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LORO®

Instruction video
for laying of
cascade drainage



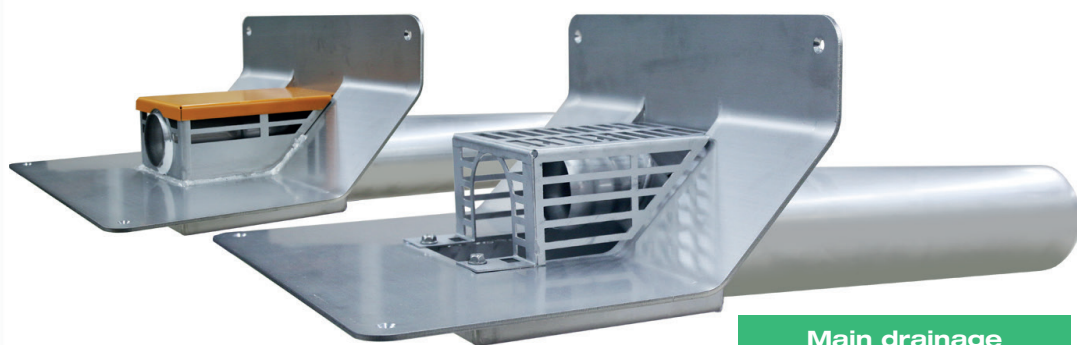
LORO-X DUOSTREAM

Cascade Drainage with pressing gravity flow

- with collector pipe between roof sealing and slab covering
- with collector pipe in the thermal insulation
- with multi-storey drains directly in the parapet and collector pipe between roof sealing and slab covering



Emergency drainage



Main drainage

**Made
in
Germany**

Subject to technical alterations
Technical state August 2020

LORO-X DUOSTREAM Cascade Drainage with Collector Pipe in the Thermal Insulation

The diagram illustrates the LORO-X DUOSTREAM Cascade Drainage system. It shows a cross-section of a roof structure with thermal insulation. The main drainage path (green header) starts with a parapet drain (1) connected to a pipe (2) that runs through the insulation. A branch (4) leads to a cleaning pipe (6) and a deflection piece (7). The emergency drainage path (red header) starts with a parapet drain (14) connected to a pipe (15) that runs through the insulation. A branch (15) leads to a standpipe (16) with a safety overflow (17). The system is supported by thermal insulation blocks (10) and includes various pipe clips (5) and sliding flanges (13). A detailed view of the pipe installation shows a minimum clearance of 80 mm between the pipe and the insulation, and a minimum clearance of 160 mm* between the pipe and the structural layer. The total discharge capacity is 4.0 l/s.

Main drainage		LX1907
Emergency drainage		LX1908
1	LORO-X RAINSTAR® parapet drains, DN 100	01390.100X
2	LORO-X pipe with one socket, DN 100	*)
3	LORO-X ventilation piece, DN 100	13217.100X
4	LORO-X branch, 87°, DN 100	00200.DD0X
5	LORO-X pipe clip, DN 100	00975.100X
6	LORO-X cleaning pipe, DN 100	00550.100X
7	LORO-X deflection shaped piece for roof terrace, DN 100/50	13429.DCBX
8	LORO-X pipe with long socket, DN 50	*)
9	LORO-X DUOSTREAM-Distant multi-storey drain**	13441.BD0X
10	LORO-thermal insulation block	01385.000X
11	LORO-X pipe with one socket, DN 100 (outer pipe)	*)
12	LORO-X pipe with one socket, DN 100 (inner pipe)	*)
13	LORO-X sliding flange for vapor barrier made of bitumen	13235.100X
	for vapor barrier made of PVC	13236.100X
14	LORO-X ventilation piece	13217.100X
15	LORO-X branch with bend	13500.100X
16	LORO-X standpipe, DN 100, 1500 mm, with high performance safety overflow	55154.100X
17	ground pipe	

