

MagiCAD RS

Beskrivelse af DEN lokaliseringen

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Lokalisering DEN-MCREV-2021_b

Denne lokalisering indeholder både EL, VVS og VENTILATION og bygger oven på de tidligere lokaliseringer, der ud over beskrivelsen i dette dokument, er beskrevet i dokumentet DEN-MCREV- 2021_a.pdf

Bortset fra filformatet er lokaliseringen til Revit 2021, Revit 2020 og Revit 2019 identisk med lokaliseringen til Revit 2018.

Lokalisering til MagiCAD på Revit, består ud over dette dokument af fire filer.

DEN-MCREV-2021_b_r<Revit version>.mrv (dataset)

DEN-MCREV-2021_b_r<Revit version>.rte (Revit template)

DEN-MCREV-2021_b_r<Revit version>.mcd (description fil)

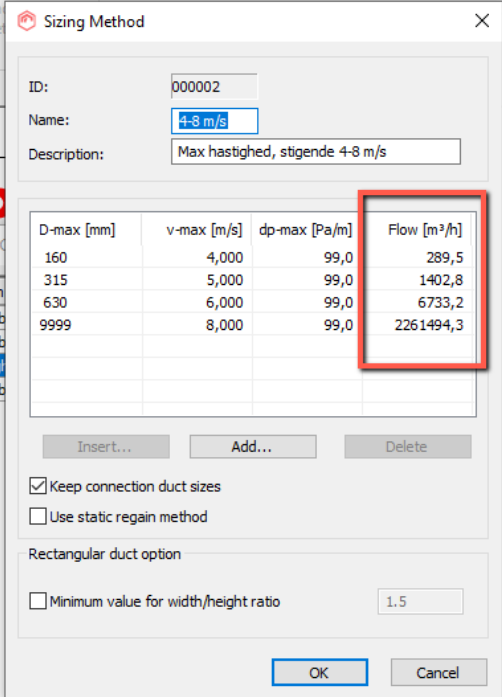
magiParameters .txt (shared parameters fil)

Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

Dataset

Ventilation

- Flow kan nu anvendes ved dimensionering. Angiv max flow per kanaldimension via Sizing Method



Sizing Method

ID: 000002

Name: 4-8 m/s

Description: Max hastighed, stigende 4-8 m/s

| D-max [mm] | v-max [m/s] | dp-max [Pa/m] | Flow [m³/h] |
|------------|-------------|---------------|-------------|
| 160 | 4,000 | 99,0 | 289,5 |
| 315 | 5,000 | 99,0 | 1402,8 |
| 630 | 6,000 | 99,0 | 6733,2 |
| 9999 | 8,000 | 99,0 | 2261494,3 |

Buttons: Insert..., Add..., Delete

Keep connection duct sizes

Use static regain method

Rectangular duct option

Minimum value for width/height ratio: 1.5

Buttons: OK, Cancel

- Kanalserierne Lindab SR og Lindab SR Standard. Påstik "TSTCU Bevelled" er udskiftet med "TSTCU Small Roundings". Kanalserierne er opdateret i Revit project template "DEN-MCREV-2021_b_r<Revit version>.rte

Piping

- Beregningsstandard kan nu defineres specifikt for hver enkelt rørserie.

Calculation settings for hydronic systems
By selecting the calculation standard and the pipe material the Zeta values for the pipe series will be defined

Calculation standard: **Default**
Material: **Metal**

| Size | Din | Dout | Valve size | Zone valve size |
|------|-------|-------|------------|-----------------|
| 10 | 12.4 | 17.1 | 10 | 10 |
| 15 | 16.0 | 21.3 | 15 | 15 |
| 20 | 21.6 | 26.9 | 20 | 20 |
| 25 | 27.2 | 33.7 | 25 | 25 |
| 32 | 37.2 | 42.4 | 32 | 32 |
| 40 | 41.8 | 48.3 | 40 | 40 |
| 50 | 53.0 | 60.3 | 50 | 50 |
| 65 | 68.8 | 76.1 | 65 | 65 |
| 80 | 80.8 | 88.9 | 80 | 80 |
| 100 | 105.3 | 114.3 | 100 | 100 |
| 125 | 130.0 | 139.7 | 125 | 125 |
| 150 | 155.4 | 165.1 | 150 | 150 |

- Flow kan nu anvendes ved dimensionering. Angiv max flow per rørdimension via Sizing Method

ID: 000003
Name: 90-30 Pa/m
Description: Max. tryktab 90 - 30 Pa/m, faldende

| D-max [mm] | v-max [m/s] | dp-max [Pa...] | Flow [l/s] |
|------------|-------------|----------------|------------|
| 15 | 99,000 | 90,0 | 17,5 |
| 20 | 99,000 | 80,0 | 31,1 |
| 25 | 99,000 | 70,0 | 48,6 |
| 32 | 99,000 | 65,0 | 79,6 |
| 40 | 99,000 | 60,0 | 124,4 |
| 65 | 99,000 | 50,0 | 328,5 |
| 80 | 99,000 | 45,0 | 497,6 |
| 100 | 99,000 | 45,0 | 777,5 |

Keep connection pipe sizes

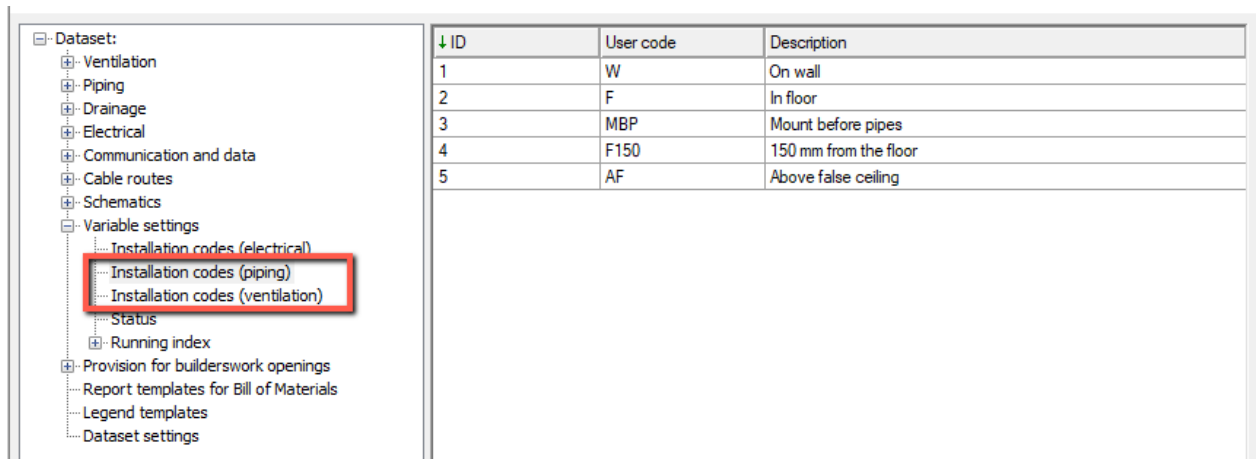
- Bedre understøttelse for pumper med variabel hastighed og multi-hastighed. Tilføjet to eksempel-pumper til datasettet.

Schematics

- Opret præ-definerede symbol-samlinger ("Symbol assemblies") og gem dem i datasettet. Samlingen kan bestå af både symboler og Revit detail items som linjer, cirkler osv (splines understøttes ikke). En Symbol Assembly oprettes og gemmes i datasettet ved at placere symboler i et view, markere dem og vælge Create Assembly fra MagiCAD Schematics fanebladet. En Symbol Assembly kunne f.eks. være en blandesløjfe.

Variable settings

- Installation codes kan nu, som tidligere kun muligt for el, tilføjes både piping og ventilation, og anvendes på rør/kanaler, fittings, armaturer, elementer osv.



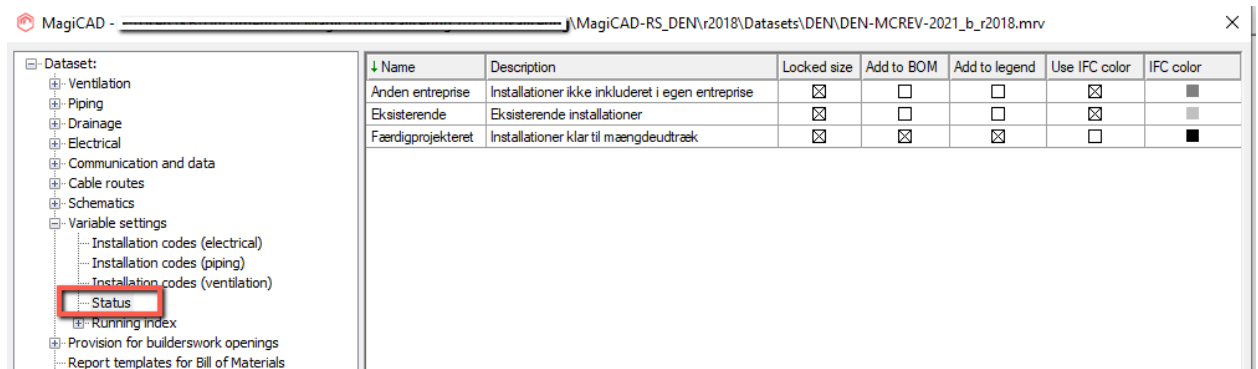
| ID | User code | Description |
|----|-----------|-----------------------|
| 1 | W | On wall |
| 2 | F | In floor |
| 3 | MBP | Mount before pipes |
| 4 | F150 | 150 mm from the floor |
| 5 | AF | Above false ceiling |

- Status kan anvendes til, på instance-niveau, at angive f.eks. om et element er eksisterende, foreløbig, uafklaret, egen eller anden entreprise osv.

For hver Status angives Name, Description, Locked Size (yes/no), Add to BOM (yes/no), Add to legend (yes/no), Use IFC color (yes/no), samt IFC color.

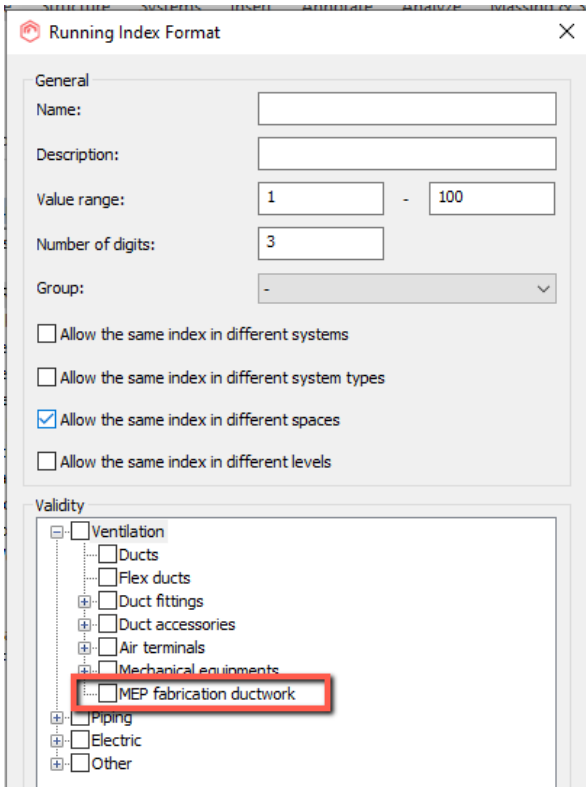
Status vælges på objektet via instance parameteret "MC Object Status".

Nedenstående eksempler er inkluderet i dataset og template i den danske lokalisering. Status overføres fra dataset til projekt via Design Data.



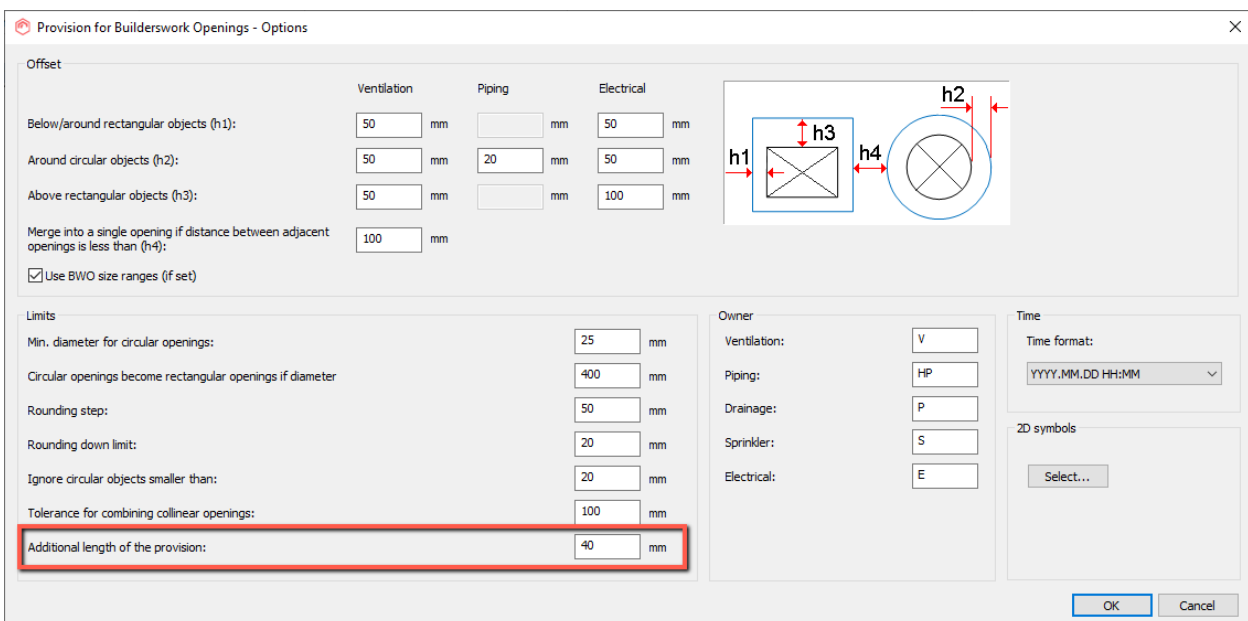
| Name | Description | Locked size | Add to BOM | Add to legend | Use IFC color | IFC color |
|-------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------|
| Anden entreprise | Installationer ikke inkluderet i egen entreprise | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | ■ |
| Eksisterende | Eksisterende installationer | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | ■ |
| Færdigprojekteret | Installationer klar til mængdeudtræk | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ■ |

