

SitaDSS assembly guidelines

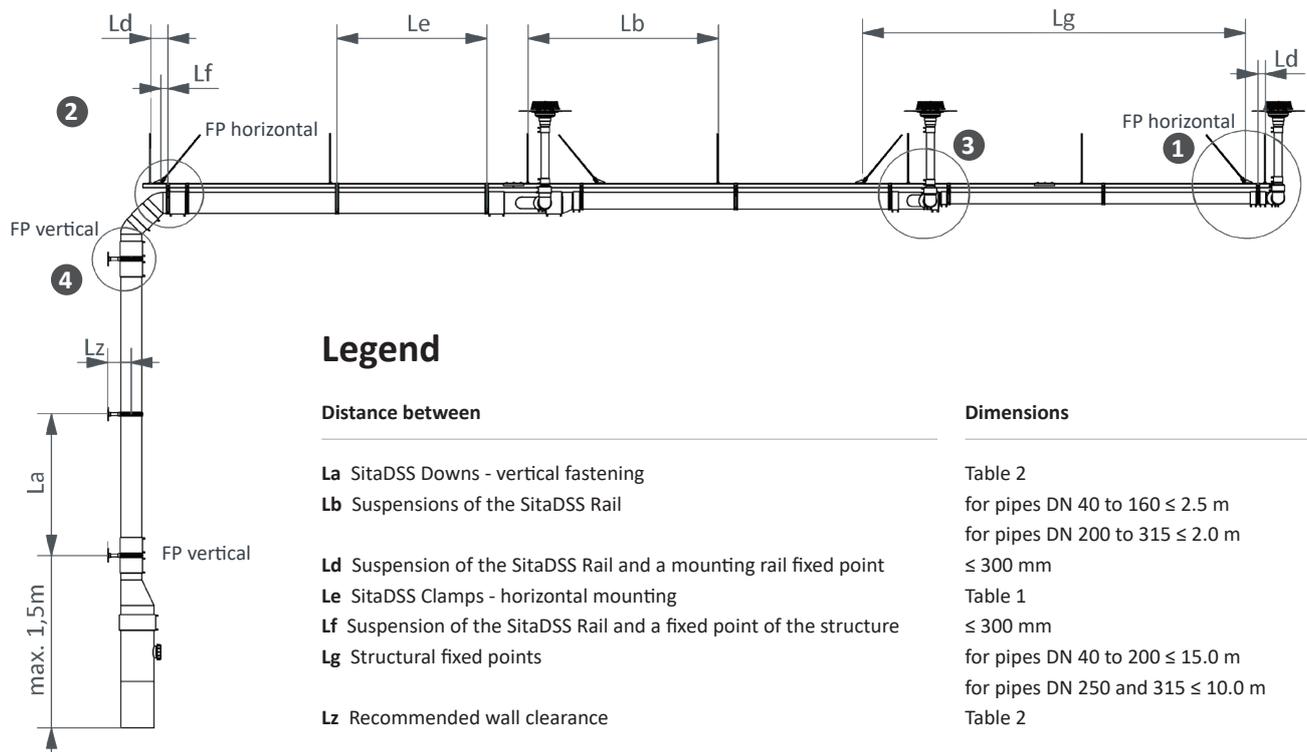
PE-pipe fixing rule

PE pipelines ≤ 1.0 m are installed without individual suspension.

PE pipes from 1.0 to 3.0 m are suspended with SitaDSS Single, see table 1 for the clamp spacing.

PE pipes ≥ 3.0 m are mounted with an accompanying rail (SitaDSS Rail). For pipe clamp spacing of the SitaDSS Clamp, see also table 1.

The thermal length changes in the vertical and horizontal pipe lines are stopped by the formation of fixed points at the beginning and end of the respective line.



General rule:

The connection underneath the rainwater outlet and the lower outlet bend at the emergency drainage downpipe to the outside is installed by use of a 88.5° bend, all other changes of direction are made with 45° bends.

