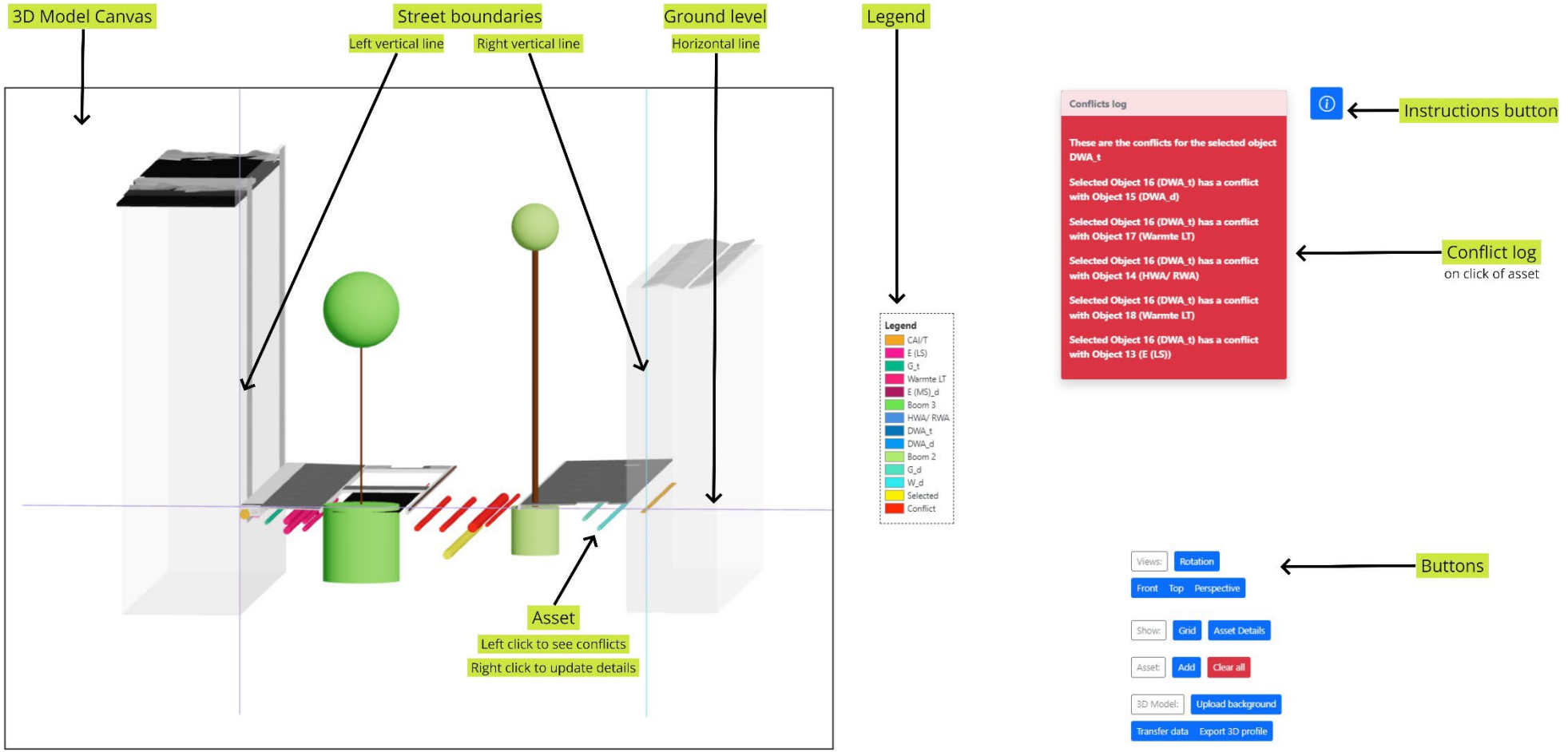
Layout

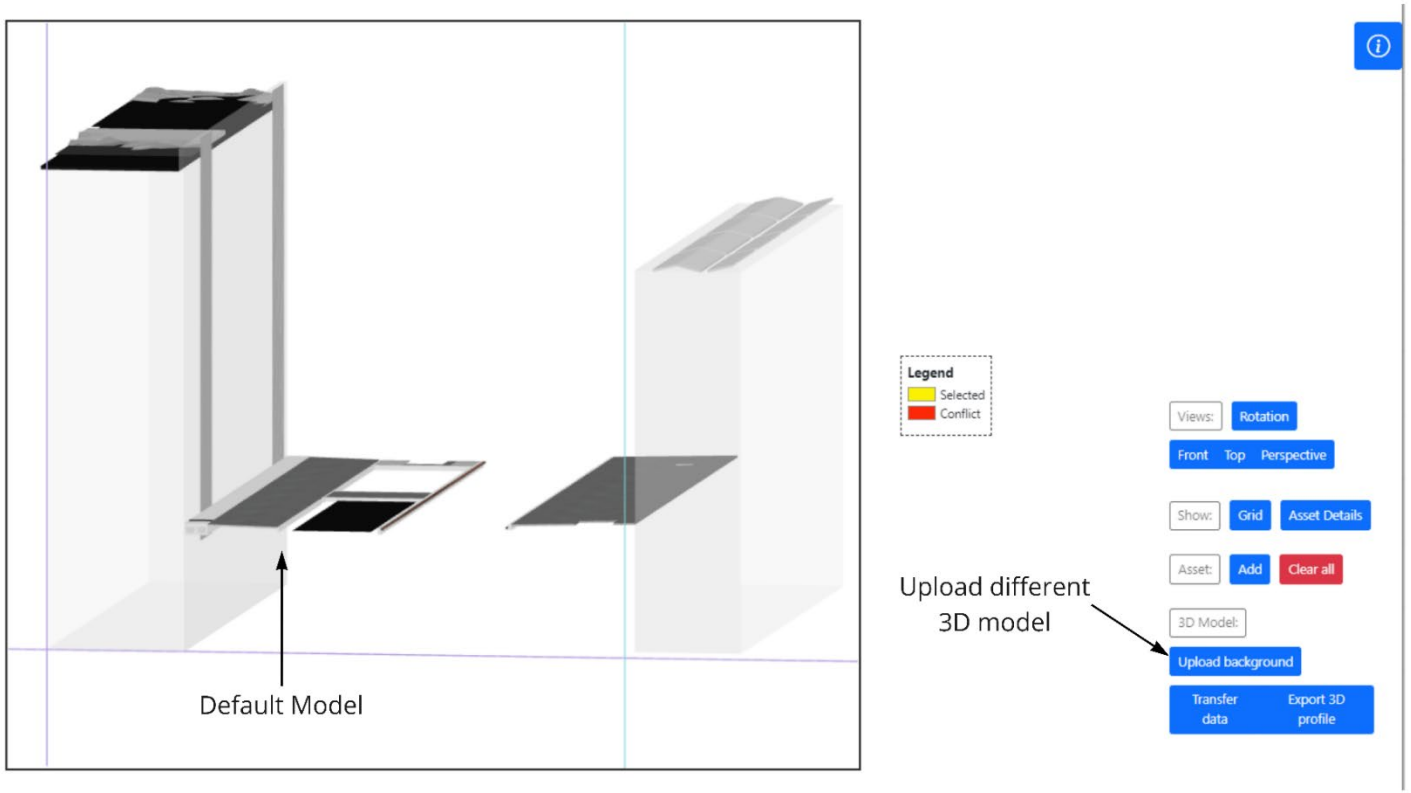

3D Model Canvas
Street boundaries
Left vertical line
Right vertical line
Ground level
Horizontal line
Legend
Asset
Left click to see conflicts
Right click to update details
Legend
CAI/T
E (LS)
G_t
Warmte LT
E (MS)_d
Boom 3
HWA/ RWA
DWA_t
DWA_d
Boom 2
G_d
W_d
Selected
Conflict
Conflicts log
These are the conflicts for the selected object DWA_t
Selected Object 16 (DWA_t) has a conflict with Object 15 (DWA_d)
Selected Object 16 (DWA_t) has a conflict with Object 17 (Warmte LT)
Selected Object 16 (DWA_t) has a conflict with Object 14 (HWA/ RWA)
Selected Object 16 (DWA_t) has a conflict with Object 18 (Warmte LT)
Selected Object 16 (DWA_t) has a conflict with Object 13 (E (LS))
Instructions button
Conflict log
on click of asset
Views:
Rotation
Front
Top
Perspective
Show:
Grid
Asset Details
Asset:
Add
Clear all
3D Model:
Upload background
Transfer data
Export 3D profile
Buttons