- Running index format understøtter nu MEP fabrication parts



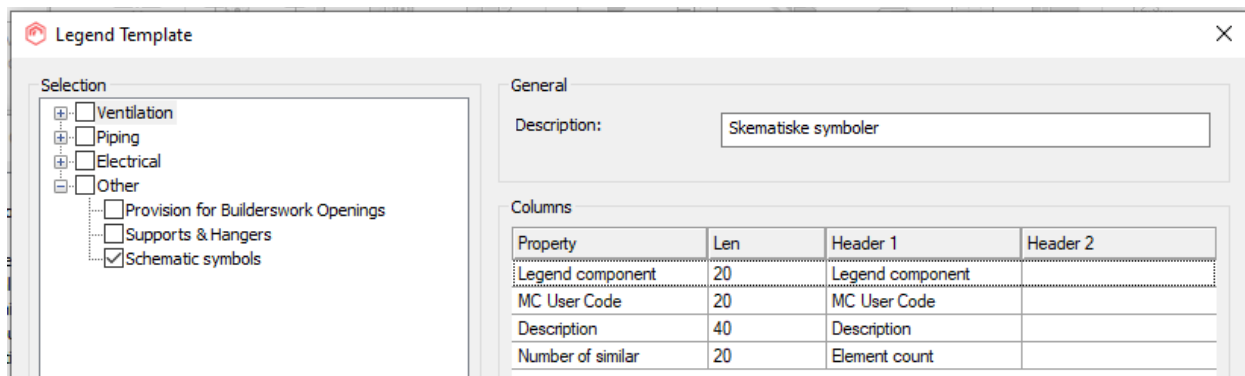
Provision for builderswork openings

- Mulighed for at styre hvor stor en del af provision-elementet, der skal stikke ud fra væg- eller dækoverflader. Afstanden styres vha. parameteret "Additional length of the provision"



Legend template for Schematic Symbols

- Legend templates omfatter nu også Schematic Symbols. Nedenstående eksempel er tilføjet datasettet i den danske lokalisering



Template

Ændringer i shared parameters fil

- MagiCAD 2021 UR-1 indeholder følgende ændringer i magiParameters.txt:

| GUID | Parameter name | Group |
|--------------------------------------|----------------------------------|-------|
| 30507a38-59bf-4e66-9ce0-718d046d2f1e | MC Copy Wire Type from Circuit | 5 |
| f0cb2d83-07c9-4de6-afbb-98b9abab529e | MC Design Sensible Cooling Load | 1 |
| 402f4210-cb8a-4bb7-860e-1eabd99e5fa2 | MC Design Supply Air Temperature | 1 |
| 4c8bf974-566d-4b33-8718-64d84ef35ea9 | MC Design Temperature Cooling | 1 |
| bae3dce1-3398-437d-b5a9-1dfdeff446ae | MC Design Temperature Heating | 1 |
| 8ef7ce10-01a3-46b4-9fe0-53a3023598e7 | MC Fire Rating | 1 |
| fc9fd78c-9cc3-418e-925f-9d2754f7b017 | MC Not in Use | 5 |
| 1c5ed3cc-b988-4f4e-b64b-e7c5a4bfe18e | MC Object Status | 1 |
| 6509b509-cc20-4bb2-8526-c82d9f39a03c | MC Part Number | 1 |
| c8e3fe63-3809-40d3-b395-1ffed49959d1 | MC Piping Diversified Flow | 1 |
| 8f1b2b2a-480b-4b7c-8c80-f1b024900108 | MC Provision Type | 1 |
| 874a24dc-6b3f-46d8-a349-38e70cd70a60 | MC Provision Host | 1 |

Ventilation

- Kanalserierne "Lindab SR" og "Lindab SR Standard" er opdateret som beskrevet under afsnittet "Dataset"
- Parameteret "MC Ventilation LpA 10 sab" er slettet

Heating

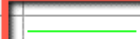



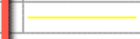

- View template "QA___3_P__MC PIPING VELOCITY" er omdøbt til "QA___3_P__HEATING MC VELOCITY"
- View template "QA___P_P__MC PIPING VELOCITY" er omdøbt til "QA___P_P__HEATING MC VELOCITY". Filtre er opdateret

Visibility/Graphic Overrides for QA___P_P__HEATING MC VELOCITY

| Model Categories | | Annotation Categories | | Analytical Model Categories | | Imported Categories | | Filters | |
|---|--|-----------------------|--|-----------------------------|--------------------------|---------------------|--|---------|--|
| Name | | | | | Visibility | | | | |
| Sections/Elev/Cal (VIEW-USE not 4_QUALITY ASSURANCE) | | | | | <input type="checkbox"/> | | | | |
| Sections/Elev/Cal (SUB-DICIPLINE not P__HEATING VELOCITY) | | | | | <input type="checkbox"/> | | | | |
| VP__Mechanical Equipment (Radiatorer) | | | | | <input type="checkbox"/> | | | | |
| P__SV - AFLØB, SPILDEVAND (System Abbreviation) | | | | | <input type="checkbox"/> | | | | |
| P__KF - KØLING, FREM (System Abbreviation) | | | | | <input type="checkbox"/> | | | | |
| P__KR - KØLING, RETUR (System Abbreviation) | | | | | <input type="checkbox"/> | | | | |
| P__SPR - SPRINKLERANLÆG, RØR (System Abbreviation) | | | | | <input type="checkbox"/> | | | | |
| P__TV - AFLØB, TAG-(REGN)VAND - (System Abbreviation) | | | | | <input type="checkbox"/> | | | | |
| P__BC - BRUGSVAND (#1), CIRKULATION (System Abbreviation) | | | | | <input type="checkbox"/> | | | | |
| P__BK - BRUGSVAND (#1), KOLDT (System Abbreviation) | | | | | <input type="checkbox"/> | | | | |
| P__BV - BRUGSVAND (#1), VARMT (System Abbreviation) | | | | | <input type="checkbox"/> | | | | |
| P__DV - DRÆN(VAND) (System Abbreviation) | | | | | <input type="checkbox"/> | | | | |

- View template "QA___3_P__MC PIPING dp/m" er omdøbt til "QA___3_P__MC HEATING dp/m". Filtre er opdateret

Visibility/Graphic Overrides for QA___3_P__MC HEATING dp/m

| Model Categories | | Annotation Categories | | Analytical Model Categories | | Imported Categories | | Filters | |
|--|-------------------------------------|---|--|-----------------------------|--|---------------------|--|---------|--|
| Name | Visibility | Projection/Surface | | | | | | | |
| | | Lines | Patterns | Transp | | | | | |
| VP__Mechanical Equipment (Radiatorer) | <input checked="" type="checkbox"/> | | | | | | | | |
| VP__Mechanical Equipment (SystemClassification Air) | <input type="checkbox"/> | | | | | | | | |
| VP__Mechanical Equipment (MC Void Provision) | <input type="checkbox"/> | | | | | | | | |
| P__KF - KØLING, FREM (System Abbreviation) | <input type="checkbox"/> | | | | | | | | |
| P__KR - KØLING, RETUR (System Abbreviation) | <input type="checkbox"/> | | | | | | | | |
| P__SPR - SPRINKLERANLÆG, RØR (System Abbreviation) | <input type="checkbox"/> | | | | | | | | |
| P__BC - BRUGSVAND (#1), CIRKULATION (System Abbr... | <input type="checkbox"/> | | | | | | | | |
| P__BK - BRUGSVAND (#1), KOLDT (System Abbreviation) | <input type="checkbox"/> | | | | | | | | |
| P__BV - BRUGSVAND (#1), VARMT (System Abbreviation) | <input type="checkbox"/> | | | | | | | | |
| P__Sanitary (System Classification) | <input type="checkbox"/> | | | | | | | | |
| P__Pipework MC Piping dp/m mindre end 0,050 kPa | <input checked="" type="checkbox"/> |  |  | | | | | | |
| P__Pipework MC Piping dp/m større end 0,100 kPa | <input checked="" type="checkbox"/> |  |  | | | | | | |
| P__Pipework MC Piping dp/m større end 0,050 kPa og ... | <input checked="" type="checkbox"/> |  |  | | | | | | |

- View template "QA___P_P_MC PIPING dp/m" er omdøbt til "QA___P_P_MC HEATING dp/m". Filtre er opdateret

Visibility/Graphic Overrides for QA___P_P_MC HEATING dp/m

Model Categories Annotation Categories Analytical Model Categories Imported Categories Filters

| Name | Visibility | Projection/Surface | | |
|---|-------------------------------------|--------------------|----------|---|
| | | Lines | Patterns | T |
| Sections/Elev/Cal (VIEW-USE not 4_QUALITY ASSURAN... | <input type="checkbox"/> | | | |
| Sections/Elev/Cal (SUB-DICIPLINE not P___HEATING FRI... | <input type="checkbox"/> | | | |
| P___SV - AFLØB, SPILDEVAND (System Abbreviation) | <input type="checkbox"/> | | | |
| P___TV - AFLØB, TAG-(REGN)VAND - (System Abbreviat... | <input type="checkbox"/> | | | |
| P___BC - BRUGSVAND (#1), CIRKULATION (System Abbr... | <input type="checkbox"/> | | | |
| P___BK - BRUGSVAND (#1), KOLDT (System Abbreviation) | <input type="checkbox"/> | | | |
| P___BV - BRUGSVAND (#1), VARMT (System Abbreviatio... | <input type="checkbox"/> | | | |
| P___KF - KØLING, FREM (System Abbreviation) | <input type="checkbox"/> | | | |
| P___KR - KØLING, RETUR (System Abbreviation) | <input type="checkbox"/> | | | |
| P___SPR - SPRINKLERANLÆG, RØR (System Abbreviation) | <input type="checkbox"/> | | | |
| P___Sanitary (System Classification) | <input type="checkbox"/> | | | |
| VP_Mechanical Equipment (Radiatorer) | <input checked="" type="checkbox"/> | | | |

Electrical

- Wire type management. Via kolonnen "In use" er det nu muligt at definere hvilke ledningstyper der skal være tilgængelige ved tegning af ledninger ("Wires"). I template for den danske lokalisering, er alle typer valgt på forhånd.

Wire Type Management

General

Type name

| In use | Name | Conductor Materials | Conductor Arrangements | Weight [kg/m] | Diameter / Width [mm] | Height [mm] (if needed) | Number of phases | Number of neutrals | Number of PEs |
|-------------------------------------|------------|--------------------------|-------------------------------------|---------------|-----------------------|-------------------------|------------------|--------------------|---------------|
| <input checked="" type="checkbox"/> | THHW_Cu | Ph: Copper PE: Copper | Live: Multi-core PE: PE Included | 0 | 0 | 0 | 0 | 0 | 0 |
| <input checked="" type="checkbox"/> | XHHW_Cu | Ph: Copper PE: Copper | Live: Multi-core PE: PE Included | 0 | 0 | 0 | 0 | 0 | 0 |
| <input checked="" type="checkbox"/> | THHW_AI | Ph: Copper PE: Copper | Live: Multi-core PE: PE Included | 0 | 0 | 0 | 0 | 0 | 0 |
| <input checked="" type="checkbox"/> | XHHW_AI | Ph: Copper PE: Copper | Live: Multi-core PE: PE Included | 0 | 0 | 0 | 0 | 0 | 0 |
| <input checked="" type="checkbox"/> | MMJ 3x1,5S | Ph: Copper PE: Copper | Live: Multi-core PE: PE Included | 0,12 | 8,80 | 8,80 | 1 | 1 | 1 |
| <input checked="" type="checkbox"/> | MMJ 5x1,5S | Ph: Copper PE: Copper | Live: Multi-core PE: PE Included | 0,18 | 11,00 | 11,00 | 3 | 1 | 1 |

Show calculation columns

Open electrical settings... OK Cancel

Schematic

- Ny view template "QA____3_P__HEATING LINKED IN SCHEMATIC"

Ny view template "QA____D_VP__LINKED IN SCHEMATIC"

Lokalisering DEN-MCREV-2021_a

Denne lokalisering indeholder både EL, VVS og VENTILATION og bygger oven på de tidligere lokaliseringer, der ud over beskrivelsen i dette dokument, er beskrevet i dokumenterne DEN-MCREV-E-2019_c.pdf og DEN-MCREV-MP-2019_c.pdf

Bortset fra filformatet er lokaliseringen til Revit 2021, Revit 2020 og Revit 2019 identisk med lokaliseringen til Revit 2018.

MP lokalisering til MagiCAD på Revit 2018, består ud over dette dokument af fire filer.

- DEN-MCREV-2021_a_r2018.mrv (dataset)**
- DEN-MCREV-2021_a_r2018.rte (Revit template)**
- DEN-MCREV-2021_car2018.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2019, består ud over dette dokument af fire filer.

- DEN-MCREV-2021_a_r2019.mrv (dataset)**
- DEN-MCREV-2021_a_r2019.rte (Revit template)**
- DEN-MCREV-2021_a_r2019.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2020, består ud over dette dokument af fire filer.

- DEN-MCREV-2021_a_r2020.mrv (dataset)**
- DEN-MCREV-2021_a_r2020.rte (Revit template)**
- DEN-MCREV-2021_a_r2020.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2021, består ud over dette dokument af fire filer.

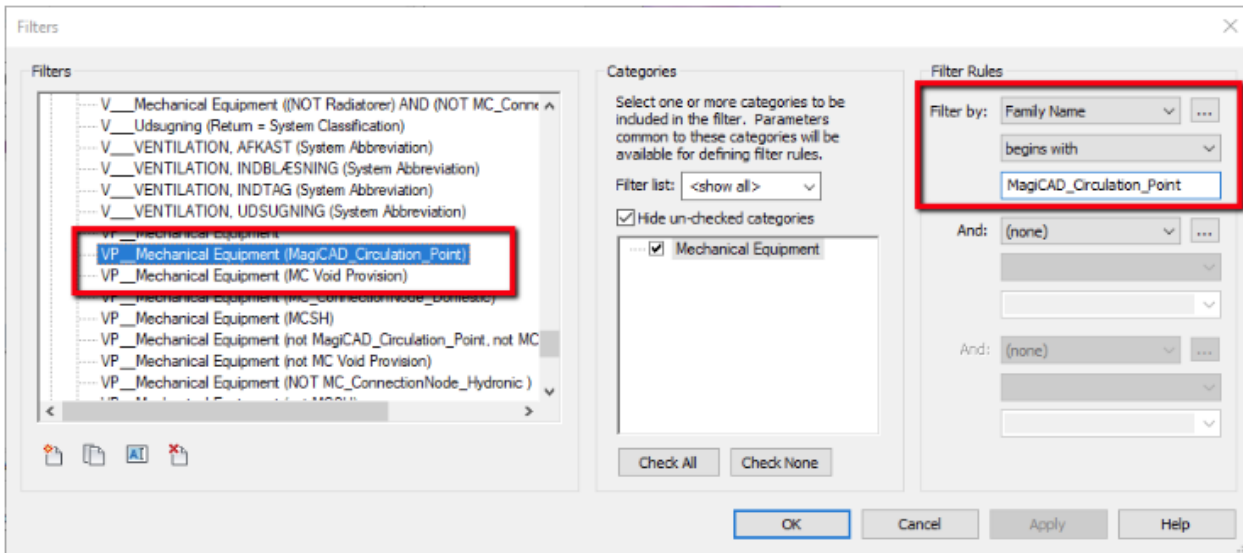
- DEN-MCREV-2021_a_r2021.mrv (dataset)**
- DEN-MCREV-2021_a_r2021.rte (Revit template)**
- DEN-MCREV-2021_a_r2021.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

Template













View templates, Filtre:

