers and installation accessories in 2D views, 3D models and schematic views.

Hager library is available in Polish language (with more languages coming soon) but thanks to our translation system user can easily change necessary translations and adapt the library to his own native language. [Watch translation video.](#)

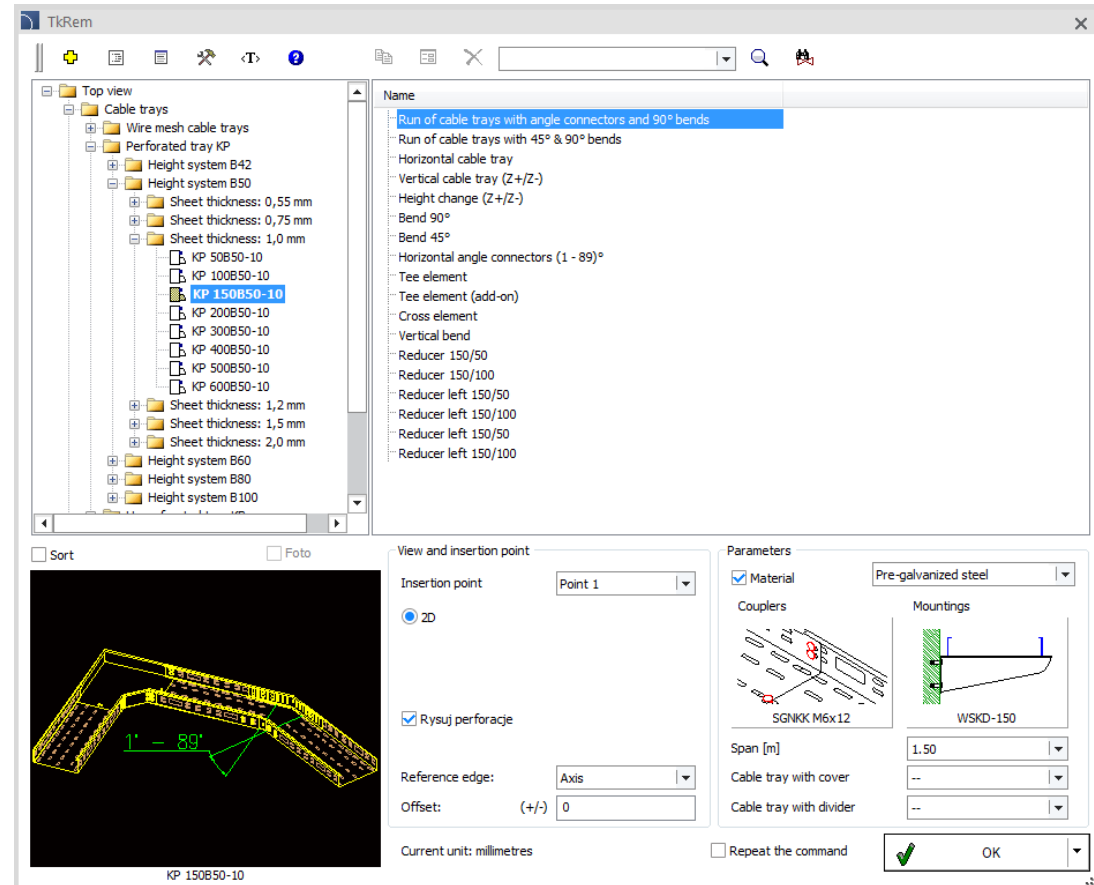




## ✓ New TKRem library

New library that is available in CADprofi program contains TKRem products, including:

- Cable trays (mesh, KP perforated, KB unperforated, heavy KC and KLC).
- Cable ladders (DUK, DKN).
- E90 system (KP cable trays, DUK cable ladders).
- Underfloor channels (B28, B38, B48 height system).