Instructions

- All values are in meters
- Use point (.) for decimal values not comma (,)

Steps to use the tool

1. **3D background**: Default 3D model in background is Haaksbergweg profile, to change it click on the Upload 3D Model button and select a 3D file (gltf) from your computer. File size should be max 50 MB.[1]

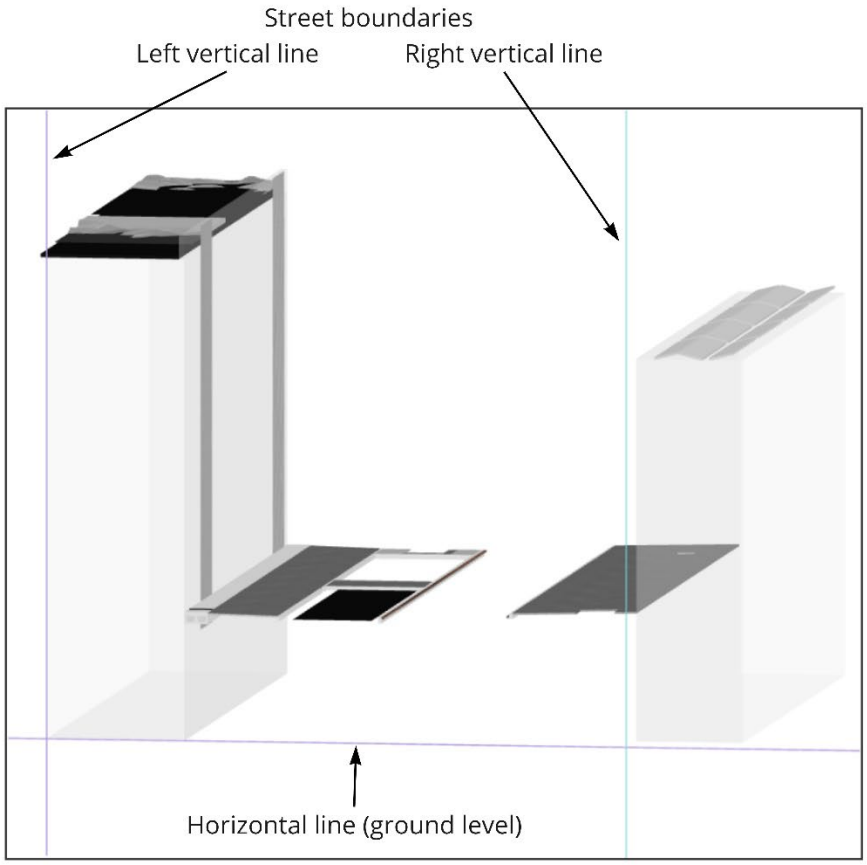


[1] Note that this feature is currently not working the tool (production environment). A workaround for this is update the default background file. More details are in the Maintenance section in “Workaround for upload 3D background”.

2. **Reference line (x and y axis):** To set the reference lines for the ground level and street boundaries, user should get the exact values from the 3D model of street.
    a. Double-clicking on the horizontal line and set the reference ground level (in meters)
        - Note: Ground level is just reference height of the street and is always same for the whole street.

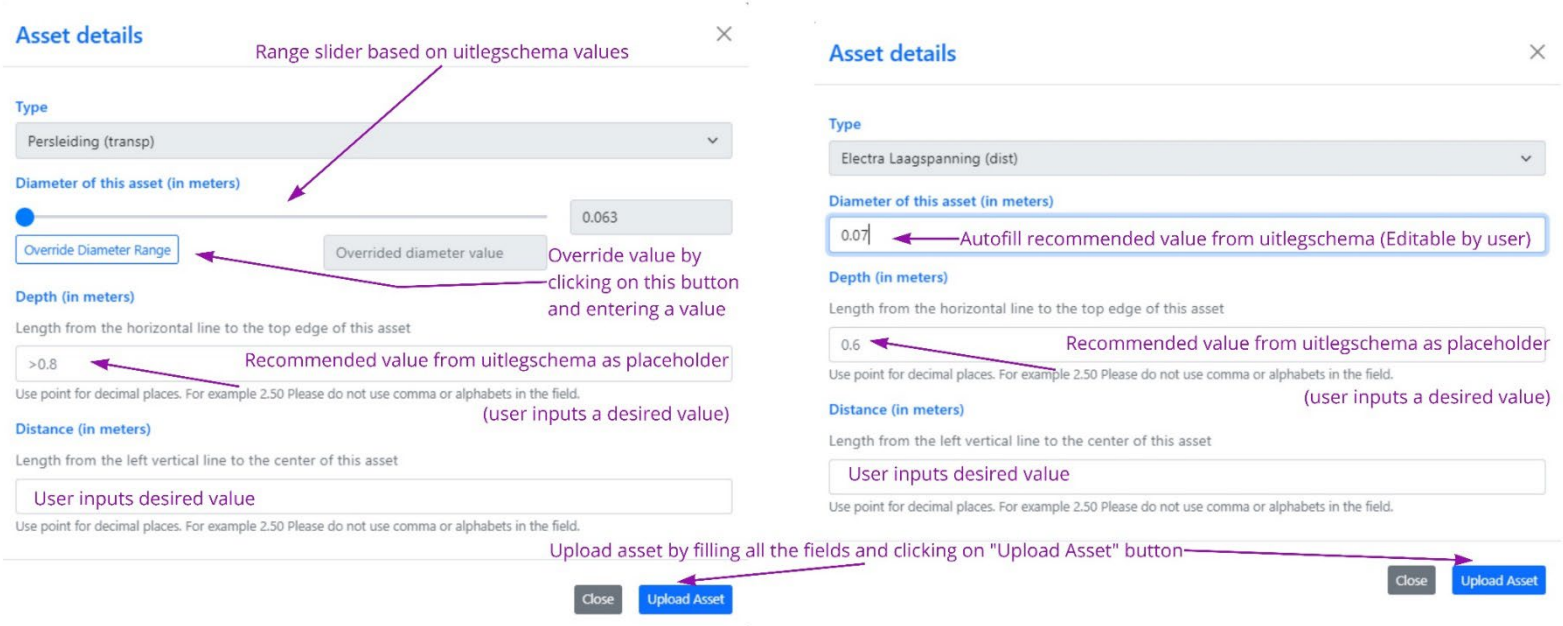
    b. Double-click on the left vertical line (dark blue in color) and set it to the left end of the street. (in meters)
    c. Double-click on the right vertical line (light blue in color) and set it to the right end of the street. (in meters)
        - Note: Street width is the value of the right vertical line minus the left vertical line

Double click on the line to change values



3. **Adding assets:** The different assets can be added to the street profile in the following manner.
    a. Click on the button “Add asset”

    b. Choose the asset type. And then define asset properties



- Recommended diameter from the uitlegschema is shown for the asset. Set the Diameter of the asset. This value can be changed as choice
- Recommended Depth of the asset is shown in a placeholder. You still need to enter the value. The depth is the 3D Model is from the horizontal line to the top edge of the asset.
- Enter the distance of the asset from the left vertical line. In 3D model, this is shown from the left vertical line to the center of the added asset.
- Upload the asset.
- Add all the assets for the profile in a similar manner.