- Nedenstående filter oprettet og tilføjet view Heating viewtemplates

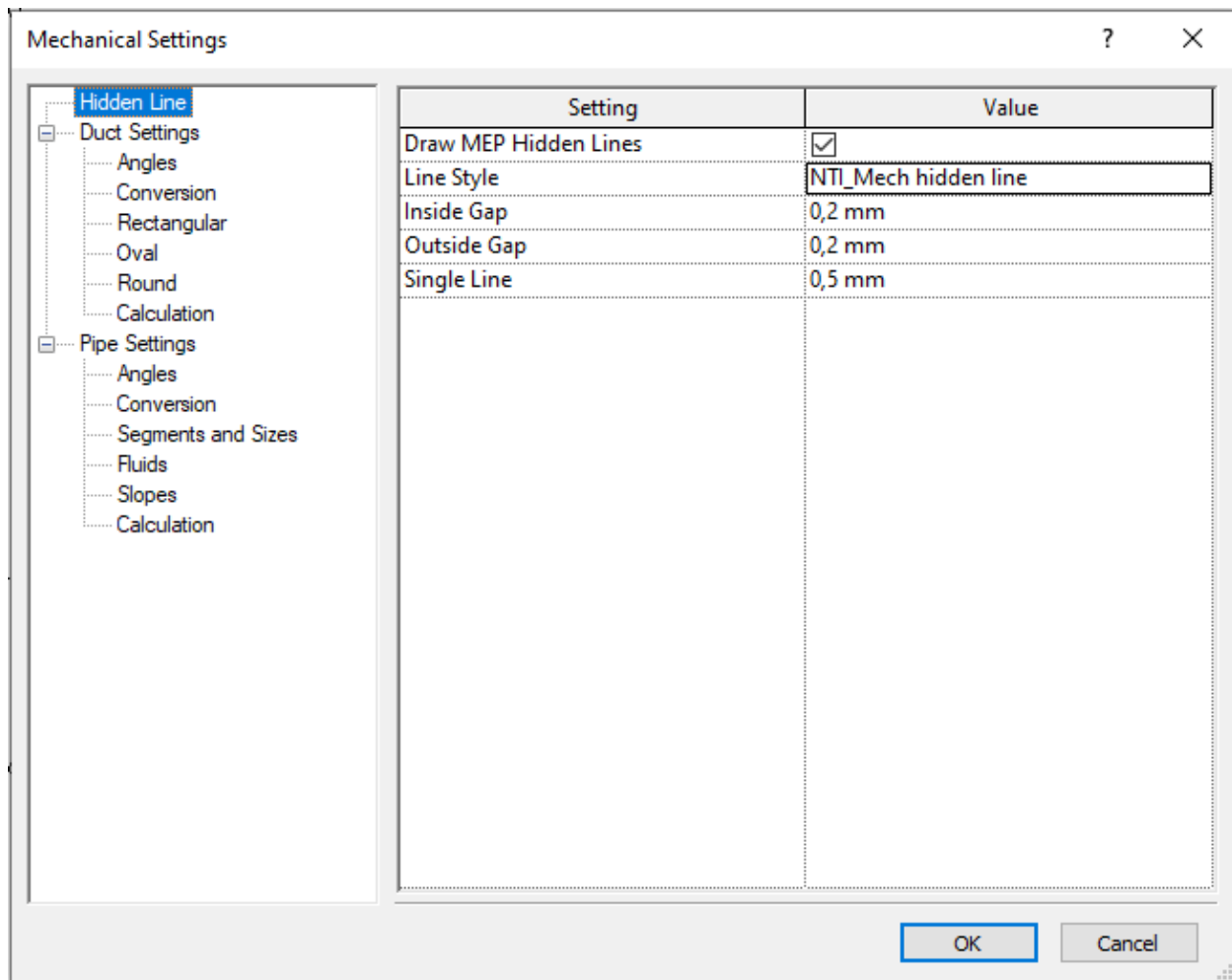


- View template WORK_C_C__CLASH har fået tilknyttet nedenstående filtre.

Visibility/Graphic Overrides for WORK_P_C__CLASH

| Name | Visibility | Projection/Surface | | |
|---|-------------------------------------|---|--|--------------|
| | | Lines | Patterns | Transparency |
| Sections/Elev/Cal (VIEW-USE not 1_WORK) | <input type="checkbox"/> | | | |
| Sections/Elev/Cal (SUB-DISCIPLINE not C__CLASH) | <input type="checkbox"/> | | | |
| E__KABELBAKKE | <input checked="" type="checkbox"/> |  |  | |
| E__GITTERBAKKE | <input checked="" type="checkbox"/> |  | | |
| E__ALMENFØRINGSVEJ | <input checked="" type="checkbox"/> |  | | |
| E__KABELSTIGE | <input checked="" type="checkbox"/> |  | | |
| E__LADDER | <input checked="" type="checkbox"/> |  | | |
| E__RØR_I_TERRÆN | <input checked="" type="checkbox"/> |  | | |
| E__RØR_I_BYGNING | <input checked="" type="checkbox"/> |  | | |
| E__BELYSNINGSANLÆG | <input checked="" type="checkbox"/> |  | | |
| E__LAVSPÆNDING | <input checked="" type="checkbox"/> |  | | |
| VP__Insulation | <input checked="" type="checkbox"/> |  | | 50% |
| VP__Mechanical Equipment (Radiatorer) | <input checked="" type="checkbox"/> | |  | |
| VP__Mechanical Equipment (MCSH) | <input checked="" type="checkbox"/> | | | |

- Mech Hidden line er blevet ændret så inside og outside gap er 0,2 mm, derudover er der blevet tilknyttet en ny Line style NTI_Mech hidden line.



Insulation i view templates.

- Alle 3D viewtemplates er indstillet til at vise insulation på 80% transparency og halftones i V/G, er gældende for både duct og pipes
- På Alle QA Viewtemplates er overriden fjernet så isoleringen vises.
- På alle plan og section viewtemplates er pipe insulation halftonet i et filter.

Kanalserie.

Lindab TCU er udskiftet fra TCU beveled til TCU Small roundings.

Generelt:

- Template purget og rensset.
- Duct Series opdateret:
 - Fleksible Kanaler
 - Lindab Rekt
 - Lindab SR
 - Lindab SR Standard

Lokalisering DEN-MCREV-2020_c

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- DEN-MCREV-2020_c_r2018.rte (Revit template)**
- DEN-MCREV-2020_c_r2018.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2019, består ud over dette dokument af fire filer.

- DEN-MCREV-2020_c_r2019.mrv (dataset)**
- DEN-MCREV-2020_c_r2019.rte (Revit template)**
- DEN-MCREV-2020_c_r2019.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2020, består ud over dette dokument af fire filer.

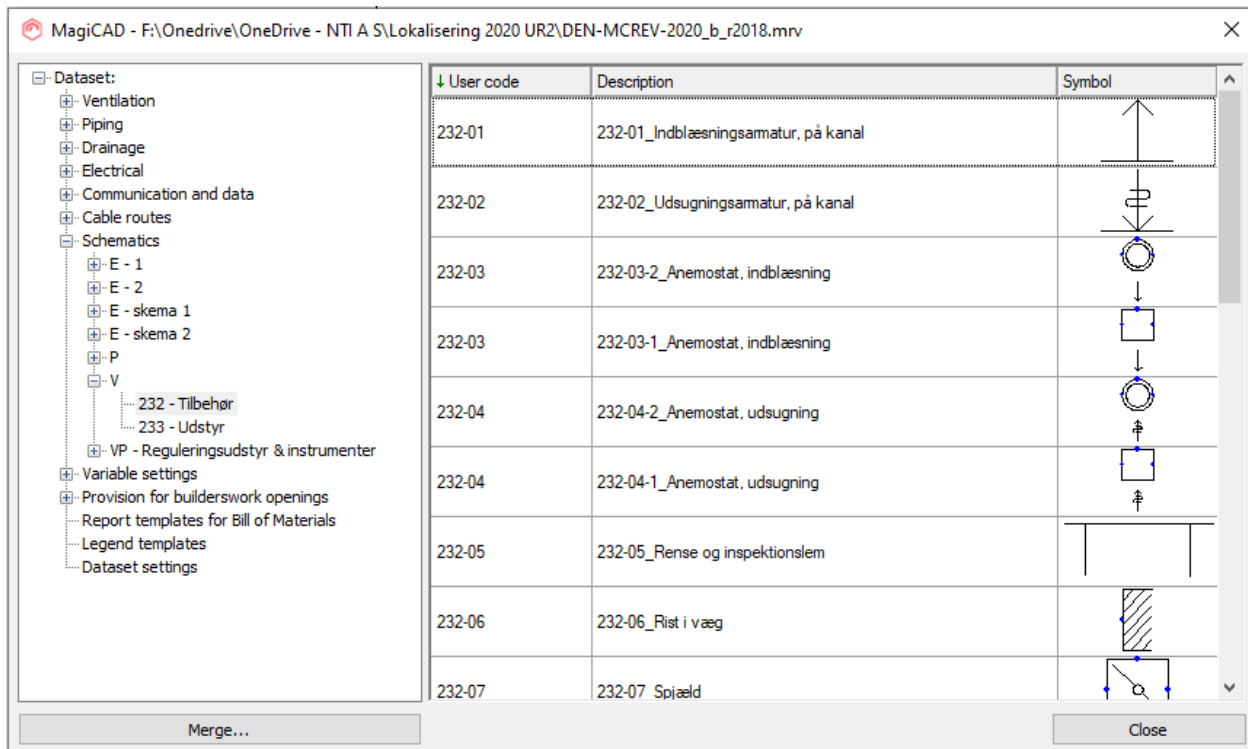
- DEN-MCREV-2020_c_r2020.mrv (dataset)**
- DEN-MCREV-2020_c_r2020.rte (Revit template)**
- DEN-MCREV-2020_c_r2020.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

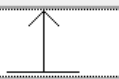
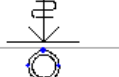
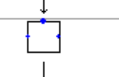
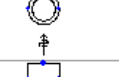
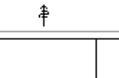
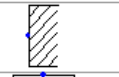
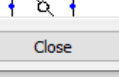


Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

Dataset

Schematics

- Tilføjet symboler til dataet filen, til brug med MC Schematics.



| User code | Description | Symbol |
|-----------|-------------------------------------|---|
| 232-01 | 232-01_Indblæsningsamatur, på kanal |  |
| 232-02 | 232-02_Udsugningsamatur, på kanal |  |
| 232-03 | 232-03-2_Anemostat, indblæsning |  |
| 232-03 | 232-03-1_Anemostat, indblæsning |  |
| 232-04 | 232-04-2_Anemostat, udsugning |  |
| 232-04 | 232-04-1_Anemostat, udsugning |  |
| 232-05 | 232-05_Rense og inspektionslem |  |
| 232-06 | 232-06_Rist i væg |  |
| 232-07 | 232-07_Spøjld |  |

Products

- Ændret navngivning på produkter så den korrekte benævnelse er der, fra Pa til kPa – devices and components

| User cod | Description | Product | Manufacturer | Preview | HW l/s | CW l/s | DN |
|----------|-------------------------|--------------------------------|--------------|---------|--------|--------|----|
| BRU 01 | bruser blandingsbatte | BRU_DN15_300kPa | | | 0.15 | 0.15 | 15 |
| BRU 02 | Brusearmatur med ter | Hansgrohe Ecostat S thermostat | Hansgrohe | | 0.15 | 0.15 | 15 |
| BSV 01 | Slangevinde med 25 | BP2 2530 -- 0.67l/sek | Svebab | | 0.00 | 0.67 | 25 |
| BSV 02 | Slangevinde med 25 | BP2 2530 -- 0.33l/sek | Svebab | | 0.00 | 0.33 | 25 |
| HV 01 | håndvask blandingsb | HV_DN15_160kPa | | | 0.10 | 0.10 | 15 |
| HV 02 | Blandingsbatteri til hå | Hansgrohe 31711000 | Hansgrohe | | 0.10 | 0.10 | 10 |
| KV 01 | køkkenvask blandin | KV_DN15_200kPa | | | 0.20 | 0.20 | 15 |
| KV 02 | Blandingsbatteri til kø | Hansgrohe 14875000 | Hansgrohe | | 0.20 | 0.20 | 10 |

- Tilføjet ESNU S og ESNU E i hhv. Supply air device og extract air device. Vær opmærksom på at tryktabs data ikke er verificeret.

| | | | | |
|--|---------------------|---------|--------|--|
| | Perforeret diffusor | PKA MBB | Lindab | |
| | Perforeret diffusor | PCA MBB | Lindab | |
| | Exhaust valve | KSU | Lindab | |
| | Endebund med net | ESNU E | | |

Template


View templates, Filtre:

- Nye Molio farver for ventilation er ændret i template







Tabel for præsentationsform - Ventilation

| Forkortelse | | Farve (RGB) |
|--------------------|--|-------------|
| Ventilation | | |
| | Ventilation, disponering | 000-255-000 |
| INDT | Ventilation, udeluft (indtag) | 141-189-000 |
| AFK | Ventilation, afkastluft (afkast) | 000-129-064 |
| VG(F/R) | Ventilation, omluft (varmegenvinding (Frem/Retur)) | 000-255-000 |
| VI | Ventilation, tilluft (indblæsning) | 255-000-000 |
| VU | Ventilation, fraluft (udsugning) | 000-000-255 |
| RVE | Ragventilation | 255-126-000 |

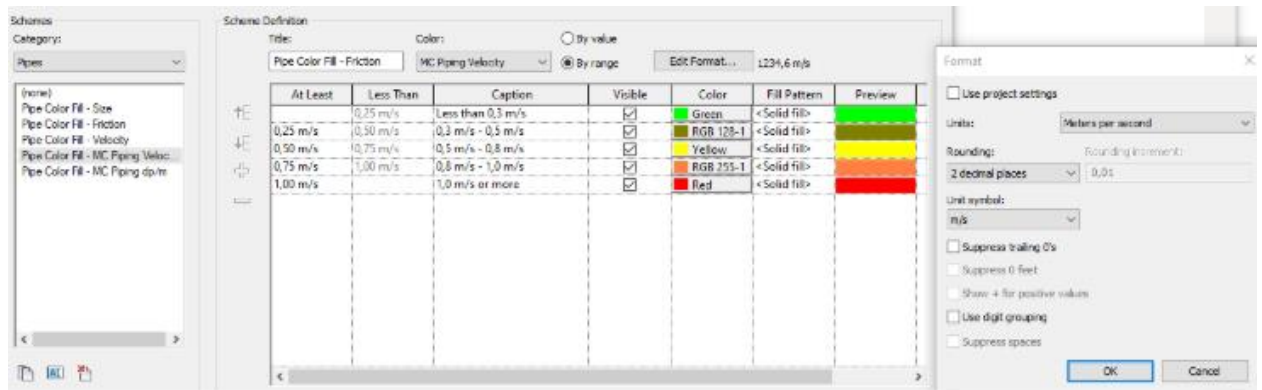
- Derudover er alle duct systems sat til no override i line weight, samt no override i line pattern. Så bliver mech hidden line vist korrekt.
- VP_Insulation filteret er fjernet på alle work view der har med ducts at gøre, det var overflødigt på ducts, men det er stadigvæk på pipes work views,

| SECTION/VIEW/VIEW (VIEW) USE NOT TO | <input type="checkbox"/> | | |
|-------------------------------------|-------------------------------------|---|-----|
| VP_Insulation | <input checked="" type="checkbox"/> |  | 50% |

- Tilføjer fliter S-KON til viewtemplate WORK-3_C__CLASH – Solid fill = White
- Fjernet kategorien Floor fra all QA Viewtemplates
- 3D HEATING viewtemplate er der slukket for MagiCAD_Circulation_Point
- QA__3_P__MC PIPING dp/m er filter ændret så farverne passer med nedenstående indstillinger.

| | | | | |
|--|-------------------------------------|--|---|--|
| P__BV - BRUGSVAND (#1), VARMT (System Abbreviation) | <input type="checkbox"/> | | | |
| P__Sanitary (System Classification) | <input type="checkbox"/> | | | |
| P__Pipework MC Piping dp/m mindre end 0,050 kPa | <input checked="" type="checkbox"/> |  |  | |
| P__Pipework MC Piping dp/m større end 0,100 kPa | <input checked="" type="checkbox"/> |  |  | |
| P__Pipework MC Piping dp/m større end 0,050 kPa og mindre end 0,1... | <input checked="" type="checkbox"/> |  |  | |

- QA__P_P__MC PIPING VELOCITY color scheme er nu med 2 decimaler



Generelt:

- Template purget og rensset.
- Duct Series opdateret:
 - Fleksible Kanaler
 - Lindab Rekt
 - Lindab SR
 - Lindab SR Standard

Lokalisering DEN-MCREV-2020_b

Denne lokalisering indeholder både EL, VVS og VENTILATION og bygger oven på de tidligere lokaliseringer, der ud over beskrivelsen i dette dokument, er beskrevet i dokumenterne DEN-MCREV-E-2019_c.pdf og DEN-MCREV-MP-2019_c.pdf

Bortset fra filformatet er lokaliseringen til Revit 2020 og Revit 2019 identisk med lokaliseringen til Revit 2018.