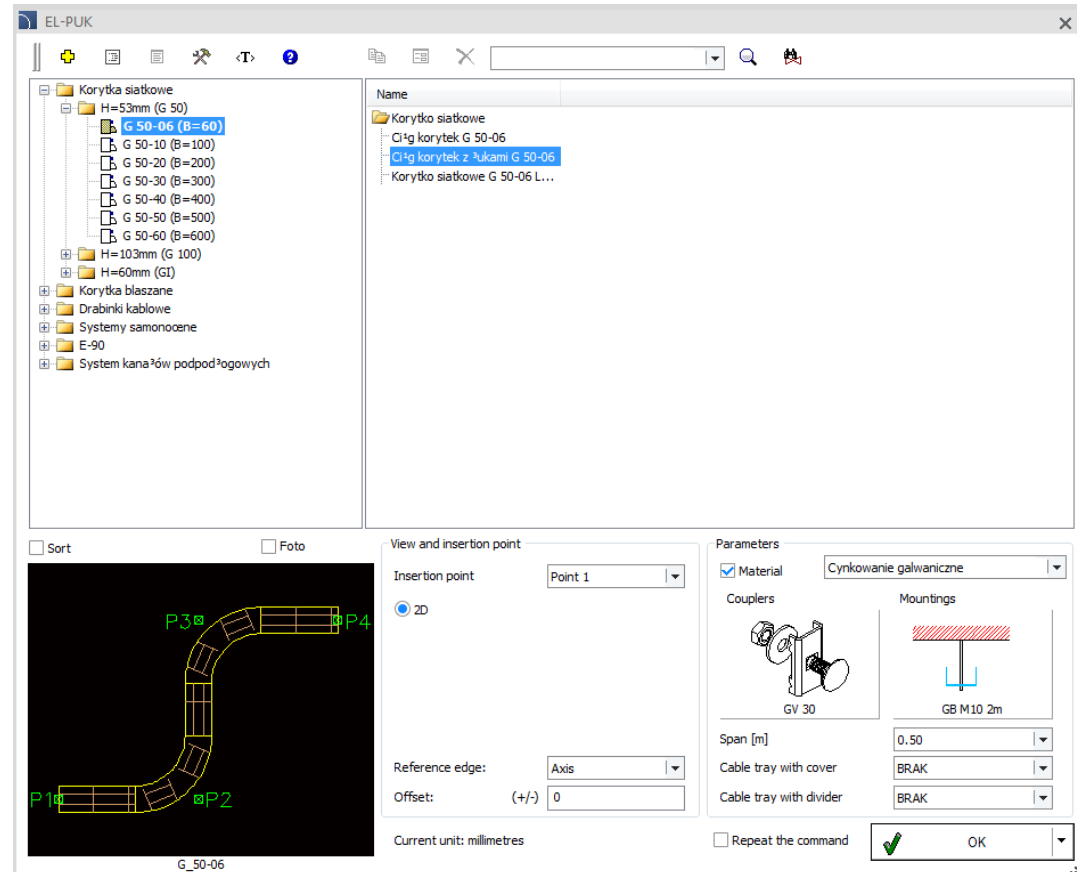


## ✓ New EL-PUK library

New library that is available in CADprofi program contains EL-PUK products, including:

- Mesh cable trays.
- Sheet metal trays (full, perforated).
- Cable ladders.
- Self-supporting systems.
- E-90 system.
- Underfloor channels.

Library is currently available in Polish language.





# CADprofi

✓ Update of manufacturers' libraries:





# CADprofi

## ✓ Adjustment to many base CAD programs

CADprofi 2019 has been adjusted to work with latest CAD programs, including: 4MCAD 19, ActCAD 2019, ArCADia 10.4 (64bit), ARES Commander 2018 SP2, AutoCAD 2019, BricsCAD V19, CADMate 2018, CMS IntelliCAD 8.4, GstarCAD 2019, progeCAD 2019, ZWCAD 2019.

The AutoCAD logo, consisting of the word 'AutoCAD' in a bold, red, sans-serif font with a registered trademark symbol.

The ZWCAD logo, featuring the letters 'ZWCAD' in a bold, blue, sans-serif font with a green leaf-like graphic above the 'W'.

The GstarCAD logo, with 'GstarCAD' in blue and yellow text, and the tagline 'An Alternative CAD System' in blue below it.

The BricsCAD logo, featuring a stylized blue 'B' shape above the word 'BRICSCAD' in a bold, black, sans-serif font.

The progeSOFT logo, featuring a blue globe with a yellow 'I' shape inside, above the text 'progeSOFT' in a blue, sans-serif font.

The IntelliCAD logo, featuring a purple diamond shape with a yellow 'I' shape inside, above the word 'IntelliCAD' in a bold, purple, sans-serif font.

The Gräbert ARES Commander logo, featuring a red, stylized flame-like graphic above the text 'Gräbert ARES® Commander' in a black, sans-serif font.