Legenda

* transp -> transport
* dist -> distribution

- CAI/T - CAI/ TV/ Telecom (transp)
- Data – Glasvezel (dist)
- E (LS) - Electra Laagspanning (dist)
- E (MS)_t - Electra Middenspanning (transp)
- E (MS)_d - Electra Middenspanning (dist)
- E (HS) - Electra Hoogspanning (transp)
- DWA_t - DWA Droogweerafvoer (onderheid riool) (transp)
- DWA_d - DWA Droogweerafvoer (riool) (dist)
- DWA+RWA (gemengd)_t - DWA+RWA (gemengd) Droogweerafvoer (onderheid riool) (transp)
- DWA+RWA (gemengd)_d - DWA+RWA (gemengd) Droogweerafvoer (riool) (dist)
- HWA/ RWA - Hemelwaterafvoer (riool) (dist)
- PL – Persleiding (transp)
- Warmte_HT - Warmtenet Hoogtemperatuur (HT) (transp)
- Warmte_MT - Warmtenet Midden temperatuur (MT) (dist)
- Warmte LT - Warmtenet Lage Temperatuur (dist)
- Koude
- Datawarmte
- W_t – Drinkwater (transp)
- W_d - Drinkwater (dist)
- G_t – Gas (transp)
- G_d - Gas (dist)
- O.A.T. - Ondergronds Afval Transport (transp)
- Boom 1 – Tree height more than 15 meters
- Boom 2 - Tree height between 10 and 15 meters
- Boom 3 - Tree height between 6 to 10 meters
- Gebouwen

Uitlegschema used in the tool

afstand/Asset	afstand/Beschrijving	afstand/Categorie	afstand/Color	afstand/Diameter	afstand/Depth	afstand/CAI/TV	afstand/Data	afstand/E (LS)	afstand/E (MS)	afstand/E (HS)	afstand/DWA	afstand/DWA+RWA (gemengd)	afstand/HWA/ RWA	afstand/PL	afstand/Warmte	afstand/Warmte LT	afstand/Koude	afstand/Datawarmte	afstand/W	afstand/G	afstand/Boom 1	afstand/Boom 2	afstand/Boom 3	afstand/Gebouwen
CAI/TV	CAI/ TV/ Telecom	transp	#F5A623	0.08-0.1	0.6	0.5	0	0.5	0.75	2	0.75	0.75	0.75	0.75	0.7	0.7	0.7	0.7	0.5	0.3	2	1.5	1	0.25
Data	Glasvezel	dist	#E5934D	0.04-0.05	0.6/0.5	0.5	0	0.25	0.25	2	0.75	0.75	0.75	0.75	0.7	0.7	0.7	0.7	0.5	0.3	2	1.5	1	0.25
E (LS)	Electra Laagspanning	dist	#F81C94	0.07	0.6	0.5	0.25	0.1	0.1	2	0.75	0.75	0.75	0.75	2.5	2.5	2.5	2.5	0.5	0.3	2	2	1	0.5
E (MS)_t	Electra Middenspanning	transp	#C53B86	0.1	0.9	0.75	0.25	0.1	1	2	0.75	0.75	0.75	0.75	2.5	2.5	2.5	2.5	0.75	0.3	1	2	2	1
E (MS)_d	Electra Middenspanning	dist	#AF1960	0.1	0.7/0.9	0.75	0.25	0.1	0.1	2	0.75	0.75	0.75	0.75	2.5	2.5	2.5	2.5	2	0.3	2	2	1	1
E (HS)	Electra Hoogspanning	transp	#E02E52	0.14	1.2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	5	2	2	2	2
DWA_t	DWA Droogweerafvoer (onderheid riool)	transp	#0674B7	0.3-0.4	>1.8	2.5	2.5	2.5	2.5	3	3	3	3	3	3	3	3	3	3	3	5	4	3	5
DWA_d	DWA Droogweerafvoer (riool)	dist	#0999F4	0.25	0.8	0.75	0.75	0.75	0.75	2	Undefined	Undefined	0.75	0.75	1	0.75	0.75	0.75	1	0.75	2	1.5	1	3
DWA+RWA (gemengd)_t	DWA+RWA (gemengd) Droogweerafvoer (onderheid riool)	transp	#073CAF	0.3-1.8	>1.8	2.5	2.5	2.5	2.5	3	Undefined	Undefined	3	3	3	3	3	3	3	3	5	4	3	5
DWA+RWA (gemengd)_d	DWA+RWA (gemengd) Droogweerafvoer (riool)	dist	#0955F4	0.3-1.8	>0.8	0.75	0.75	0.75	0.75	2	Undefined	Undefined	0.75	0.75	1	0.75	0.75	0.75	1	0.75	2	1.5	1	3
HWA/ RWA	Hemelwaterafvoer (riool)	dist	#4A90E2	0.3-1.5	>0.8	0.75	0.75	0.75	0.75	2	0.75	0.75	Undefined	0.75	1	1	0.75	0.75	0.75	1	1	2	1.5	1	3
PL	Persleiding	transp	#9013FE	0.063-1.8	>0.8	0.75	0.75	0.75	0.75	2	0.75	0.75	0.75	0.75	1	0.75	0.75	0.75	1	1	2	1.5	1	3
Warmte_HT	Warmtenet Hoogtemperatuur (HT)	transp	#A10041	0.5-1	1	0.75	0.75	2.5	2.5	2	1	1	1	1	0.4	0.3	0.3	0.3	1.5	1	2	1.5	1	1.5
Warmte_MT	Warmtenet Midden temperatuur (MT)	dist	#C8125C	0.5-1	0.8	0.7	0.7	2.5	2.5	2	1	1	1	1	0.4	0.3	0.3	0.3	1.5	1	2	1.5	1	1.5
Warmte LT	Warmtenet Lage Temperatuur	dist	#F52378	0.25	0.8/1	0.7	0.7	2.5	2.5	2	0.75	0.75	0.75	0.75	0.3	0.3	0.3	0.3	1.5	1	2	1.5	1	1.5
Koude	Koude - Warmtenet Lage Temperatuur	dist	#bcecf7	0.25	0.8/1	0.7	0.7	2.5	2.5	2	0.75	0.75	0.75	0.75	0.3	0.3	0.3	0.3	1.5	1	2	1.5	1	1.5
Datawarmte	Datawarmte - Warmtenet Lage Temperatuur	dist	#bcf7d5	0.25	0.8/1	0.7	0.7	2.5	2.5	2	0.75	0.75	0.75	0.75	0.3	0.3	0.3	0.3	1.5	1	2	1.5	1	1.5
W_t	Drinkwater	transp	#06AEB0	0.315-1.2	1	1	1	1	2	2	1	1	1	1	2	2	2	2	1	1	2	2	2	3
W_d	Drinkwater	dist	#2FEBED	0.015-0.315	0.8	0.5	0.5	0.5	2	2	1	1	1	1	1.5	1.5	1.5	1.5	0.5	0.5	2	2	2	2
G_t	Gas	transp	#03B78D	0.075-0.4	0.8	0.3	0.3	0.3	0.3	5	1	1	1	1	1	1	1	1	0.3	0.3	2	2	1	2.0/3.5
G_d	Gas	dist	#50E3C2	0.075-0.4	0.8	0.3	0.3	0.3	0.3	5	1	1	1	1	1	1	1	1	0.3	0.3	2	2	1	1.2
O.A.T.	Ondergronds Afval Transport	transp	#EFB17C	0.4	1-1.5	0.75	0.75	0.75	0.75	2	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1	1	2	1.5	1	3
Boom 1	Boom 1		#7ED321	Undefined		2	2	2	1&2	2	5&2	5&2	2	2	2	2	2	2	2&2	2&2	Undefined	Undefined	Undefined	Undefined
Boom 2	Boom 2		#B1EC72	Undefined		1.5	1.5	2	2&2	2	4&1.5	4&1.5	1.5	1.5	1.5	1.5	1.5	1.5	2&2	2&2	Undefined	Undefined	Undefined	Undefined
Boom 3	Boom 3		#6DE54F	Undefined		1	1	1	2&1	2	3&1	3&1	1	1	1	1	1	1	2&2	1&1	Undefined	Undefined	Undefined	Undefined
Gebouwen	Gebouwen		#9B9B9B	Undefined		0.25	0.25	0.5	1&1	2	5&3	5&3	3	3	1.5	1.5	1.5	1.5	3&2	2[3.5&1.2	Undefined	Undefined	Undefined	Undefined