MP lokalisering til MagiCAD på Revit 2018, består ud over dette dokument af fire filer.

- DEN-MCREV-2020_b_r2018.mrv (dataset)**
- DEN-MCREV-2020_b_r2018.rte (Revit template)**
- DEN-MCREV-2020_b_r2018.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2019, består ud over dette dokument af fire filer.

- DEN-MCREV-2020_b_r2019.mrv (dataset)**
- DEN-MCREV-2020_b_r2019.rte (Revit template)**
- DEN-MCREV-2020_b_r2019.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2020, består ud over dette dokument af fire filer.

- DEN-MCREV-2020_b_r2020.mrv (dataset)**
- DEN-MCREV-2020_b_r2020.rte (Revit template)**
- DEN-MCREV-2020_b_r2020.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

Dataset

Ventilation

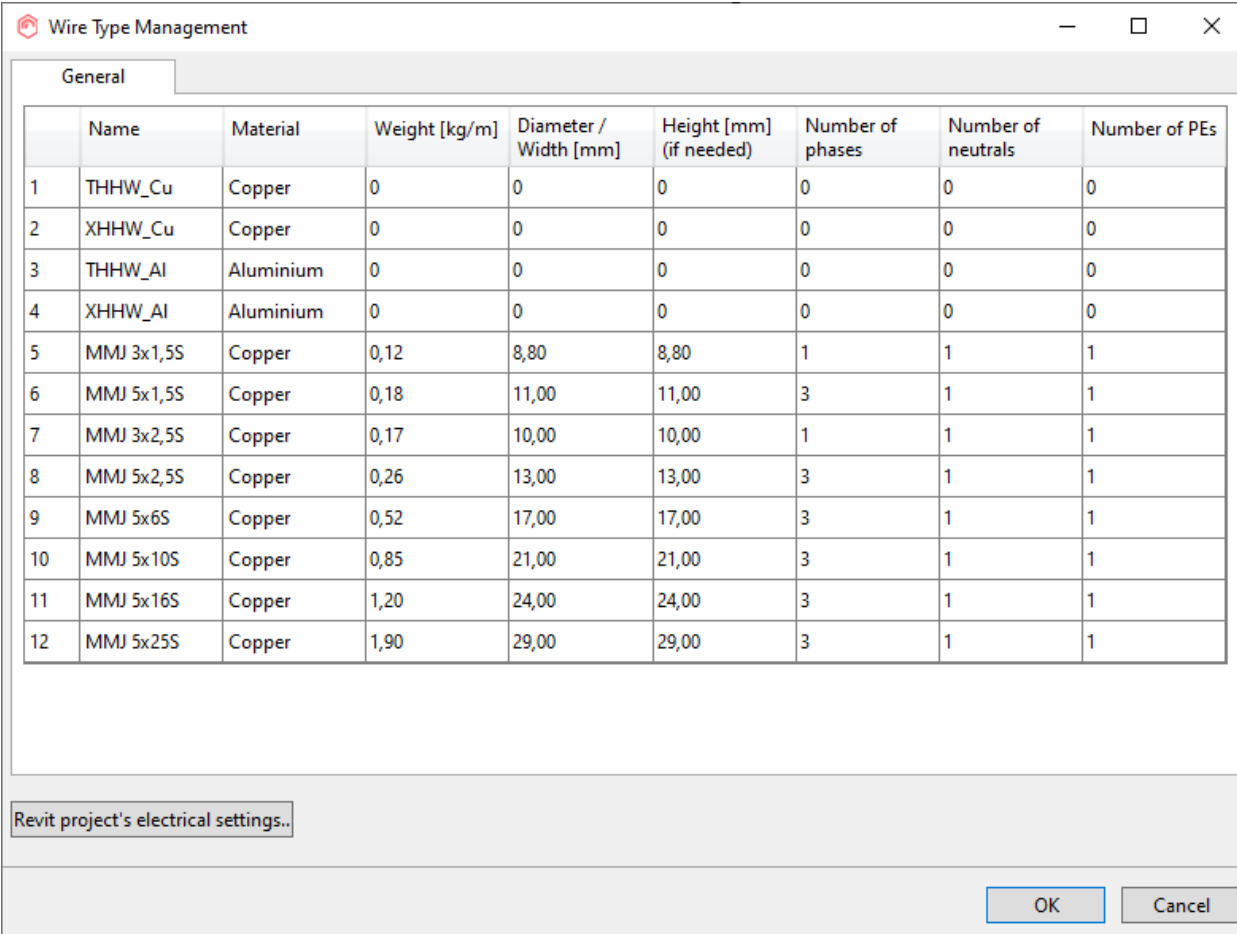
- Flangen LS LOOSE på rekt kanaler er ændret til LS_L da LS LOOSE i visse tilfælde gav årsag til fejl.
- På serien Lindab Rekt er flangerne LS og LS Loose skiftet ud med RJFP og RJFP_L, da disse i dag leveres som standard fra Lindab. LS og LS Loose (nu LS_L) er bevaret i datasettet.
- På serien Lindab Rekt er Duct Joint MAGIJ-R-*-* er udskiftet med MAGIJ-R2. Dette for at flangens størrelse ikke påvirker kanal-længder.

Afløb

- N-Branch er tilføjet drainage serien MA Afløb.

EI

- Data for nye Wiring Types tilføjet:



| | Name | Material | Weight [kg/m] | Diameter / Width [mm] | Height [mm] (if needed) | Number of phases | Number of neutrals | Number of PEs |
|----|------------|-----------|---------------|-----------------------|-------------------------|------------------|--------------------|---------------|
| 1 | THHW_Cu | Copper | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | XHHW_Cu | Copper | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | THHW_AI | Aluminium | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | XHHW_AI | Aluminium | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | MMJ 3x1,5S | Copper | 0,12 | 8,80 | 8,80 | 1 | 1 | 1 |
| 6 | MMJ 5x1,5S | Copper | 0,18 | 11,00 | 11,00 | 3 | 1 | 1 |
| 7 | MMJ 3x2,5S | Copper | 0,17 | 10,00 | 10,00 | 1 | 1 | 1 |
| 8 | MMJ 5x2,5S | Copper | 0,26 | 13,00 | 13,00 | 3 | 1 | 1 |
| 9 | MMJ 5x6S | Copper | 0,52 | 17,00 | 17,00 | 3 | 1 | 1 |
| 10 | MMJ 5x10S | Copper | 0,85 | 21,00 | 21,00 | 3 | 1 | 1 |
| 11 | MMJ 5x16S | Copper | 1,20 | 24,00 | 24,00 | 3 | 1 | 1 |
| 12 | MMJ 5x25S | Copper | 1,90 | 29,00 | 29,00 | 3 | 1 | 1 |

Revit project's electrical settings..

OK Cancel






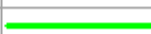

Template

View Types, View templates, Filtre, og Schedules:

- Floor Pattern visibility slukket i view templates for planer.
- Ny View Template: QA___P_P__MC PIPING VELOCITY med ny Pipe Legend: MC Piping Velocity
- Ny View Template: QA___P_P__MC PIPING dp/m med ny Pipe Legend:MC PIPING dp/m
- Ny View Template: QA___3_P__MC PIPING VELOCITY med følgende filtre:
 - P___Pipework MC Piping Velocity mindre end 0,25 m/sek
 - P___Pipework MC Piping Velocity større end 0,25 m/sek og mindre end 0,50 m/sek
 - P___Pipework MC Piping Velocity større end 0,50 m/sek og mindre end 0,75 m/sek
 - P___Pipework MC Piping Velocity større end 0,75 m/sek og mindre end 1,00 m/sek
 - P___Pipework MC Piping Velocity større end 1,00 m/sek
- Ny View Template: QA___3_P__MC PIPING dp/m med følgende filtre:
 - P___Pipework MC Piping dp/m mindre end 0,050 kPa
 - P___Pipework MC Piping dp/m større end 0,050 kPa og mindre end 0,100 kPa
 - P___Pipework MC Piping dp/m større end 0,100 kPa
- Ny View Template: QA___P_E_ELECTRICAL PANEL på baggrund af WORK_P_E_ELECTRICAL, med følgende filter tilføjet:
 - E___Panel tilsluttet komponenter
- Ny View Template QA___P_E_ELECTRICAL SWITCH på baggrund af WORK_P_E_ELECTRICAL, med følgende filter tilføjet:
 - E___Panel tilsluttet komponenter
 - E___Switch tilsluttet komponenter
- View Type QA___P__HEATING VELOCITY anvender nu View Template QA___P_P__MC PIPING VELOCITY
- View Type QA___P__HEATING FRICTION anvender nu View Template QA___P_P__MC PIPING dp/m
- Filtre på View Template QA___3_V__VELOCITY er ændret til at skille ved 3, 5, 7, og 9 m/sek.

- Filtre tilføjet til View Template WORK_3_C__CLASH:

Visibility/Graphic Overrides for WORK_3_C__CLASH

| Name | Visibility | Projection/Surface | | |
|-------------------|-------------------------------------|---|--|--------------|
| | | Lines | Patterns | Transparency |
| E_KABELBAKKE | <input checked="" type="checkbox"/> |  |  | |
| E_GITTERBAKKE | <input checked="" type="checkbox"/> |  |  | |
| E_ALMENFØRINGSVEJ | <input checked="" type="checkbox"/> |  | | |
| E_KABELSTIGE | <input checked="" type="checkbox"/> |  | | |
| E_LADDER | <input checked="" type="checkbox"/> |  | | |

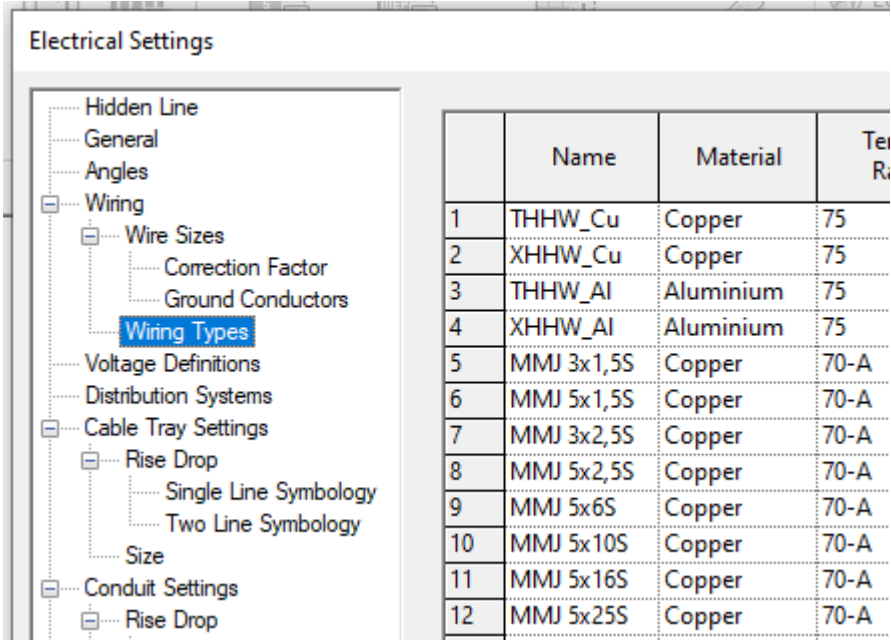
- Filtre for P_VF og P_VR ændret, så de styres af BEGINS WITH (VF/VR) i stedet for EQUALS (VF/VR)
- Isolering transparens styres kun vha. Filtre, og ikke både via filtre og Model Categories.
- Schedule «Rumskema» er erstattet af «Room Schedule» der kigger på Rooms, også fra linkede filer.
- Oprettet Space Schedule til brug for Spaces i den aktuelle i model. Kigger som udgangspunkt ikke efter Spaces i linkede filer.
- Cut Plane offset er ændret til 1800mm på SHEET loftplaner.
- Cut Plane offset er ændret til 10mm på WORK loftplaner

Families:

- Detail Items: VARME, FREM (samt primær og sekundær) er flyttet til at ligge under MC Heating Supply og VARME, RETUR (samt primær og sekundær) er flyttet til MC Heating Supply.
- Generic Annotation family MC_VERTICAL_0_DATA opdateret (anvendes på Switchboard Schematic Sheets).
- Origin family flyttet fra Level til Ref. Plane. Derved bevares Origin familien, selv hvis level slettes (evt. i forbindelse med Copy/monitor).