Table 1: (distance Le see chart)

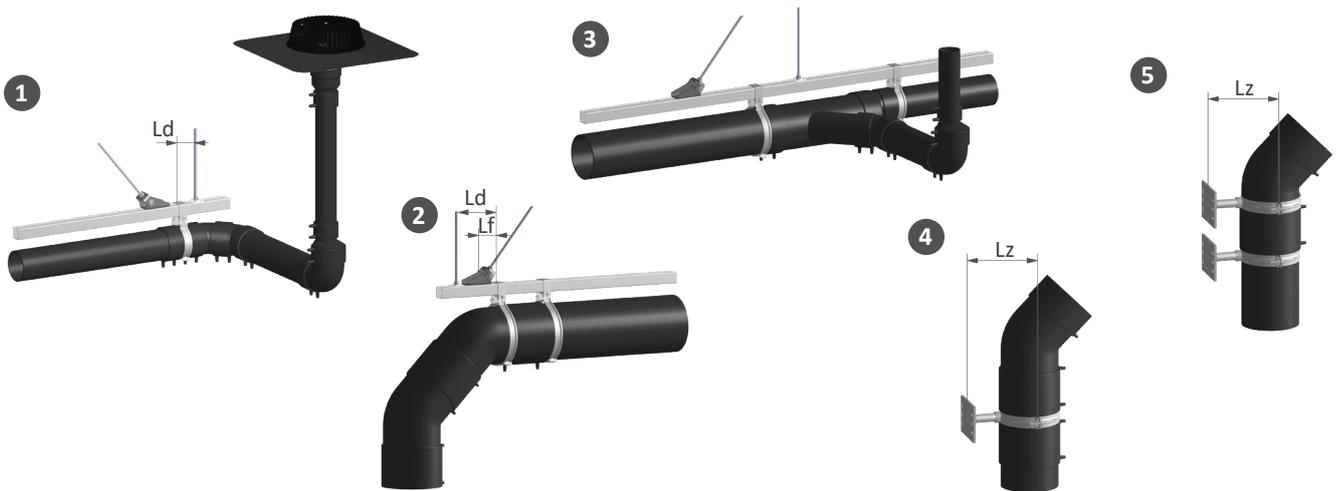
DN	Distance
40	0.75 m
50 - 90	0.90 m
110	1.10 m
125	1.20 m
160	1.60 m
200	2.00 m
250	2.00 m
315	2.00 m

Table 2: (distance La see chart)

DN	Clamp spacing La	Connection	Recommended wall spacing Lz
40 - 63	0.75 m	1/2"	max. 0.50 m
75 - 110	1.50 m	1/2"	max. 0.50 m
125	1.50 m	1/2"	max. 0.50 m
160 - 200	2.00 m	1"	max. 0.50 m
250	2.00 m	1"	max. 0.40 m
315	1.50 m	1"	max. 0.35 m

In detail:

- 1 Horizontal fixed point design in nominal sizes DN 40 to DN 160
1x SitaDSS clamp and 2x electrofusion sleeves
- 2 Horizontal fixed point design in nominal sizes DN 200 to DN 315
2x SitaDSS clamp and 1x electrofusion sleeve
- 3 One clamp before and one behind each branch
- 4 Fixed point design vertical in nominal sizes DN 40 to 160:
1x SitaDSS Down and 2x electrofusion sleeves
- 5 Vertical fixed point design in nominal sizes DN 200 to 315:
2x SitaDSS Down and 1x electrofusion sleeve



Pipe sizes and weights

To adapt the distances to the building structure, the specified dimensions may be reduced but not increased. Furthermore, the permissible load of the building structure must be taken into account, especially roof constructions using trapezoidal metal sheets.

The load-bearing capacity (in kg/m²) of trapezoidal steel roof structures is essentially determined by the substructure (carrier field width) and dependent of the trapezoidal profile. In any case, the approval of the structural engineer must be obtained.

The maximum suspension distances of the rail (Lb) can be taken from the following table, the suspension distances LB are reduced depending on possible loads to the roof construction.

DN OD* x wall (mm x mm)	Pipe + water + rail + clamp (kg/m)	15 kg/m ²	20 kg/m ²	25 kg/m ²	30 kg/m ²
		Suspension Lb (m)	Suspension Lb (m)	Suspension Lb (m)	Suspension Lb (m)
40 x 3.0	3.70	2.50	2.50	2.50	2.50
50 x 3.0	4.36	2.50	2.50	2.50	2.50
56 x 3.0	4.87	2.50	2.50	2.50	2.50
63 x 3.0	5.61	2.45	2.50	2.50	2.50
75 x 3.0	6.96	2.15	2.50	2.50	2.50
90 x 3.5	8.89	1.65	2.25	2.50	2.50
110 x 4.3	12.06	1.24	1.65	2.00	2.45
125 x 4.9	14.85	1.00	1.35	1.65	2.00
160 x 6.2	22.82	○	○	1.10	1.30
200 x 7.7	34.14	○	○	○	○
250 x 9.6	53.40	○	○	○	○
315 x 12.0	82.49	○	○	○	○

*OD = outside diameter (mm)

○ = Special construction required. Cannot be implemented with individual suspension on the structure!