Original uitlegschema

Tabel [voorstel]
uitlegschema

versie
16-03-2021

Asset	Beschrijving		Afstand tussen K&L												Afstand tussen bomen			Afstand van gebouwen [2]
			CAI/T	Data	E (LS)	E (MS)	E (HS)	DWA	HWA/ RWA	PL	Warmte	Warmte LT	W	G	Boom 1 [3]	Boom 2 [3]	Boom 3 [3]	
CAI/T	CAI/ TV/ Telecom	transp	0,50m[4]	0,00m	0,50m	0,75m	2,00m	0,75m	0,75m	0,75m	0,70m[4]	0,70m[4]	0,5m	0,30m	2,00m[4]	1,50m[4]	1,00m[4]	0,25/ 0,50m
		bron	Leidraad K&L A'dam	Leidraad K&L A'dam	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Leidraad K&L A'dam	Leidraad K&L A'dam	Waternet KK 12-20	Liander 14-01-21	Leidraad K&L A'dam	Leidraad K&L A'dam	Leidraad K&L A'dam	Gem A'dam (IB)
Data	Glasvezel	dist.	0,50m[4]	0,00m	0,25m	0,25m	2,00m	0,75m	0,75m	0,75m	0,70m[4]	0,70m[4]	0,5m	0,30m	2,00m[4]	1,50m[4]	1,00m[4]	0,25/ 0,50m
		bron	Leidraad K&L A'dam	Leidraad K&L A'dam	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Leidraad K&L A'dam	Leidraad K&L A'dam	Waternet KK 12-20	Liander 14-01-21	Leidraad K&L A'dam	Leidraad K&L A'dam	Leidraad K&L A'dam	Gem A'dam (IB)
E (LS)[1]	Electra Laagspanning	dist.	0,50m	0,25m	0,10 - 0,15m	0,10m	2,00m	0,75m	0,75m	0,75m	2,50m	2,50m	0,5m	0,30m	2,00m	2,00m	1,00m	0,50m
		bron	Liander 14-01-21	Liander 14-01-21	Liander 17-03-21	Liander 17-03-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 17-03-21	Liander 17-03-21	Waternet KK 12-20	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21
E (MS)[1]	Electra Middenspanning	transp	0,75m	0,25m	0,10m	1,00m[10]	2,00m	0,75m	0,75m	0,75m	2,50m	2,50m	0,75m	0,30m	1,00m	2,00m	2,00m	1,00m
		bron	Liander 14-01-21	Liander 14-01-21	Liander 17-03-21	Liander 17-03-21	Liander 14-01-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Liander 17-03-21	Liander 17-03-21	Waternet KK 12-20	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21
		dist.	0,75m	0,25m	0,10m	0,10m[9]	2,00m	0,75m	0,75m	0,75m	2,50m	2,50m	2,00m	0,30m	2,00m	2,00m	1,00m	1,00m
		bron	Liander 14-01-21	Liander 14-01-21	Liander 17-03-21	Liander 17-03-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 17-03-21	Liander 17-03-21	Waternet KK 02-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21
E (HS)[1]	Electra Hoogspanning	transp	2,00m	2,00m	2,00m	2,00m	3,00m[10]	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	5,00m	2,00m	2,00m	2,00m	2,00m
		bron	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 17-03-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 01-02-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 01-02-21
DWA	Droogweerafvoer (onderheid riool)	transp	2,50m	2,50m	2,50m	2,50m	3,00m	3,00m[8]	3,00m	3,00m	3,00m	3,00m	3,00m	3,00m	5,00m	4,00m	3,00m	5,00 m
		bron	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
	Droogweerafvoer (riool)	dist.	0,75m	0,75m	0,75m	0,75m	2,00m	-	0,75m	0,75m	1,00m	0,75m	1,00m	0,75m	2,00m	1,50m	1,00m	3,00 m
		bron	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
DWA+ RWA (gemengd)	Droogweerafvoer (onderheid riool)	transp	2,50m	2,50m	2,50m	2,50m	3,00m	-	3,00m	3,00m	3,00m	3,00m	3,00m	3,00m	5,00m	4,00m	3,00m	5,00 m
		bron	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
	Droogweerafvoer (riool)	dist.	0,75m	0,75m	0,75m	0,75m	2,00m	-	0,75m	0,75m	1,00m	0,75m	1,00m	0,75m	2,00m	1,50m	1,00m	3,00 m
		bron	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
HWA/ RWA	Hemelwaterafvoer (riool)	dist.	0,75m	0,75m	0,75m	0,75m	2,00m	0,75	-	0,75m	1,00m	0,75m	1,00m	1,00m	2,00m	1,50m	1,00m	3,00m
		bron	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Liander 14-01-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
PL	Persleiding	transp	0,75m	0,75m	0,75m	0,75m	2,00m	0,75m	0,75m	0,75m	1,00m	0,75m	1,00m	1,00m	2,00m	1,50m	1,00m	3,00m
		bron	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Liander 14-01-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
Warmte	Warmtenet Hoogtemperatuur (HT)	transp	0,75m	0,75m	2,50m	2,50m	2,00m	1,00m	1,00m	1,00m	0,40m [5]	0,30m	1,50m[7]	1,00m	2,00m[4]	1,50m[4]	1,00m[4]	1,50m
		bron	Gemeente Almere	Gemeente Almere	Liander 17-03-21	Liander 17-03-21	Liander 14-01-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Warmte Bedrijf	Gemeente A'dam	Waternet KK 12-20	Liander 14-01-21	Leidraad K&L A'dam	Leidraad K&L A'dam	Leidraad K&L A'dam	Gemeente Almere
	Midden temperatuur (MT)	dist.	0,70m[4]	0,70m[4]	2,50m	2,50m	2,00m	1,00m	1,00m	1,00m	0,40m [5]	0,30m	1,50m[7]	1,00m	2,00m[4]	1,50m[4]	1,00m[4]	1,50m
		bron	Leidraad K&L A'dam	Leidraad K&L A'dam	Liander 17-03-21	Liander 17-03-21	Liander 14-01-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Warmte Bedrijf	Gemeente A'dam	Waternet KK 12-20	Liander 14-01-21	Leidraad K&L A'dam	Leidraad K&L A'dam	Leidraad K&L A'dam	Gemeente Almere
Warmte LT	Warmtenet Lage Temperatuur	dist.	0,70m[4]	0,70m[4]	2,50m	2,50m	2,00m	0,75m	0,75m	0,75m	0,30m	0,30m	1,50m[7]	1,00m	2,00m[4]	1,50m[4]	1,00m[4]	1,50m
		bron	Leidraad K&L A'dam	Leidraad K&L A'dam	Liander 17-03-21	Liander 17-03-21	Liander 14-01-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Gemeente A'dam	Gemeente A'dam	Waternet KK 12-20	Liander 14-01-21	Leidraad K&L A'dam	Leidraad K&L A'dam	Leidraad K&L A'dam	Gemeente Almere
W	Drinkwater	transp	1,00m	1,00m	1,00m	2,00m	2,00m	1,00m	1,00m	1,00m	2,00m[7]	2,00m[7]	1,00m	1,00m	2,00m	2,00m	2,00m	3,00m
		bron	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
		dist.	0,5m	0,5m	0,5m	2,00m	2,00m	1,00m	1,00m	1,00m	1,50m[7]	1,50m[7]	0,5m	0,5m	2,00m	2,00m	2,00m	2,00m
		bron	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 02-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 02-21
G	Gas	transp	0,30m	0,30m	0,30m	0,30m	5,00m	1,00m	1,00m	1,00m	1,00m	1,00m	0,30m	0,30m	2,00m	2,0m	1,00m	<200mm = 2,0 m >200mm = 3,5m
		bron	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21	Liander 09-02-21
		dist.	0,30m	0,30m	0,30m	0,30m	5,00m	1,00m	1,00m	1,00m	1,00m	1,00m	0,30m	0,30m	2,00m	2,00m	1,00m	1,20m
		bron	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21
O.A.T.	Ondergronds Afval Transport	transp	0,75m [6]	0,75m [6]	0,75m [6]	0,75m [6]	2,00m [6]	0,75m [6]	0,75m [6]	0,75m [6]	0,75m [6]	0,75m [6]	1,00m [6]	1,00m [6]	2,00m[6]	1,50m[6]	1,00m[6]	3,00m [6]
		bron	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Liander 14-01-21	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
Asset	Beschrijving		CAI/T	Data	E (LS)	E (MS)	E (HS)	DWA	HWA/ RWA	PL	Warmte	Warmte LT	W	G	Boom 1 [3]	Boom 2 [3]	Boom 3 [3]	Afstand van gebouwen [2]
			Afstand tussen K&L												Afstand tussen bomen			

1. Een elektra tracé bestaat over het algemeen uit meerdere kabels. Tot soms wel meer dan 10 kabels

2. Voor vrij-verval, maximaal 15m van de perceelgrens

3. Volgens de Leidraad K&L IB (Gemeente Amsterdam) de bomen categories: 1 hoogte >15m; 2 hoogte 10-15m; 3 hoogte 6-10m

4. Afstand hart op hart (h.o.h.)

5. Leidingen diameter < 0,15m; afstand = 0,20m. Leidingen diameter > 0,15m; afstand = 0,40m. Afstand tussen buizen, van rand tot rand.

6. Gebaseerd op persriool-metingen

7. De vermelde afstanden kunnen wellicht nog gaan wijzigen. Dit is afhankelijk van de uitkomsten uit het lopende TKI onderzoek binnen Waternet

8. Indien niet mogelijk, kan deze er dan boven worden geplaatst, dan is de horizontale afstand 0

9. In specifieke situaties kan van deze afstand afgeweken worden Bijvoorbeeld ingeval van veiligheid of wederzijdse beinvloeding van thermische, elektrische en/of mechanische aard.