MEP Settings:

- Nye Wiring Types oprettet:



| | Name | Material | Ter Ri |
|----|------------|-----------|-----------|
| 1 | THHW_Cu | Copper | 75 |
| 2 | XHHW_Cu | Copper | 75 |
| 3 | THHW_Al | Aluminium | 75 |
| 4 | XHHW_Al | Aluminium | 75 |
| 5 | MMJ 3x1,5S | Copper | 70-A |
| 6 | MMJ 5x1,5S | Copper | 70-A |
| 7 | MMJ 3x2,5S | Copper | 70-A |
| 8 | MMJ 5x2,5S | Copper | 70-A |
| 9 | MMJ 5x6S | Copper | 70-A |
| 10 | MMJ 5x10S | Copper | 70-A |
| 11 | MMJ 5x16S | Copper | 70-A |
| 12 | MMJ 5x25S | Copper | 70-A |

Generelt:

- Template purget og rensset.
- Duct Series opdateret:
 - Fleksible Kanaler
 - Lindab Rekt
 - Lindab SR
 - Lindab SR Standard

Lokalisering DEN-MCREV-2020_a

Denne lokalisering indeholder både EL, VVS og VENTILATION og bygger oven på de tidligere lokaliseringer, der er beskrevet i dokumenterne DEN-MCREV-E-2019_c.pdf og DEN-MCREV-MP-2019_c.pdf

Bortset fra filformatet er lokaliseringen til Revit 2020 og Revit 2019 identisk med lokaliseringen til Revit 2018.

MP lokalisering til MagiCAD på Revit 2018, består ud over dette dokument af fire filer.

- DEN-MCREV-2020_a_r2018.mrv (dataset)**
- DEN-MCREV-2020_a_r2018.rte (Revit template)**
- DEN-MCREV-2020_a_r2018.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2019, består ud over dette dokument af fire filer.

- DEN-MCREV-2020_a_r2019.mrv (dataset)**
- DEN-MCREV-2020_a_r2019.rte (Revit template)**
- DEN-MCREV-2020_a_r2019.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2020, består ud over dette dokument af fire filer.

- DEN-MCREV-2020_a_r2020.mrv (dataset)**
- DEN-MCREV-2020_a_r2020.rte (Revit template)**
- DEN-MCREV-2020_a_r2020.mcd (description fil)**
- NTItools_DK_MEP_Shared parameters .txt**



Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

Dataset

Mixing Unit

2 shunts er tilføjet. Det er blevet muligt at size og indregulere med disse.

MagiCAD - C:\Users\jhe\Desktop\2020 MR\MagiCAD-RS_DEN\2020_r2018\Datasets\DEN-MCREV-2020_a_r2018.mrv

| User code | Description | Product | Manufa | Preview |
|-----------|--|------------------------|---------|---|
| | FHM-C Mixing shunt Alpha 2 15-40 pump | FHM-C8-088U0098 | Danfoss |  |
| | Shunt unit for district heating or cooling, primary circuit co | Top-25 P-1-2 S-3-4 CVP | Generic |  |

Left sidebar categories:

- Balancing methods
- Hazard classes for sprinklers
- Devices and components
 - Heating radiator
 - Radiator valve
 - Domestic hot water radiator
 - Zone valve
 - Stop valve
 - Other valve
 - Other pipe component
 - Other pipe device
 - Domestic water device
 - Sprinkler device
 - Gas device
 - Gas component
 - Heating & Cooling Plant
 - Pipe manifold
 - Fan coil unit
 - Pump
 - Mixing unit

Provision for Builderswork Openings

Ved generering af "Provision for Builderswork Openings" tilføjes nu en time stamp.

Det er blevet muligt at koble symboler til "Provision for Builderswork Openings"

Provision for Builderswork Openings - Options

Offset

| | Ventilation | Piping | Electrical |
|--|-------------|--------|------------|
| Below/around rectangular objects (h1): | 50 mm | | 50 mm |
| Around circular objects (h2): | 50 mm | 20 mm | 50 mm |
| Above rectangular objects (h3): | 50 mm | | 100 mm |
| Extra offset around fire or flow dampers: | 50 mm | | |
| Merge into a single opening if distance between adjacent openings is less than (h4): | 100 mm | | |

Use BWO size ranges (if set)

Limits

| | |
|---|--------|
| Min. diameter for circular openings: | 25 mm |
| Circular openings become rectangular openings if diameter | 400 mm |
| Rounding step: | 50 mm |
| Rounding down limit: | 20 mm |
| Ignore circular openings smaller than: | 20 mm |
| Tolerance for combining collinear openings: | 100 mm |

Owner

| | |
|--------------|----|
| Ventilation: | V |
| Piping: | HP |
| Plumbing: | P |
| Sprinkler: | S |
| Electrical: | E |

Time

Time format: YYYY.MM.DD HH:MM

2D symbols

Select...

OK Cancel

2D Symbols

Horizontal

| | ROUND Penetrating | ROUND Recess | RECTANGULAR Penetrating | RECTANGULAR Recess |
|----------------|-------------------|--------------|-------------------------|--------------------|
| Wall Plan view | | | | |
| Wall Elevation | | | | |
| Wall Section | | | | |

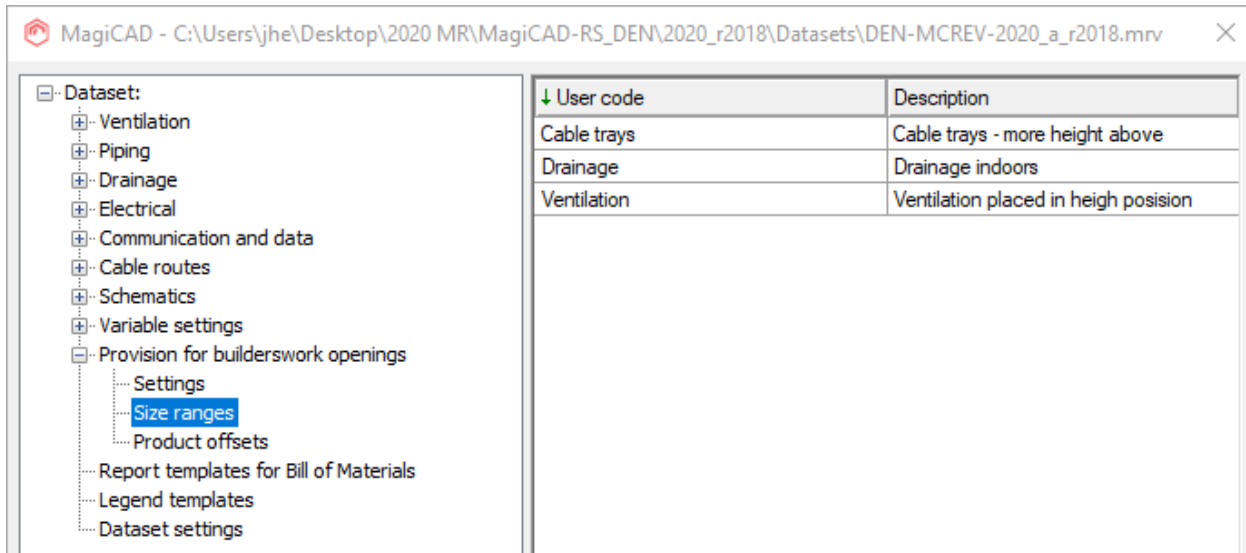
Vertical

| | ROUND Penetrating | ROUND Recess | RECTANGULAR Penetrating | RECTANGULAR Recess |
|------------------------|-------------------|--------------|-------------------------|--------------------|
| Floor / roof Plan view | | | | |
| Floor / roof Section | | | | |

OK Cancel

”Size ranges” blev allerede muligt med 2019 UR1.

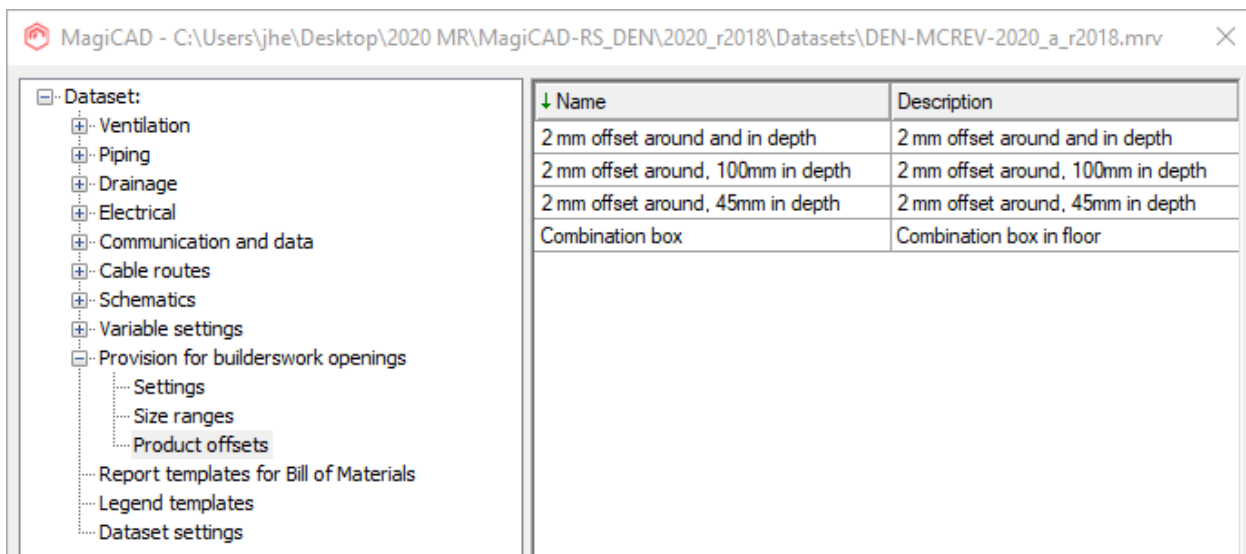
Forslag hertil er nu tilføjet til datasettet.



| User code | Description |
|-------------|--------------------------------------|
| Cable trays | Cable trays - more height above |
| Drainage | Drainage indoors |
| Ventilation | Ventilation placed in heigh position |

”Product offsets” blev allerede muligt med 2019 UR2

Forslag hertil er nu tilføjet til datasettet.



| Name | Description |
|------------------------------------|------------------------------------|
| 2 mm offset around and in depth | 2 mm offset around and in depth |
| 2 mm offset around, 100mm in depth | 2 mm offset around, 100mm in depth |
| 2 mm offset around, 45mm in depth | 2 mm offset around, 45mm in depth |
| Combination box | Combination box in floor |

Template

Navngivningen af viewtemplates og viewtyper følger standarden nedenfor.

| | VIEW USE | |
|-------------------|----------|-------------------------|
| WORK | 1_WORK | ARBEJDSVIEWS |
| SHEET | 2_SHEET | VIEWS OPSAT TIL PLOT |
| EXPORT | 3_EXPORT | VIEWS OPSAT TIL EKSPORT |
| QUALITY ASSURANCE | 4_QA | KVALITETSIKRING |

| | VIEW TYPE | |
|---------|-----------|-------------------|
| PLAN | P | PLAN |
| CEILING | C | LOFTPLAN |
| SECTION | S | SNIT OG OPSTALTER |
| 3D | 3 | 3d |
| DIAGRAM | D | PRINCIPDIAGRAMMER |

| | MagiCAD DICIPLINE | |
|--------------|-------------------|------------------------|
| ARCHITECTURE | A | ARKITEKT |
| COORDINATION | C | KOORDINERING |
| ELECTRICAL | E | EL |
| PIPING | P | VVS |
| STRUCTURE | S | BÆRENDE KONSTRUKTIONER |
| VENTILATION | V | VENTILATION |

| MagiCAD SUB-DICIPLINE | |
|-------------------------------------|-----------------------------------|
| PROVISION FOR BUILDERSWORK OPENINGS | UDSPARINGER |
| QA | KVALITETSIKRING |
| FRICITION | Pa/m |
| SPACE SOUND | dB |
| VELOCITY | m/sek |
| SPATIAL COMPOSITION | OPSAT TIL NTI SPATIAL COMPOSITION |
| DOMESTIC WATER | BRUGSVAND |
| DRAINAGE | AFLØB |
| HEATING | OPVARMNING |
| SPRINKLER | SPRINKLER |
| LIGHTING | BELYSNING |

SUB-DICIPLINE = MagiCAD DICIPLINE_ MagiCAD SUB-DICIPLINE

Viewtemplates

VIEW USE_VIEW TYPE_MagiCAD-DICIPLINE_MagiCAD SUB-DICIPLINE

| | |
|--|---|
| <p>View templates</p> <p>Discipline filter: <all></p> <p>View type filter: 3D Views, Walkthroughs</p> <p>Names:</p> <ul style="list-style-type: none"> QA_3_C_PROVISION FOR BUILDERSWORK OPENINGS QA_3_P_HEATING FRICTION QA_3_P_HEATING VELOCITY QA_3_V_FRICTION QA_3_V_QA QA_3_V_VELOCITY SHEET_3_C_SPATIAL COMPOSITION SHEET_3_E_ELECTRICAL SHEET_3_E_SPATIAL COMPOSITION SHEET_3_P_DOMESTIC WATER SHEET_3_P_DRAINAGE SHEET_3_P_HEATING SHEET_3_P_PIPING SHEET_3_P_SPRINKLER SHEET_3_V_VENTILATION SHEET_3_VP_SPATIAL COMPOSITION SHEET_3_VP_VENTILATION & PIPING WORK_3_C_CLASH WORK_3_C_COORDINATION WORK_3_E_ELECTRICAL WORK_3_P_DOMESTIC WATER WORK_3_P_DRAINAGE WORK_3_P_HEATING WORK_3_P_PIPING WORK_3_P_SPRINKLER WORK_3_V_VENTILATION WORK_3_VP_VENTILATION & PIPING | <p>View templates</p> <p>Discipline filter: <all></p> <p>View type filter: Elevations, Sections, Detail Views</p> <p>Names:</p> <ul style="list-style-type: none"> SHEET_S_C_COORDINATION SHEET_S_E_ELECTRICAL SHEET_S_P_DOMESTIC WATER SHEET_S_P_DRAINAGE SHEET_S_P_HEATING SHEET_S_P_PIPING SHEET_S_P_SPRINKLER SHEET_S_V_VENTILATION SHEET_S_VP_SPATIAL COMPOSITION SHEET_S_VP_VENTILATION & PIPING WORK_S_C_CLASH WORK_S_C_COORDINATION WORK_S_E_ELECTRICAL WORK_S_P_DOMESTIC WATER WORK_S_P_DRAINAGE WORK_S_P_HEATING WORK_S_P_PIPING WORK_S_P_SPRINKLER WORK_S_V_VENTILATION WORK_S_VP_VENTILATION & PIPING |
| <p>View templates</p> <p>Discipline filter: <all></p> <p>View type filter: Ceiling Plans</p> <p>Names:</p> <ul style="list-style-type: none"> SHEET_C_C_COORDINATION SHEET_C_E_ELECTRICAL SHEET_C_P_PIPING SHEET_C_V_VENTILATION SHEET_C_VP_VENTILATION & PIPING SHEET_C_VPE_VENTILATION & PIPING & ELECTRICAL WORK_C_C_COORDINATION WORK_C_E_ELECTRICAL WORK_C_P_PIPING WORK_C_V_VENTILATION WORK_C_VP_VENTILATION & PIPING | <p>View templates</p> <p>Discipline filter: <all></p> <p>View type filter: Floor, Structural, Area Plans</p> <p>Names:</p> <ul style="list-style-type: none"> QA_P_C_PROVISION FOR BUILDERSWORK OPENINGS QA_P_P_HEATING FRICTION QA_P_P_HEATING VELOCITY QA_P_V_FRICTION QA_P_V_QA QA_P_V_SPACE SOUND QA_P_V_VELOCITY SHEET_P_C_COORDINATION SHEET_P_E_ELECTRICAL SHEET_P_E_LIGHTING SHEET_P_E_SPATIAL COMPOSITION SHEET_P_P_DOMESTIC WATER SHEET_P_P_DRAINAGE SHEET_P_P_HEATING SHEET_P_P_PIPING SHEET_P_P_SPRINKLER SHEET_P_V_VENTILATION SHEET_P_VP_SPATIAL COMPOSITION SHEET_P_VP_VENTILATION & PIPING WORK_P_C_CLASH WORK_P_C_COORDINATION WORK_P_E_ELECTRICAL WORK_P_E_LIGHTING WORK_P_P_DOMESTIC WATER WORK_P_P_DRAINAGE WORK_P_P_HEATING WORK_P_P_PIPING WORK_P_P_SPRINKLER WORK_P_V_VENTILATION WORK_P_VP_VENTILATION & PIPING |
| <p>View templates</p> <p>Discipline filter: <all></p> <p>View type filter: Renderings, Drafting Views</p> <p>Names:</p> <ul style="list-style-type: none"> SHEET_D_VP_VENTILATION & PIPING | |

