

System Overview

	Main drainage							Emergency drainage							
	Gravity flow							Gravity flow							
	Silent							Silent							
Roof penetration	0 mm	0 mm	52 mm	52 mm	52 mm	103 mm		103 mm	0 mm	0 mm	0 mm	0 mm	52 mm	52 mm	
Diameter	DN 70	DN 100	DN 70	DN 100	DN 100	DN 100		DN 100	DN 100	DN 70	DN 70	DN 100	DN 100	DN 100	DN 100
LX-Number	LX 620	LX 621	LX 650	LX 647	LX 653	LX 694		LX 727	LX 1110	LX 1573	LX 1574	LX 1575	LX 1576	LX 1605	LX 1606
Flange form	Bonding flange 45°/90°	Bonding flange 45°/90°	Bonding flange 45°	Bonding flange 45°	Bonding flange 45°	Bonding flange 45°		Clamping flange 45°	Clamping flange 45°	Bonding flange 45°/90°	Bonding flange 45°	Bonding flange 45°/90°	Bonding flange 45°	Bonding flange 45°	Bonding flange 45°
Weir height h [mm]	0 mm	0 mm	0 mm	0 mm	0 mm	0 mm		0 mm	0 mm	40 mm	60 mm	40 mm	60 mm	40 mm	60 mm
Water height h [mm]	35 mm	35 mm	35 mm	35 mm	35 mm	35 mm		35 mm		75 mm	75 mm	75 mm	75 mm	75 mm	75 mm 95 mm
Roof area A [m²]*	26	40	76	100	150	150		150	56	56	46	83	43	150	53
Discharge rate Q [l/sec]	0.8 l/s	1.2 l/s	2.3 l/s	3.0 l/s	4.5 l/s	4.5 l/s		4.0 l/s 8.0 l/s	1.7 l/s	1.7 l/s	1.4 l/s	2.5 l/s	1.3 l/s	4.5 l/s	1.6 l/s 4.7 l/s
Sound (dB)	Silent	Silent	Silent	Silent-Power	Silent-Power	Silent-Power		Silent	Silent	Silent	Silent	Silent	Silent	Silent	Silent-Power

*Assumption: The calculation of the roof area is based on the following assumptions:
 Local rainfall intensity for normal rain: $r_5 = 0.03 \text{ l/s/m}^2$
 Local rainfall intensity for heavy rain: $r_{100} = 0.06 \text{ l/s/m}^2$
 Discharge coefficient $C = 1$ for smooth surfaces of the roof