10. Bij voorkeur in gescheiden tracés. In specifieke situaties kan van deze afstand afgeweken worden Bijvoorbeeld ingeval van veiligheid of wederzijdse beinvloeding van thermische, elektrische en/of mechanische aard.

Tabel [voorstel]
uitlegschema

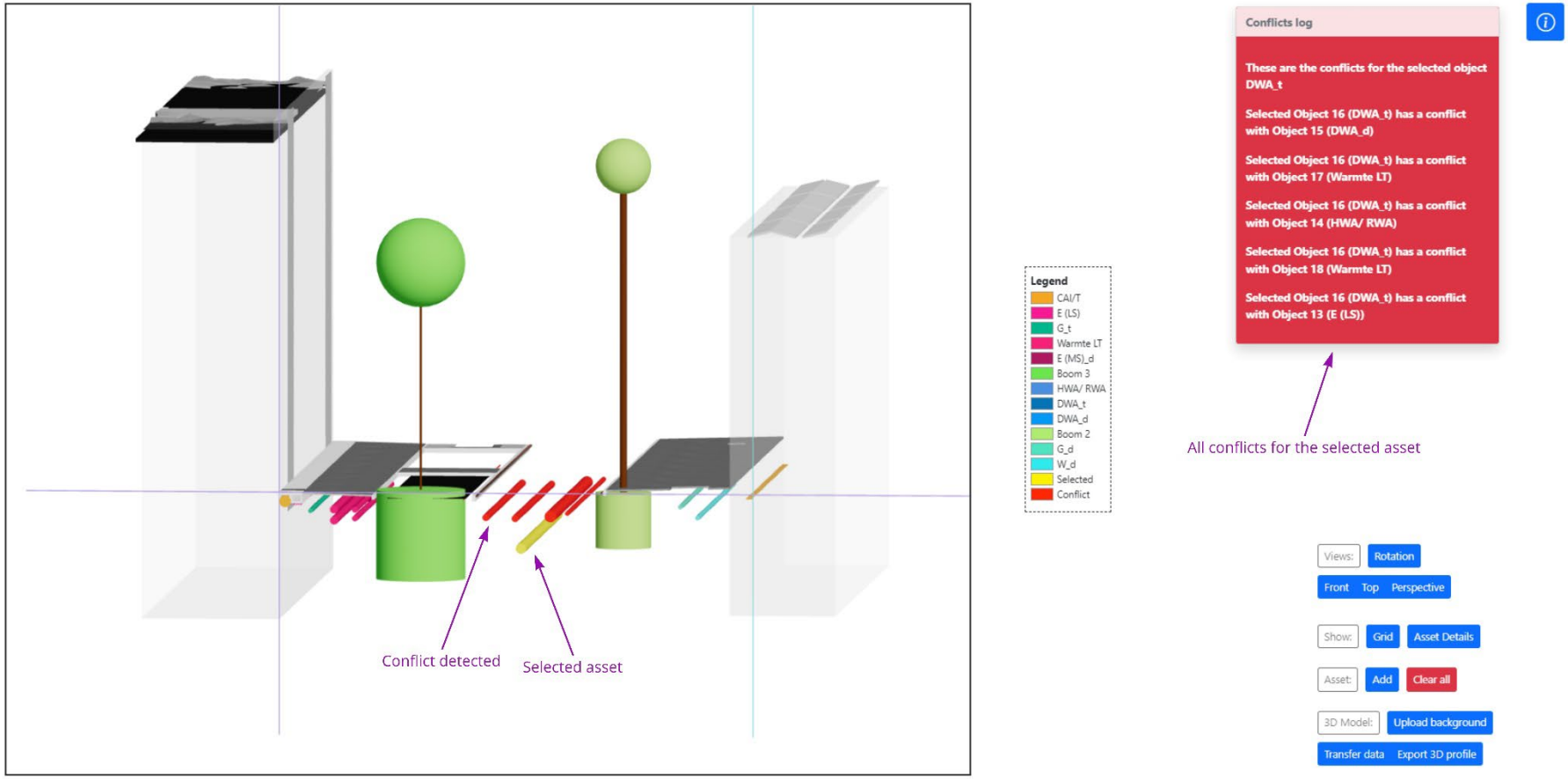
versie
16-03-2021

	Beschrijving	Diameter			Dekking (depth)			vrij werkruimte 1		
		transp.	dist.	huisaansl.	transp.	dist.	huisaansl.	transp.	dist.	huisaansl.
CAI/T	CAI/ TV/ Telecom	80 - 100mm	25 - 50mm	-	0,60m	0,60/0,50m	0,50m	0,30m	0,30m	0,30m
bron		Gemeente A'dam Elzenaar 12-20	Gemeente A'dam Elzenaar 12-20	-	NEN 7171-1/ Gemeente R'dam/	Gemeente A'dam (WIOR)	Gemeente A'dam (WIOR)	NEN 7171-1	NEN 7171-1	NEN 7171-1
Data	Glasvezel	40mm-50mm	40mm-50mm	-	0,60m	0,60/0,50m	0,50m	0,30m	0,30m	0,30m
bron		NEN 7171-1	NEN 7171-1	-	NEN 7171-1/ Gemeente R'dam	Gemeente A'dam (WIOR)	Gemeente A'dam (WIOR)	NEN 7171-1	NEN 7171-1	NEN 7171-1
E (LS)	Electra Laagspanning	-	70mm	70mm	-	0,60m	0,50m	-	0,25m	0,25m
bron		-	Liander 14-01-21	Liander 14-01-21	-	Liander 14-01-21	Liander 14-01-21	-	Liander 14-01-21	Liander 14-01-21
E (MS)	Electra Middenspanning	100mm	100mm	100mm	0,90m	0,70/ 0,90m	0,70/ 0,90m	0,25m	0,25m	0,25m
bron		Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 17-03-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21
E (HS)	Electra Hoogspanning	140mm	-	-	1,20m	-	-	2,00m	-	-
bron		Liander 17-03-21	-	-	Liander 01-02-21	-	-	Liander 01-02-21	-	-
DWA	Droogweerafvoer (riool)	0,30-0.40m	0,25 m	125 - 160mm	>1,80m	0,80m	0,34m	2,00m	0,50m	0,50m
bron		Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
DWA + HWA		0,30-1,80m	0,30-1,80m	125 - 160mm	>1,80m	>0,80m	125 - 160mm	2,00m	0,50m	125 - 160mm
bron		Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
HWA/ RWA	Hemelwaterafvoer (riool)	-	0,30-1,50m	125 - 160mm	-	>0,80m	0,34m	-	0,50m	0,50m
bron		Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
PL	Persleiding	0.063-1,80	-	-	>0,80m	-	-	0,50m	-	-
bron		Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
Warmte HT/ MT	Warmtenet Hoge/ Midden temperatuur	500-1000mm	500-1000mm	<160mm	1,00m	0,80 m	0,50m	0,50m	0,50m	0,50m
bron		Warmte Bedrijf	Warmte Bedrijf	Rotterdam	Gemeente Almere/ Gemeente R'dam	NEN 7171-1	Gemeente A'dam (WIOR)	Warmte Bedrijf	Warmte Bedrijf	Warmte Bedrijf
Warmte LT	Warmtenet Lage Temperatuur	250-400mm	250mm		0,80m/ 1,00m	0,80m/ 1,00m	0,50m	0,30m	0,30m	0,30m
bron		Gemeente A'dam	Gemeente A'dam		Gemeente A'dam	Gemeente A'dam	Gemeente A'dam (WIOR)	Gemeente A'dam	Gemeente A'dam	Gemeente A'dam
W	Drinkwater	0,315-1,20m	0,015-0,315m	0,015-0,15m	1,00m	0,80m	0,80m	1,50m	0,5m	0,50m
bron		Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20	Waternet KK 12-20
G	Gas	75-400mm	75- 400mm	32-63mm	0,80m	0,80m	0,50m	0,25m	0,25m	0,25m
bron		Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21	Liander 14-01-21
O.A.T.	Ondergronds Afval Transport	400mm	400mm	400mm	1m to 1,5m	2,6 - 3,2m	2,6 - 3,2m	0,50m ^{2}	0,50m ^{2}	0,50m ^{2}
bron		Leverancier	Adivisie Bureau	Adivisie Bureau	Leverancier	Adivisie Bureau	Adivisie Bureau	NEN 7171-1	NEN 7171-1	NEN 7171-1