Viewtype

VIEW USE_ MagiCAD-DICIPLINE_ SUB-DICIPLINE

| |
|---|
| System Family: Floor Plan |
| WORK_C__COORDINATION |
| Floor Plan QA__C__PROVISION FOR BUILDERSWORK OPENINGS QA__P__HEATING FRICTION QA__P__HEATING VELOCITY QA__V__FRICTION QA__V__QA QA__V__SPACE SOUND QA__V__VELOCITY SHEET_E__ELECTRICAL SHEET_E__LIGHTING SHEET_P__DOMESTIC WATER SHEET_P__DRAINAGE SHEET_P__HEATING SHEET_P__PIPING SHEET_P__SPRINKLER SHEET_V__VENTILATION SHEET_VP__SPATIAL COMPOSITION SHEET_VP__VENTILATION & PIPING WORK_C__CLASH WORK_C__COORDINATION WORK_E__ELECTRICAL WORK_P__DOMESTIC WATER WORK_P__DRAINAGE WORK_P__HEATING WORK_P__PIPING WORK_P__SPRINKLER WORK_V__VENTILATION WORK_VP__VENTILATION & PIPING |
| System Family: Section |
| WORK_C__COORDINATION |
| Building Section Building Section Classic SHEET_E__ELECTRICAL SHEET_E__LIGHTING SHEET_P__DOMESTIC WATER SHEET_P__DRAINAGE SHEET_P__HEATING SHEET_P__PIPING SHEET_P__SPRINKLER SHEET_V__VENTILATION SHEET_VP__SPATIAL COMPOSITION SHEET_VP__VENTILATION & PIPING WORK_C__CLASH WORK_C__COORDINATION WORK_E__ELECTRICAL WORK_P__DOMESTIC WATER WORK_P__DRAINAGE WORK_P__HEATING WORK_P__PIPING WORK_P__SPRINKLER WORK_V__VENTILATION WORK_VP__VENTILATION & PIPING |

- System Family: 3D View ▼
 - 3D View ▼
 - 3D View
 - SHEET_E__ SPATIAL COMPOSITION
 - SHEET_VP__ SPATIAL COMPOSITION

- System Family: Elevation ▼
 - WORK_C__ COORDINATION ▼
 - Building Elevation
 - WORK_C__ COORDINATION

- System Family: Ceiling Plan ▼
 - Ceiling Plan ▼
 - Ceiling Plan

- System Family: Drafting View ▼
 - Detail ▼
 - Detail

Filters

Filters

- [-] Rule-based Filters
 - Detail Item BRUGSVAND, CIRKULATION
 - Detail Item BRUGSVAND, KOLDT
 - Detail Item BRUGSVAND, VARMT
 - Detail Item GULVVARME, FREM
 - Detail Item GULVVARME, RETUR
 - Detail Item KØLING, FREM
 - Detail Item KØLING, RETUR
 - Detail Item SPRINKLERANLÆG
 - Detail Item VARME, FREM
 - Detail Item VARME, FREM, PRIMÆR
 - Detail Item VARME, FREM, SEKUNDÆR
 - Detail Item VARME, RETUR
 - Detail Item VARME, RETUR, PRIMÆR
 - Detail Item VARME, RETUR, SEKUNDÆR
 - Detail Item VENTILATION, AFKAST
 - Detail Item VENTILATION, INDBLÆSNING
 - Detail Item VENTILATION, INDTAG
 - Detail Item VENTILATION, UDSUGNING
 - E__ALMENFØRINGSVEJ
 - E__BELYSNINGSANLÆG
 - E__GITTERBAKKE
 - E__KABELBAKKE
 - E__KABELSTIGE
 - E__LADDER
 - E__LAVSPÆNDING
 - E__MC Is Inside Combination Box
 - E__RØR_I_BYGNING
 - E__RØR_I_TERRÆN
 - P__BC - BRUGSVAND (#1), CIRKULATION (System Abbreviation)
 - P__BK - BRUGSVAND (#1), KOLDT (System Abbreviation)
 - P__BV - BRUGSVAND (#1), VARMT (System Abbreviation)
 - P__DV - DRÆN(VAND) (System Abbreviation)
 - P__GVF - GULVVARME, FREM (System Abbreviation)
 - P__GVR - GULVVARME, RETUR (System Abbreviation)
 - P__Hydronic (System Classification)
 - P__KF - KØLING, FREM (System Abbreviation)
 - P__KR - KØLING, RETUR (System Abbreviation)
 - P__Pipe Accessories
 - P__Pipework
 - P__Pipework friction mindre end 100 Pa/m
 - P__Pipework friction større end 100 Pa/m mindre end 150 Pa/m
 - P__Pipework friction større end 150 Pa/m
 - P__Pipework velocity mindre end 0,25 m/sek
 - P__Pipework velocity større end 0,25 m/sek og mindre end 0,50 m/sek
 - P__Pipework velocity større end 0,50 m/sek og mindre end 0,75 m/sek
 - P__Pipework velocity større end 0,75 m/sek og mindre end 1,00 m/sek
 - P__Pipework velocity større end 1,00 m/sek
 - P__Plumbing Fixture
 - P__Plumbing Fixture Domestic (System Classification)
 - P__Plumbing Fixture Sanitary (System Classification)
 - P__Sanitary (System Classification)
 - P__SPR - SPRINKLERANLÆG, RØR (System Abbreviation)
 - P__Sprinklers
 - P__SV - AFLØB, SPILDEVAND (System Abbreviation)
 - P__TV - AFLØB, TAG-(REGN)VAND - (System Abbreviation)
 - P__VF - VARME, FREM (System Abbreviation)
 - P__VR - VARME, RETUR (System Abbreviation)
 - S__KON

.....Sections/Elev/Cal (SUB-DICIPLINE not C __CLASH)
Sections/Elev/Cal (SUB-DICIPLINE not C __COORDINATION)
Sections/Elev/Cal (SUB-DICIPLINE not C __PROVISION FOR BUILDERSWORK OPENINGS)
Sections/Elev/Cal (SUB-DICIPLINE not C __SPATIAL COMPOSITION)
Sections/Elev/Cal (SUB-DICIPLINE not E __ELECTRICAL)
Sections/Elev/Cal (SUB-DICIPLINE not E __LIGHTING)
Sections/Elev/Cal (SUB-DICIPLINE not E __SPATIAL COMPOSITION)
Sections/Elev/Cal (SUB-DICIPLINE not P __DOMESTIC WATER)
Sections/Elev/Cal (SUB-DICIPLINE not P __DRAINAGE)
Sections/Elev/Cal (SUB-DICIPLINE not P __HEATING FRICTION)
Sections/Elev/Cal (SUB-DICIPLINE not P __HEATING VELOCITY)
Sections/Elev/Cal (SUB-DICIPLINE not P __HEATING)
Sections/Elev/Cal (SUB-DICIPLINE not P __PIPING)
Sections/Elev/Cal (SUB-DICIPLINE not P __SPRINKLER)
Sections/Elev/Cal (SUB-DICIPLINE not V __FRICTION)
Sections/Elev/Cal (SUB-DICIPLINE not V __QA)
Sections/Elev/Cal (SUB-DICIPLINE not V __SPACE SOUND)
Sections/Elev/Cal (SUB-DICIPLINE not V __VELOCITY)
Sections/Elev/Cal (SUB-DICIPLINE not V __VENTILATION)
Sections/Elev/Cal (SUB-DICIPLINE not VP __SPATIAL COMPOSITION)
Sections/Elev/Cal (SUB-DICIPLINE not VP __VENTILATION & PIPING)
Sections/Elev/Cal (SUB-DICIPLINE not VPE_VENTILATION & PIPING & ELECTRICAL)
Sections/Elev/Cal (VIEW-USE 2_SHEET)
Sections/Elev/Cal (VIEW-USE not 1_WORK)
Sections/Elev/Cal (VIEW-USE not 2_SHEET)
Sections/Elev/Cal (VIEW-USE not 4_QUALITY ASSURANCE)
V __Afkast (Exhaust = System Classification)
V __Air Terminals
V __Duct Accessories
V __Ductwork
V __Ductwork friction mindre end 0,6 Pa/m
V __Ductwork friction større end 0,6 Pa/m mindre end 0,8 Pa/m
V __Ductwork friction større end 0,8 Pa/m mindre end 1,0 Pa/m
V __Ductwork friction større end 1,0 Pa/m
V __Ductwork velocity mindre end 3 m/sek
V __Ductwork velocity større end 3 m/sek mindre end 5 m/sek
V __Ductwork velocity større end 5 m/sek mindre end 7 m/sek
V __Ductwork velocity større end 7 m/sek mindre end 9 m/sek
V __Ductwork velocity større end 9 m/sek
V __Indblæsning (Supply = System Classification)
V __KS
V __Mechanical Equipment ((NOT Radiatorer) AND (NOT MC_ConnectionNode_Hydronic))
V __Udsugning (Return = System Classification)
V __VENTILATION, AFKAST (System Abbreviation)
V __VENTILATION, INDBLÆSNING (System Abbreviation)
V __VENTILATION, INDTAG (System Abbreviation)
V __VENTILATION, UDSUGNING (System Abbreviation)
VP __Insulation
VP __Mechanical Equipment
VP __Mechanical Equipment (MC Void Provision)
VP __Mechanical Equipment (MCSH)
VP __Mechanical Equipment (not MagiCAD_Circulation_Point)
VP __Mechanical Equipment (not MC Void Provision)
VP __Mechanical Equipment (NOT MC_ConnectionNode_Hydronic)
VP __Mechanical Equipment (not MCSH)
VP __Mechanical Equipment (NOT Radiatorer)
VP __Mechanical Equipment (NOT SystemClassification Air)
VP __Mechanical Equipment (Radiatorer)
VP __Mechanical Equipment (SystemClassification Air)
VP __Mechanical Equipment UDSPARING Accepted
VP __Mechanical Equipment UDSPARING Not accepted
VP __Mechanical Equipment UDSPARING Postpone - No Action
VP __Mechanical Equipment UDSPARING Rejected
VP __Mechanical Equipment UDSPARING sent to production
VPE_Is Linked In Schematic
Selection Filters

Quality Assurance

Detaljeret beskrivelse af viewtemplates

QA__3_C__PROVISION FOR BUILDERSWORK OPENINGS

PROVISION FOR BUILDERSWORK OPENINGS er nu Mechanical Equipments. Family Name er ændret.

QA__P_C__PROVISION FOR BUILDERSWORK OPENINGS

PROVISION FOR BUILDERSWORK OPENINGS er nu Mechanical Equipments. Family Name er ændret.

QA__3_P__HEATING_FRICTION

| | | |
|---------------|---------------------|-------------------------------------|
| SUB-DICIPLINE | P__HEATING FRICTION | <input checked="" type="checkbox"/> |
| VIEW USE | QUALITY ASSURANCE | <input checked="" type="checkbox"/> |

Visibility/Graphic Overrides for QA__3_P__HEATING FRICTION

Model Categories | Annotation Categories | Analytical Model Categories | Imported Categories | Filters

| Name | Visibility | Projection/Surface | |
|--|-------------------------------------|--------------------|----------|
| | | Lines | Patterns |
| VP__Mechanical Equipment (Radiatorer) | <input checked="" type="checkbox"/> | | |
| VP__Mechanical Equipment (SystemClassification Air) | <input type="checkbox"/> | | |
| VP__Mechanical Equipment MC Void Provision | <input type="checkbox"/> | | |
| P__KF - KØLING, FREM (System Abbreviation) | <input type="checkbox"/> | | |
| P__KR - KØLING, RETUR (System Abbreviation) | <input type="checkbox"/> | | |
| P__SPR - SPRINKLERANLÆG, RØR (System Abbreviation) | <input type="checkbox"/> | | |
| P__BC - BRUGSVAND (#1), CIRKULATION (System Abbreviation) | <input type="checkbox"/> | | |
| P__BK - BRUGSVAND (#1), KOLDT (System Abbreviation) | <input type="checkbox"/> | | |
| P__BV - BRUGSVAND (#1), VARMT (System Abbreviation) | <input type="checkbox"/> | | |
| P__Sanitary (System Classification) | <input type="checkbox"/> | | |
| P__Pipework friction mindre end 100 Pa/m | <input checked="" type="checkbox"/> | | |
| P__Pipework friction større end 100 Pa/m mindre end 150 Pa/m | <input checked="" type="checkbox"/> | | |
| P__Pipework friction større end 150 Pa/m | <input checked="" type="checkbox"/> | | |

QA__P_P__HEATING FRICTION

| | | |
|---------------|---------------------|-------------------------------------|
| SUB-DICIPLINE | P__HEATING FRICTION | <input checked="" type="checkbox"/> |
| VIEW USE | QUALITY ASSURANCE | <input checked="" type="checkbox"/> |

Color Schemes

| Categories | Color scheme |
|------------|----------------------------|
| Pipes | Pipe Color Fill - Friction |
| Ducts | <none> |

Edit Color Scheme

Schemes
Category: Pipes

Scheme Definition

Title: Pipe Color Fill - Friction
Color: Friction
By value:
By range: 1.235 Pa/m

| At Least | Less Than | Caption | Visible | Color | Fill Pattern | Preview |
|--------------|--------------|---------------------|-------------------------------------|--------|--------------|---------|
| | 100,000 Pa/m | Less than 100 Pa/m | <input checked="" type="checkbox"/> | Green | Solid fill | |
| 100,000 Pa/m | 150,000 Pa/m | 100 Pa/m - 150 Pa/m | <input checked="" type="checkbox"/> | Yellow | Solid fill | |
| 150,000 Pa/m | | 150 Pa/m or more | <input checked="" type="checkbox"/> | Red | Solid fill | |