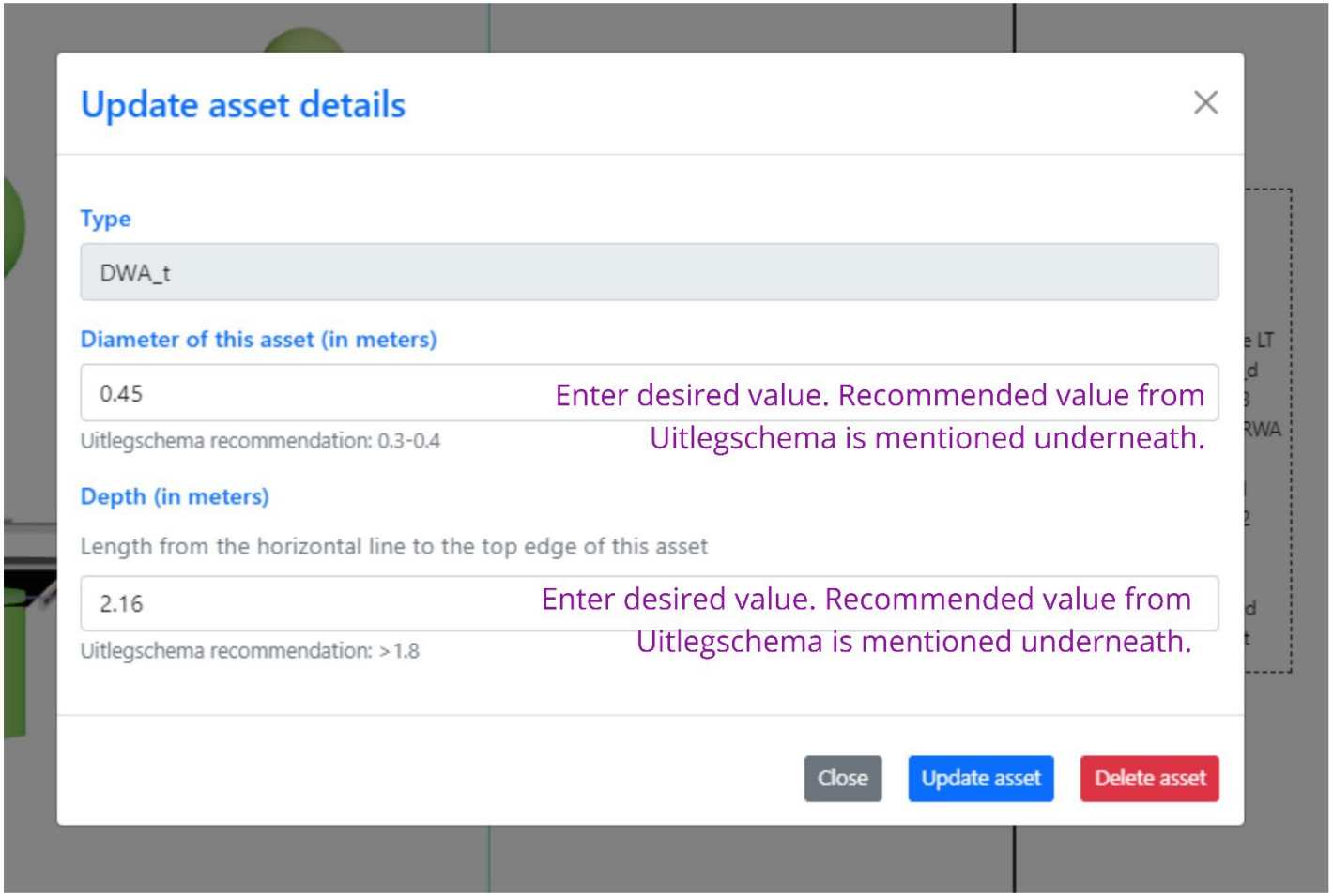
1. bijde zijden

2. Gebaseerd op persriool-metingen

4. **Conflict detection:** To check for conflicts in the profile, you need to check the conflicts for each asset.
    a. Click on an asset to see the conflicts for the asset
        - The selected asset is in yellow color
        - The conflicted assets are shown in red color
        - Upon clicking on an asset, on the top right, the name of the conflicting assets are shown.

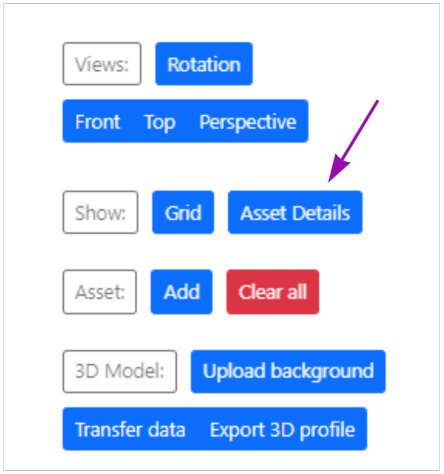


5. **Update diameter and depth of the asset in profile:** To change the diameter or depth of the asset, right click on the asset and change the respective values.

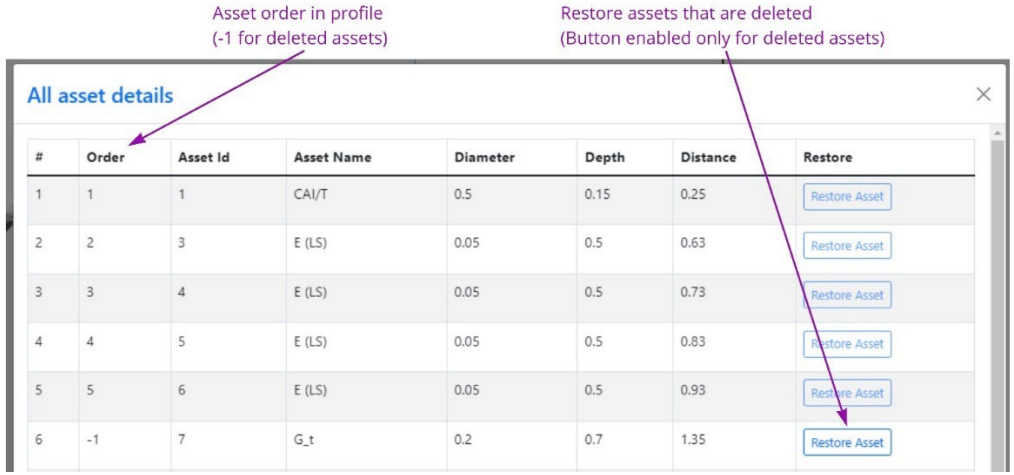


6. **Delete asset:** To remove an asset from the profile, right-click on the asset and choose “Delete Asset”

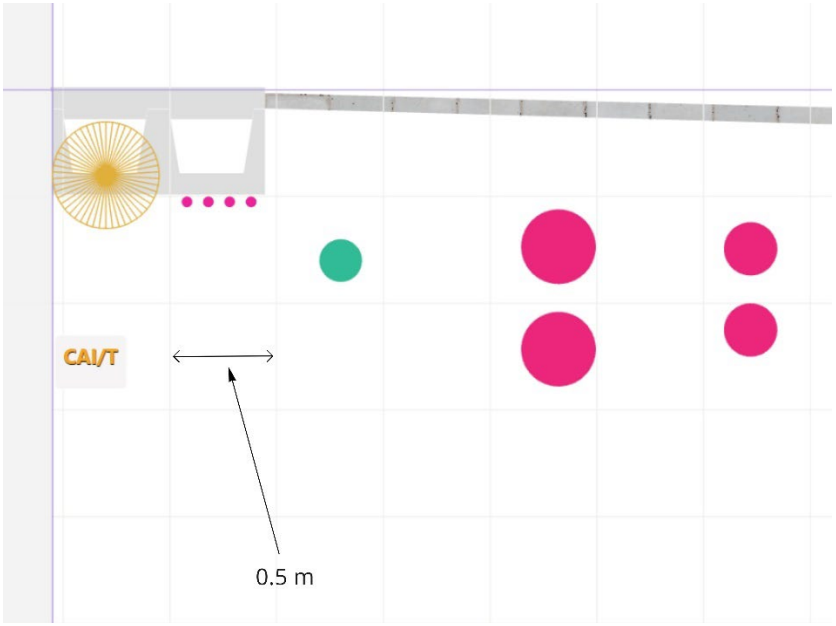
7. **Drag and drop:** To change the position (distance) of the asset, drag the asset (left click and hold the mouse button) and drop it in a desired position.
8. **Asset Details:** To see a list of all the assets (existing or deleted), click on the “Asset Details” button.

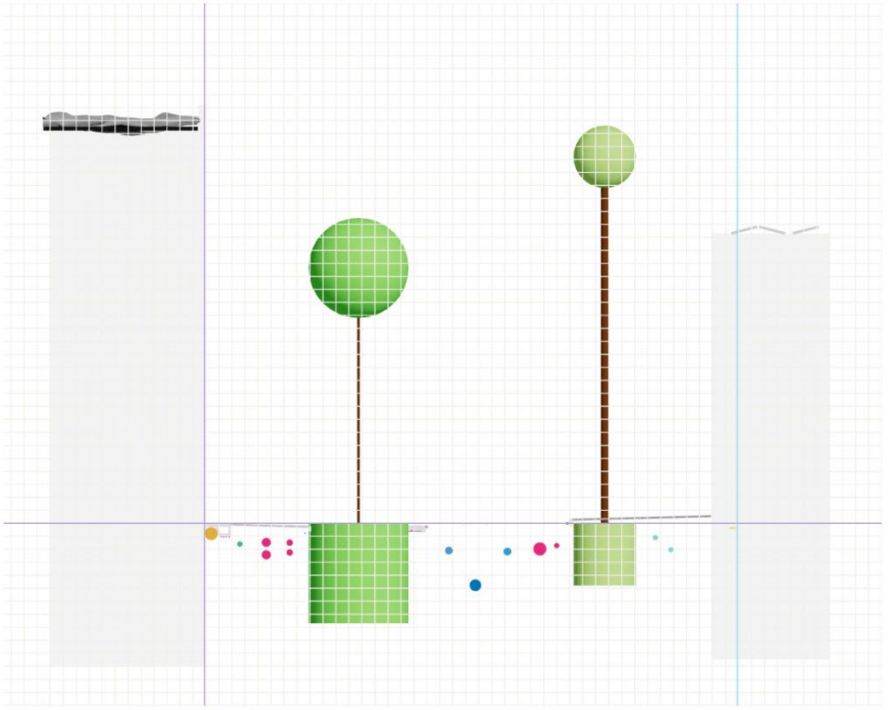


9. **Restore asset:** A deleted asset can be seen at the bottom of the list upon clicking on “Asset Details”. To restore the asset, click on “Restore Asset” button. Once you restore an asset, the asset will reappear in the 3D model based on the previous data (diameter, depth, distance)

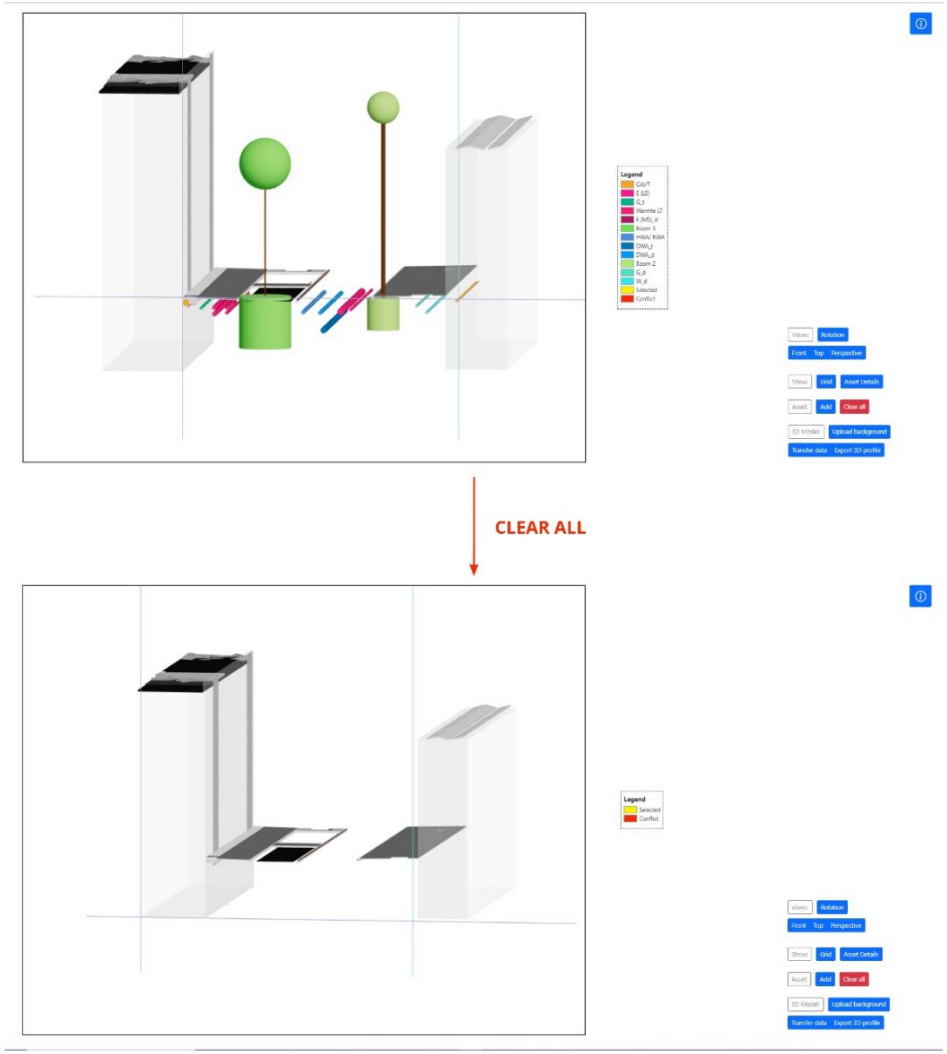


10. **Grid:** Click on “View Grid” button to see the grid in the model. Each grid is 0.5 meter size and can be used to estimate the length in the profile.
    - Note: It is best to use Grid in Front view



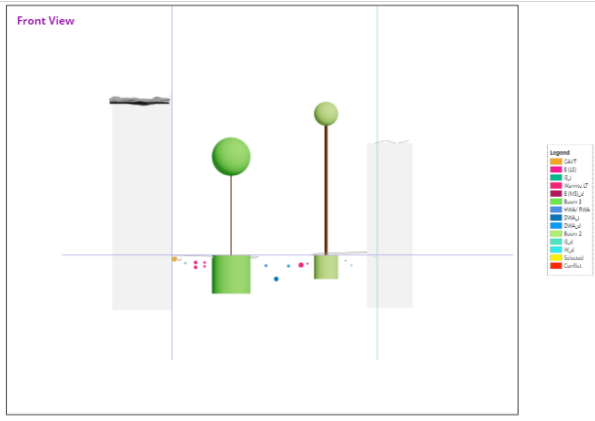


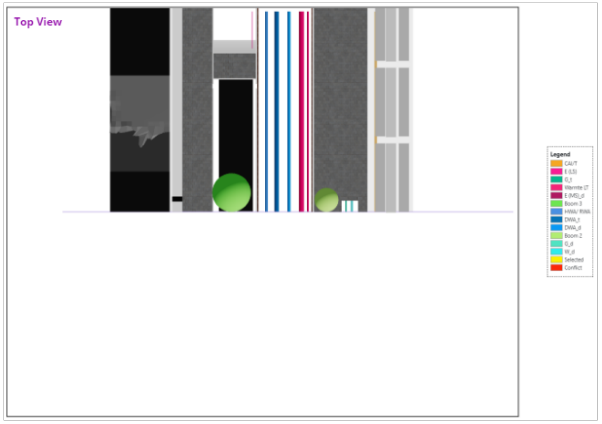
11. **Reset profile:** Use the "Clear all" button to reset the profile and remove all the added assets, reset the ground level, street boundaries and view settings. Once cleared, any data cannot be restored.