QA__3_P__HEATING VELOCITY

| | | |
|---------------|---------------------|-------------------------------------|
| SUB-DICIPLINE | P__HEATING VELOCITY | <input checked="" type="checkbox"/> |
| VIEW USE | QUALITY ASSURANCE | <input checked="" type="checkbox"/> |

Visibility/Graphic Overrides for QA__3_P__HEATING VELOCITY

Model Categories Annotation Categories Analytical Model Categories Imported Categories Filters

| Name | Visibility | Projection/Surface | |
|--|-------------------------------------|--------------------|-------------|
| | | Lines | Patterns |
| VP__Mechanical Equipment (Radiatorer) | <input checked="" type="checkbox"/> | | |
| VP__Mechanical Equipment (SystemClassification Air) | <input type="checkbox"/> | | |
| VP__Mechanical Equipment MC Void Provision | <input type="checkbox"/> | Override... | Override... |
| P__KF - KØLING, FREM (System Abbreviation) | <input type="checkbox"/> | | |
| P__KR - KØLING, RETUR (System Abbreviation) | <input type="checkbox"/> | | |
| P__SPR - SPRINKLERANLÆG, RØR (System Abbreviation) | <input type="checkbox"/> | | |
| P__BC - BRUGSVAND (#1), CIRKULATION (System Abbreviation) | <input type="checkbox"/> | | |
| P__BK - BRUGSVAND (#1), KOLDT (System Abbreviation) | <input type="checkbox"/> | | |
| P__BV - BRUGSVAND (#1), VARMT (System Abbreviation) | <input type="checkbox"/> | | |
| P__Sanitary (System Classification) | <input type="checkbox"/> | | |
| P__Pipework velocity mindre end 0,25 m/sek | <input checked="" type="checkbox"/> | | |
| P__Pipework velocity større end 0,25 m/sek og mindre end 0,50 m... | <input checked="" type="checkbox"/> | | |
| P__Pipework velocity større end 0,50 m/sek og mindre end 0,75 m... | <input checked="" type="checkbox"/> | | |
| P__Pipework velocity større end 0,75 m/sek og mindre end 1,00 m... | <input checked="" type="checkbox"/> | | |
| P__Pipework velocity større end 1,00 m/sek | <input checked="" type="checkbox"/> | | |

QA__P_P__VELOCITY

| | |
|---------------|---------------------|
| SUB-DICIPLINE | P__HEATING VELOCITY |
| VIEW USE | QUALITY ASSURANCE |

Color Schemes

| Categories | Color scheme |
|------------|----------------------------|
| Pipes | Pipe Color Fill - Velocity |
| Ducts | <none> |

Edit Color Scheme

Schemes Category: Pipes

Scheme Definition

Title: Pipe Color Fill - Friction Color: Velocity By value By range Edit Format... 1234,6 m/s

| At Least | Less Than | Caption | Visible | Color | Fill Pattern | Preview |
|----------|------------------|-------------------|-------------------------------------|-------|--------------|---------|
| 0,25 m/s | 0,25 m/s | Less than 0,3 m/s | <input checked="" type="checkbox"/> | | Solid fill | |
| 0,50 m/s | 0,50 m/s | 0,3 m/s - 0,5 m/s | <input checked="" type="checkbox"/> | | Solid fill | |
| 0,75 m/s | 0,75 m/s | 0,5 m/s - 0,8 m/s | <input checked="" type="checkbox"/> | | Solid fill | |
| 1,00 m/s | 1,00 m/s | 0,8 m/s - 1,0 m/s | <input checked="" type="checkbox"/> | | Solid fill | |
| 1,00 m/s | 1,00 m/s or more | 1,0 m/s or more | <input checked="" type="checkbox"/> | | Solid fill | |

QA__3_V__FRICTION

| | | |
|---------------|-------------------|-------------------------------------|
| SUB-DICIPLINE | V__FRICTION | <input checked="" type="checkbox"/> |
| VIEW USE | QUALITY ASSURANCE | <input checked="" type="checkbox"/> |

Visibility/Graphic Overrides for QA__3_V__FRICTION

Model Categories Annotation Categories Analytical Model Categories Imported Categories Filters

| Name | Visibility | Projection/Surface | |
|--|-------------------------------------|--------------------|----------|
| | | Lines | Patterns |
| VP_Mechanical Equipment (NOT SystemClassification Air) | <input type="checkbox"/> | | |
| V__Ductwork friction mindre end 0,6 Pa/m | <input checked="" type="checkbox"/> | | |
| V__Ductwork friction større end 0,6 Pa/m mindre end 0,8 Pa/m | <input checked="" type="checkbox"/> | | |
| V__Ductwork friction større end 0,8 Pa/m mindre end 1,0 Pa/m | <input checked="" type="checkbox"/> | | |
| V__Ductwork friction større end 1,0 Pa/m | <input checked="" type="checkbox"/> | | |

QA__P_V__FRICTION

| | |
|---------------|-------------------|
| SUB-DICIPLINE | V__FRICTION |
| VIEW USE | QUALITY ASSURANCE |

Color Schemes

| Categories | Color scheme |
|------------|----------------------------|
| Pipes | <none> |
| Ducts | Duct Color Fill - Friction |

QA__3_V__VELOCITY

| | | |
|---------------|-------------------|-------------------------------------|
| SUB-DICIPLINE | V__VELOCITY | <input checked="" type="checkbox"/> |
| VIEW USE | QUALITY ASSURANCE | <input checked="" type="checkbox"/> |

Visibility/Graphic Overrides for QA__3_V__VELOCITY

Model Categories Annotation Categories Analytical Model Categories Imported Categories Filters

| Name | Visibility | Projection/Surface | |
|--|-------------------------------------|--------------------|----------|
| | | Lines | Patterns |
| VP__Mechanical Equipment (NOT SystemClassification Air) | <input type="checkbox"/> | | |
| V__Ductwork velocity mindre end 3 m/sek | <input checked="" type="checkbox"/> | | |
| V__Ductwork velocity større end 3 m/sek mindre end 5 m/sek | <input checked="" type="checkbox"/> | | |
| V__Ductwork velocity større end 5 m/sek mindre end 7 m/sek | <input checked="" type="checkbox"/> | | |
| V__Ductwork velocity større end 7 m/sek mindre end 9 m/sek | <input checked="" type="checkbox"/> | | |
| V__Ductwork velocity større end 9 m/sek | <input checked="" type="checkbox"/> | | |

QA__P_V__VELOCITY

| | |
|---------------|-------------------|
| SUB-DICIPLINE | V__VELOCITY |
| VIEW USE | QUALITY ASSURANCE |

Color Schemes

| Categories | Color scheme |
|------------|----------------------------|
| Pipes | <none> |
| Ducts | Duct Color Fill - Velocity |

QA__P_V__SPACE SOUND

| | | |
|---------------|-------------------|-------------------------------------|
| SUB-DICIPLINE | V__SPACE SOUND | <input checked="" type="checkbox"/> |
| VIEW USE | QUALITY ASSURANCE | <input checked="" type="checkbox"/> |

Edit Color Scheme

Schemes

Category: Spaces

- (none)
- Schema 1
- MC Sound Level LpA






Scheme Definition

Title: Schema 1 Legend

Color: MC Sound Level LpA

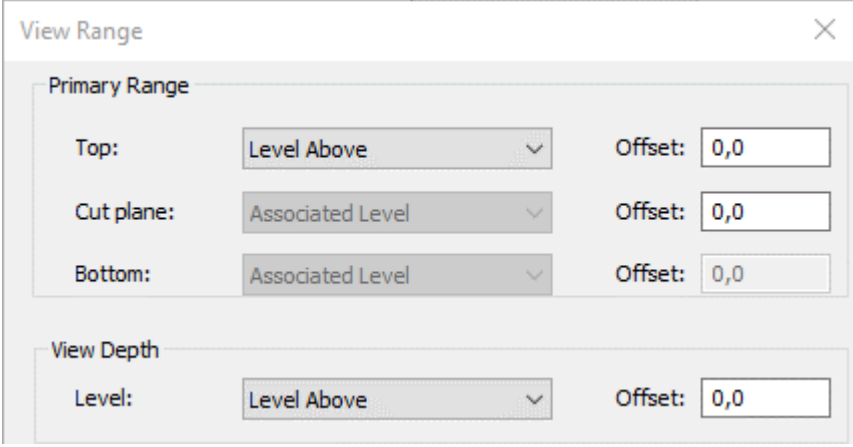
By value By range

Edit Format... 1234,56789

| At Least | Less Than | Caption | Visible | Color | Fill Pattern | Preview |
|-----------|-----------|--------------|-------------------------------------|-----------------|--------------|---|
| | 27,000000 | Less than 27 | <input checked="" type="checkbox"/> | Green | Solid fill |  |
| 27,000000 | 30,000000 | 27 - 30 | <input checked="" type="checkbox"/> | RGB 128-128-000 | Solid fill |  |
| 30,000000 | 33,000000 | 30 - 33 | <input checked="" type="checkbox"/> | Yellow | Solid fill |  |
| 33,000000 | 36,000000 | 33 - 36 | <input checked="" type="checkbox"/> | RGB 255-128-064 | Solid fill |  |
| 36,000000 | | 36 or more | <input checked="" type="checkbox"/> | Red | Solid fill |  |

Ceiling Planes

På alle **WORK** loftplaner er View Range ændret så komponenterne ses straks de indsættes.



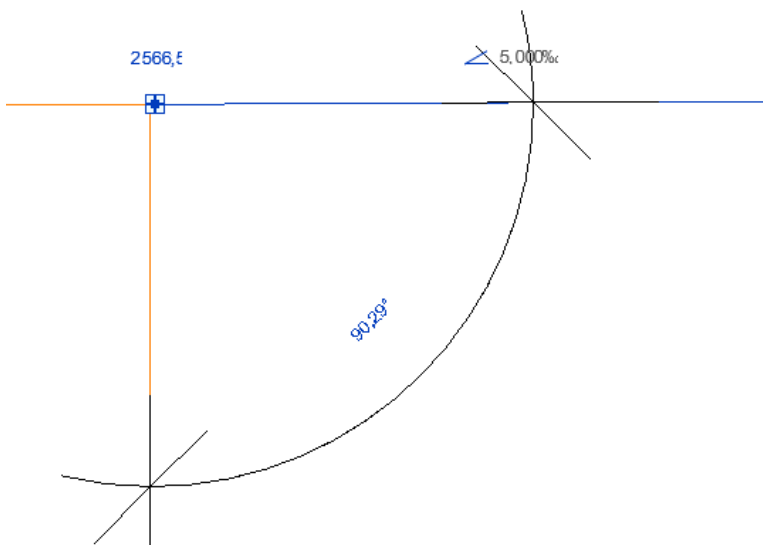
| View Range | | |
|---------------|------------------|-------------|
| Primary Range | | |
| Top: | Level Above | Offset: 0,0 |
| Cut plane: | Associated Level | Offset: 0,0 |
| Bottom: | Associated Level | Offset: 0,0 |
| View Depth | | |
| Level: | Level Above | Offset: 0,0 |

Kanalserier, rørserier og kabelbakker

Rørserier

Stålrør, middelsvære

Der er i en tidligere lokalisering blevet tilføjet en T-fitingfitting – **NTI Fitting – 90 med vrid** - der gør det muligt at tegne og tilslutte sprinkleranlæg med fald.



Denne fitting er fremragende når der modelleres sprinklerrør, men den er ikke så god når Pipe Connection anvendes til at genere rørlayouts.

I denne version af lokaliseringen anvendes i rørtypen **Stålrør, middelsvære** som standard en fitting som er optimal i forbindelse med anvendelse af Pipe Connection til generering af rørlayouts.

Hvis der projekteres sprinkler anbefales det at tilpasse Pipe Typen **Stålrør, middelsvære** så der anvendes T-fittingen **NTI Fitting – 90 med vrid**.

Kabelbakker

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: ALMENFØRINGSVEJ Duplicate...

Rename...

Type Parameters

| Parameter | Value |
|-------------------------------|--|
| Electrical | |
| Bend Radius Multiplier | 1.000000 |
| Electrical Engineering | |
| MC EXE Class | |
| MC IP Class | |
| Fittings | |
| Horizontal Bend | RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC 2 |
| Vertical Inside Bend | RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC 2 |
| Vertical Outside Bend | RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC 2 |
| Tee | RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC 2 |
| Cross | RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC 2 |
| Transition | RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC 2 |
| Union | RS_69_CTF_UN_CHANNEL-UNION_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-UNION_GEN_MC 2 |
| Dimensions | |
| MC Height | |
| MC Length | |
| MC Width | |
| Identity Data | |
| Type Image | |
| Keynote | |
| Model | |
| Manufacturer | MC Cable Tray Series and Fittings |
| Type Comments | |
| URL | |
| Description | ALMENFØRINGSVEJ |
| Assembly Description | |
| Assembly Code | |
| Type Mark | |
| Cost | |
| MC Installation Code Type | |
| MC Material Code | |
| MC National Code | |
| MC Product Variable 1 | |
| MC Product Variable 2 | |
| MC Product Variable 3 | |
| MC Product Variable 4 | |
| MC Product Variable 5 | |
| MC User Code | |

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: GITTERBAKKE Duplicate...

Rename...

Type Parameters

| Parameter | Value |
|-------------------------------|--|
| Electrical | |
| Bend Radius Multiplier | 1.000000 |
| Electrical Engineering | |
| MC EXE Class | |
| MC IP Class | |
| Fittings | |
| Horizontal Bend | RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC 2 |
| Vertical Inside Bend | RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC 2 |
| Vertical Outside Bend | RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC 2 |
| Tee | RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC 2 |
| Cross | RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC 2 |
| Transition | RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC 2 |
| Union | RS_69_CTF_UN_CHANNEL-UNION_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-UNION_GEN_MC 2 |
| Dimensions | |
| MC Height | |
| MC Length | |
| MC Width | |
| Identity Data | |
| Type Image | |
| Keynote | |
| Model | GB |
| Manufacturer | MC Cable Tray Series and Fittings |
| Type Comments | |
| URL | |
| Description | GITTERBAKKE |
| Assembly Description | |
| Assembly Code | |
| Type Mark | |
| Cost | |
| MC Installation Code Type | |
| MC Material Code | GB |
| MC National Code | |
| MC Product Variable 1 | |
| MC Product Variable 2 | |
| MC Product Variable 3 | |
| MC Product Variable 4 | |
| MC Product Variable 5 | |
| MC User Code | GB |

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: KABELBAKKE Duplicate...

Rename...

Type Parameters

| Parameter | Value |
|-------------------------------|---|
| Electrical | |
| Bend Radius Multiplier | 1.000000 |
| Electrical Engineering | |
| MC EXE Class | |
| MC IP Class | |
| Fittings | |
| Horizontal Bend | RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC 2 |
| Vertical Inside Bend | RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC 2 |
| Vertical Outside Bend | RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC 2 |
| Tee | RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC 2 |
| Cross | RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC 2 |
| Transition | RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC 2 |
| Union | RS_69_CTF_UN_CHANNEL-UNION_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-UNION_GEN_MC 2 |
| Dimensions | |
| MC Height | |
| MC Length | |
| MC Width | |
| Identity Data | |
| Type Image | |
| Keynote | |
| Model | KB |
| Manufacturer | MC Cable Tray Series and Fittings |
| Type Comments | |
| URL | |
| Description | KABELBAKKE |
| Assembly Description | |
| Assembly Code | |
| Type Mark | |
| Cost | |
| MC Installation Code Type | |
| MC Material Code | KB |
| MC National Code | |
| MC Product Variable 1 | |
| MC Product Variable 2 | |
| MC Product Variable 3 | |
| MC Product Variable 4 | |
| MC Product Variable 5 | |
| MC User Code | KB |

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: KABELSTIGE Duplicate...