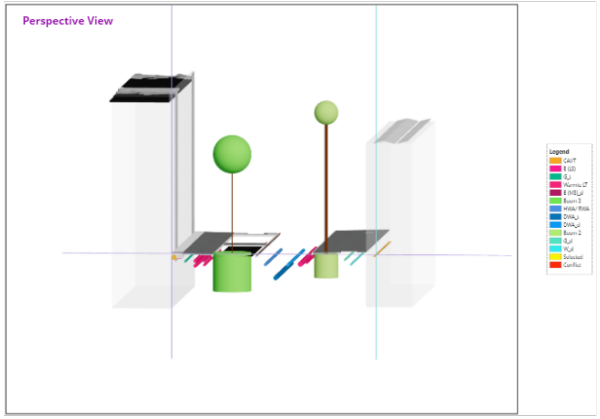


Views

1. To enable rotation of the view, click on “View rotation button”. Left click the mouse button and move around to rotate. You can right click on the mouse and drag to move around in the 3D model, in x or y axis.
2. To save the view settings, click “Alt + R”.
3. Choose the different views to select the Front View, Top View or Perspective View button.
4. The saved view settings are reflected in Perspective View.





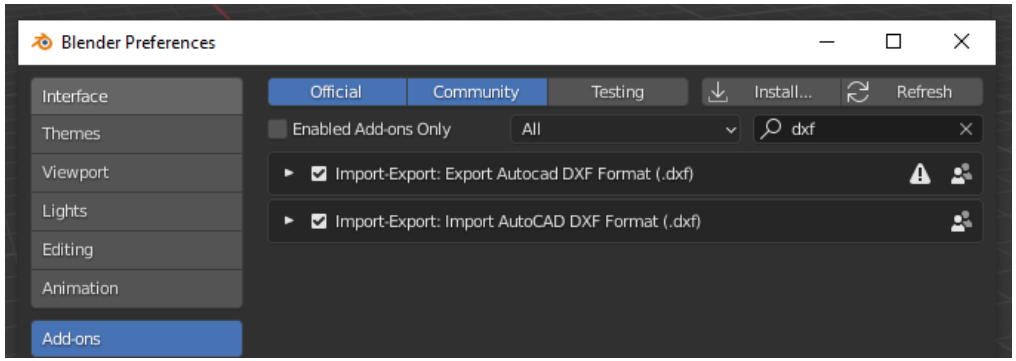


Export Model – Click on Export 3D Model button to save a copy of the profile in your computer. This is saved in GLTF format.

To convert GLTF to DXF format or vice-a-versa, use Blender Add-on. (https://all3dp.com/2/stl-to-dxf-how-to-convert-stl-files-to-dxf-autocad/).

Steps to install the add-on to convert GLTF to DXF or vice a versa in Blender:

1. Open Blender, and go to Edit -> Preferences
2. Choose Add-Ons
3. Search “DXF” using the search bar
4. Install the two add-ons for import and export of DXF files



Steps to convert GLTF to DXF:

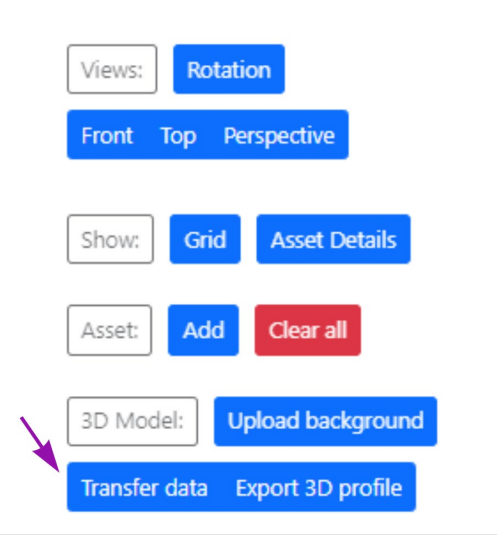
1. Open Blender, go to File -> Import
2. Import the GLTF file (gltf 2.0) in Blender
3. Go to File- > Export
4. And export to AutoCAD DXF

Steps to convert DXF to GLTF:

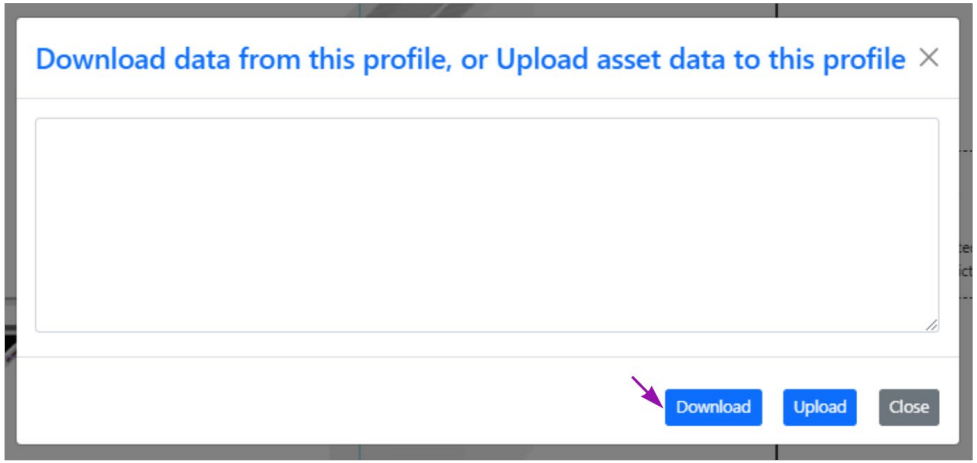
1. Open Blender, go to File -> Import
2. Import the AutoCAD DXF file in Blender
3. Go to File- > Export
4. And export to GLTF (gltf 2.0)

Transfer profile to another computer or browser

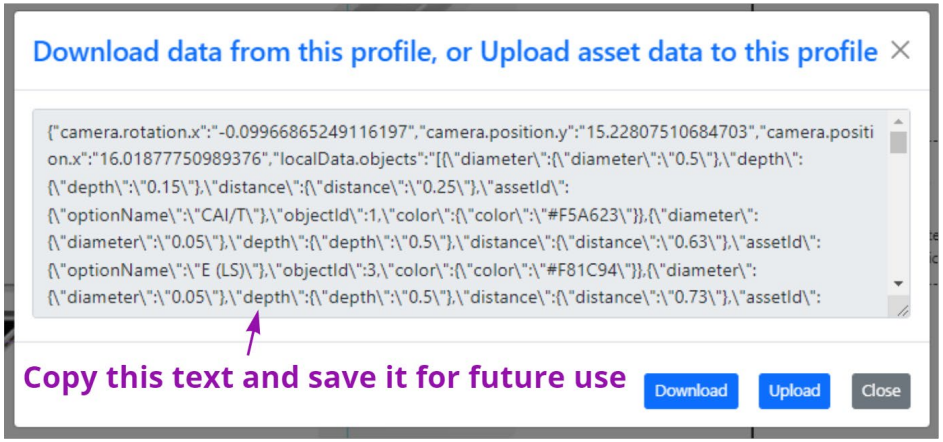
1. On a browser where a profile is built, choose “Transfer data” button.



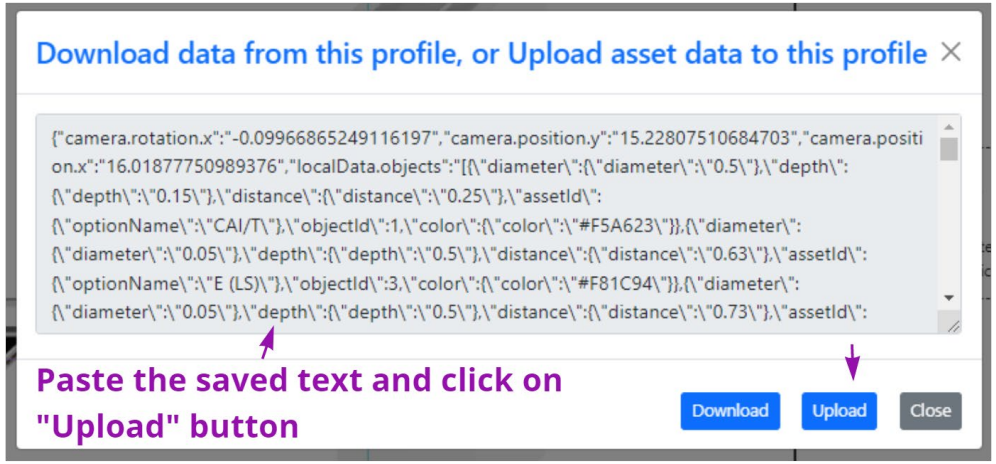
2. Next, click on “Download”



3. Copy the data shown in the textbox.



4. Go to another browser or computer, open the web-app. Again, choose the “Transfer data” button (Image in Step 1).
5. Paste the copied data to the empty textbox and click “Upload”.



6. The profile is transferred to the new computer/browser.