Rename...

Type Parameters

| Parameter | Value |
|-------------------------------|--|
| Electrical | |
| Bend Radius Multiplier | 1.000000 |
| Electrical Engineering | |
| MC EXE Class | |
| MC IP Class | |
| Fittings | |
| Horizontal Bend | RS_69_CTF_UN_LADDER-HORIZ-BEND_GEN_MC; RS_69_CTF_UN_LADDER-HORIZ-BEND_GEN_MC |
| Vertical Inside Bend | RS_69_CTF_UN_LADDER-VERT-INS-BEND-R10_GEN_MC; RS_69_CTF_UN_LADDER-VERT-INS-BEND-R10_GEN_MC |
| Vertical Outside Bend | RS_69_CTF_UN_LADDER-VERT-OUTS-BEND-R10_GEN_MC; RS_69_CTF_UN_LADDER-VERT-OUTS-BEND-R10_GEN_MC |
| Tee | RS_69_CTF_UN_LADDER-HORIZ-TEE_GEN_MC; RS_69_CTF_UN_LADDER-HORIZ-TEE_GEN_MC |
| Cross | RS_69_CTF_UN_LADDER-HORIZ-CROSS_GEN_MC; RS_69_CTF_UN_LADDER-HORIZ-CROSS_GEN_MC |
| Transition | RS_69_CTF_UN_LADDER-REDUCER_GEN_MC; RS_69_CTF_UN_LADDER-REDUCER_GEN_MC |
| Union | RS_69_CTF_UN_LADDER-UNION_GEN_MC; RS_69_CTF_UN_LADDER-UNION_GEN_MC |
| Dimensions | |
| MC Height | |
| MC Length | |
| MC Width | |
| Identity Data | |
| Type Image | |
| Keynote | |
| Model | KS |
| Manufacturer | MC Cable Tray Series and Fittings |
| Type Comments | |
| URL | |
| Description | KABELSTIGE |
| Assembly Description | |
| Assembly Code | |
| Type Mark | |
| Cost | |
| MC Installation Code Type | |
| MC Material Code | KS |
| MC National Code | |
| MC Product Variable 1 | |
| MC Product Variable 2 | |
| MC Product Variable 3 | |
| MC Product Variable 4 | |
| MC Product Variable 5 | |
| MC User Code | KS |

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: xgl_ALMENFØRINGSVEJ Duplicate...

Rename...

Type Parameters

| Parameter | Value |
|-------------------------------|--|
| Electrical | |
| Bend Radius Multiplier | 1.000000 |
| Electrical Engineering | |
| MC EXE Class | |
| MC IP Class | |
| Fittings | |
| Horizontal Bend | M_Channel Horizontal Bend: ALMENFØRINGSVEJ |
| Vertical Inside Bend | M_Channel Vertical Inside Bend: ALMENFØRINGSVEJ |
| Vertical Outside Bend | M_Channel Vertical Outside Bend: ALMENFØRINGSVEJ |
| Tee | M_Channel Horizontal Tee: ALMENFØRINGSVEJ |
| Cross | M_Channel Horizontal Cross: ALMENFØRINGSVEJ |
| Transition | M_Channel Reducer: ALMENFØRINGSVEJ |
| Union | M_Channel Union: ALMENFØRINGSVEJ |
| Dimensions | |
| MC Height | |
| MC Length | |
| MC Width | |
| Identity Data | |
| Type Image | |
| Keynote | |
| Model | |
| Manufacturer | |
| Type Comments | |
| URL | |
| Description | |
| Assembly Description | |
| Assembly Code | |
| Type Mark | |
| Cost | |
| MC Installation Code Type | |
| MC Material Code | |
| MC National Code | |
| MC Product Variable 1 | |
| MC Product Variable 2 | |
| MC Product Variable 3 | |
| MC Product Variable 4 | |
| MC Product Variable 5 | |
| MC User Code | |

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: xgl_GITTERBAKKE Duplicate...

Rename...

Type Parameters

| Parameter | Value |
|-------------------------------|--|
| Electrical | |
| Bend Radius Multiplier | 1.000000 |
| Electrical Engineering | |
| MC EXE Class | |
| MC IP Class | |
| Fittings | |
| Horizontal Bend | M_Channel Horizontal Bend: GITTERBAKKE |
| Vertical Inside Bend | M_Channel Vertical Inside Bend: GITTERBAKKE |
| Vertical Outside Bend | M_Channel Vertical Outside Bend: GITTERBAKKE |
| Tee | |
| Cross | M_Channel Horizontal Tee: GITTERBAKKE |
| Transition | M_Channel Horizontal Cross: GITTERBAKKE |
| Union | M_Channel Reducer: GITTERBAKKE |
| | M_Channel Union: GITTERBAKKE |
| Dimensions | |
| MC Height | |
| MC Length | |
| MC Width | |
| Identity Data | |
| Type Image | |
| Keynote | |
| Model | GB |
| Manufacturer | |
| Type Comments | |
| URL | |
| Description | |
| Assembly Description | |
| Assembly Code | |
| Type Mark | |
| Cost | |
| MC Installation Code Type | |
| MC Material Code | |
| MC National Code | |
| MC Product Variable 1 | |
| MC Product Variable 2 | |
| MC Product Variable 3 | |
| MC Product Variable 4 | |
| MC Product Variable 5 | |
| MC User Code | |

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: xgl_KABELBAKKE Duplicate...

Rename...

Type Parameters

| Parameter | Value |
|-------------------------------|---|
| Electrical | |
| Bend Radius Multiplier | 1.000000 |
| Electrical Engineering | |
| MC EXE Class | |
| MC IP Class | |
| Fittings | |
| Horizontal Bend | M_Channel Horizontal Bend: KABELBAKKE |
| Vertical Inside Bend | M_Channel Vertical Inside Bend: KABELBAKKE |
| Vertical Outside Bend | M_Channel Vertical Outside Bend: KABELBAKKE |
| Tee | M_Channel Horizontal Tee: KABELBAKKE |
| Cross | M_Channel Horizontal Cross: KABELBAKKE |
| Transition | M_Channel Reducer: KABELBAKKE |
| Union | M_Channel Union: KABELBAKKE |
| Dimensions | |
| MC Height | |
| MC Length | |
| MC Width | |
| Identity Data | |
| Type Image | |
| Keynote | |
| Model | KB |
| Manufacturer | |
| Type Comments | |
| URL | |
| Description | |
| Assembly Description | |
| Assembly Code | |
| Type Mark | |
| Cost | |
| MC Installation Code Type | |
| MC Material Code | |
| MC National Code | |
| MC Product Variable 1 | |
| MC Product Variable 2 | |
| MC Product Variable 3 | |
| MC Product Variable 4 | |
| MC Product Variable 5 | |
| MC User Code | |

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: xgl_KABELSTIGE Duplicate...

Rename...

Type Parameters

| Parameter | Value |
|-------------------------------|--|
| Electrical | |
| Bend Radius Multiplier | 1.000000 |
| Electrical Engineering | |
| MC EXE Class | |
| MC IP Class | |
| Fittings | |
| Horizontal Bend | M_Ladder Horizontal Bend: KABELSTIGE |
| Vertical Inside Bend | M_Ladder Vertical Inside Bend: KABELSTIGE |
| Vertical Outside Bend | M_Ladder Vertical Outside Bend: KABELSTIGE |
| Tee | |
| Cross | M_Ladder Horizontal Tee: KABELSTIGE |
| Transition | M_Ladder Horizontal Cross: KABELSTIGE |
| Union | M_Ladder Reducer: KABELSTIGE |
| | M_Ladder Union: KABELSTIGE |
| Dimensions | |
| MC Height | |
| MC Length | |
| MC Width | |
| Identity Data | |
| Type Image | |
| Keynote | |
| Model | KS |
| Manufacturer | |
| Type Comments | |
| URL | |
| Description | |
| Assembly Description | |
| Assembly Code | |
| Type Mark | |
| Cost | |
| MC Installation Code Type | |
| MC Material Code | |
| MC National Code | |
| MC Product Variable 1 | |
| MC Product Variable 2 | |
| MC Product Variable 3 | |
| MC Product Variable 4 | |
| MC Product Variable 5 | |
| MC User Code | |

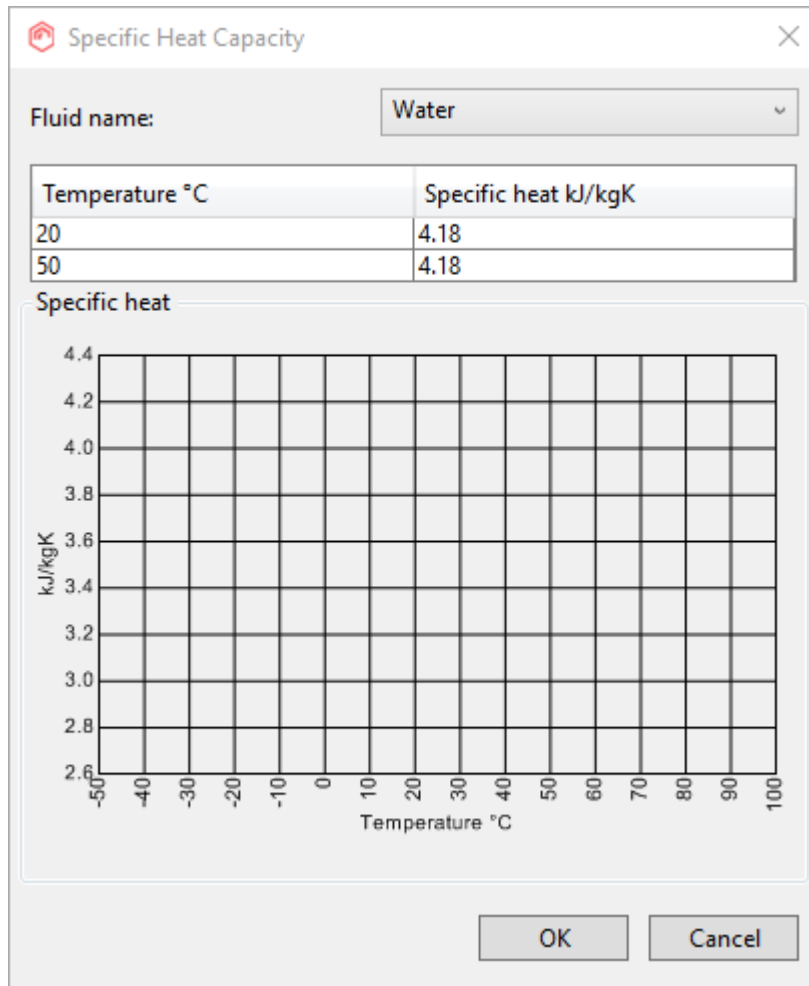
<< Preview OK Cancel Apply

Tag

Diverse tags er opdaterede.

Specific Heat Capacity

Denne er ændret for vand

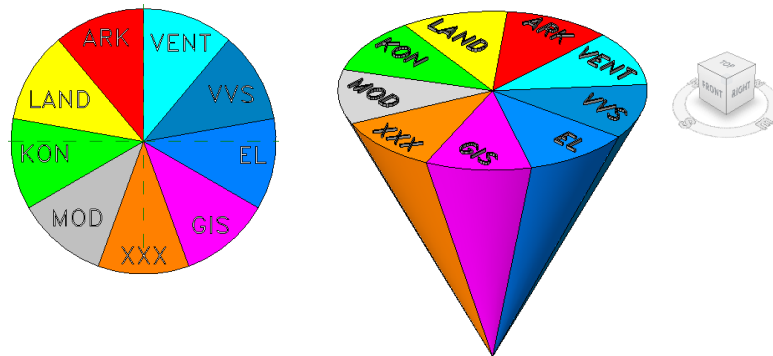


Origin_Marker

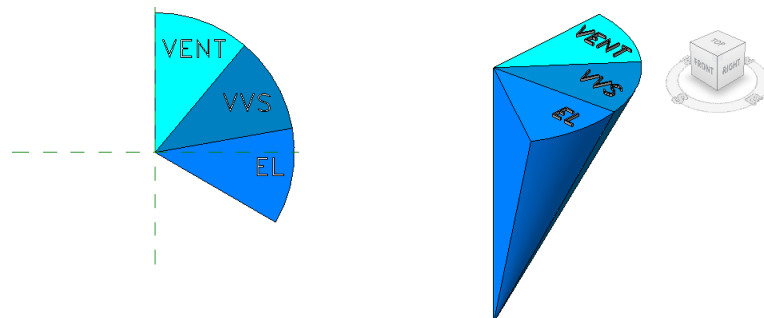
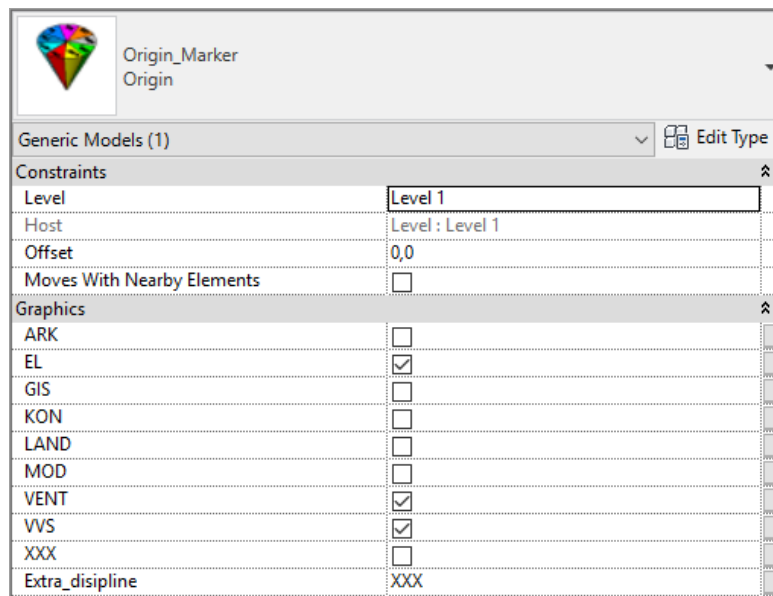
NTI har lavet en Origin_Marker, som angiver Revits Origin.

I plan og 3D ser markeren således ud.

Pilespidsen ligger i Z=0



Således kan hvert faggruppe tænde for deres del og nemt kontrollere at modellerne ligger rigtigt i forhold til hinanden



Stikordsregister

Indholdsfortegnelse; 2

NTI CADcenter A/S; 1