* depending on the length
** alternatively LORO-X DUOSTREAM-Distant multi-storey emergency drain

min. 2.5 m
max. 8.0 m
min. 300 mm

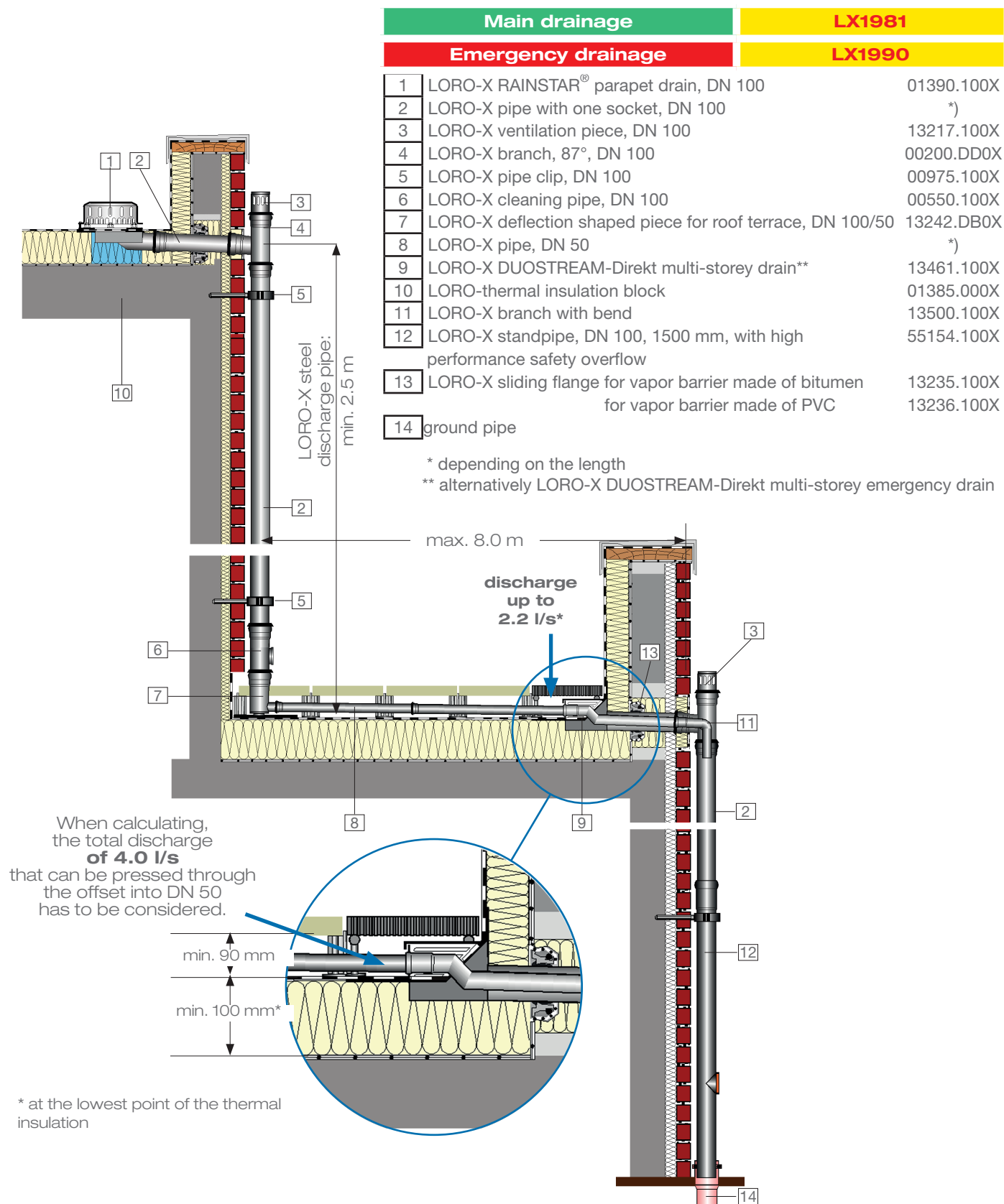
min. 80 mm
min. 160 mm*

When calculating, the total discharge of 4.0 l/s that can be pressed through the offset into DN 50 has to be considered.

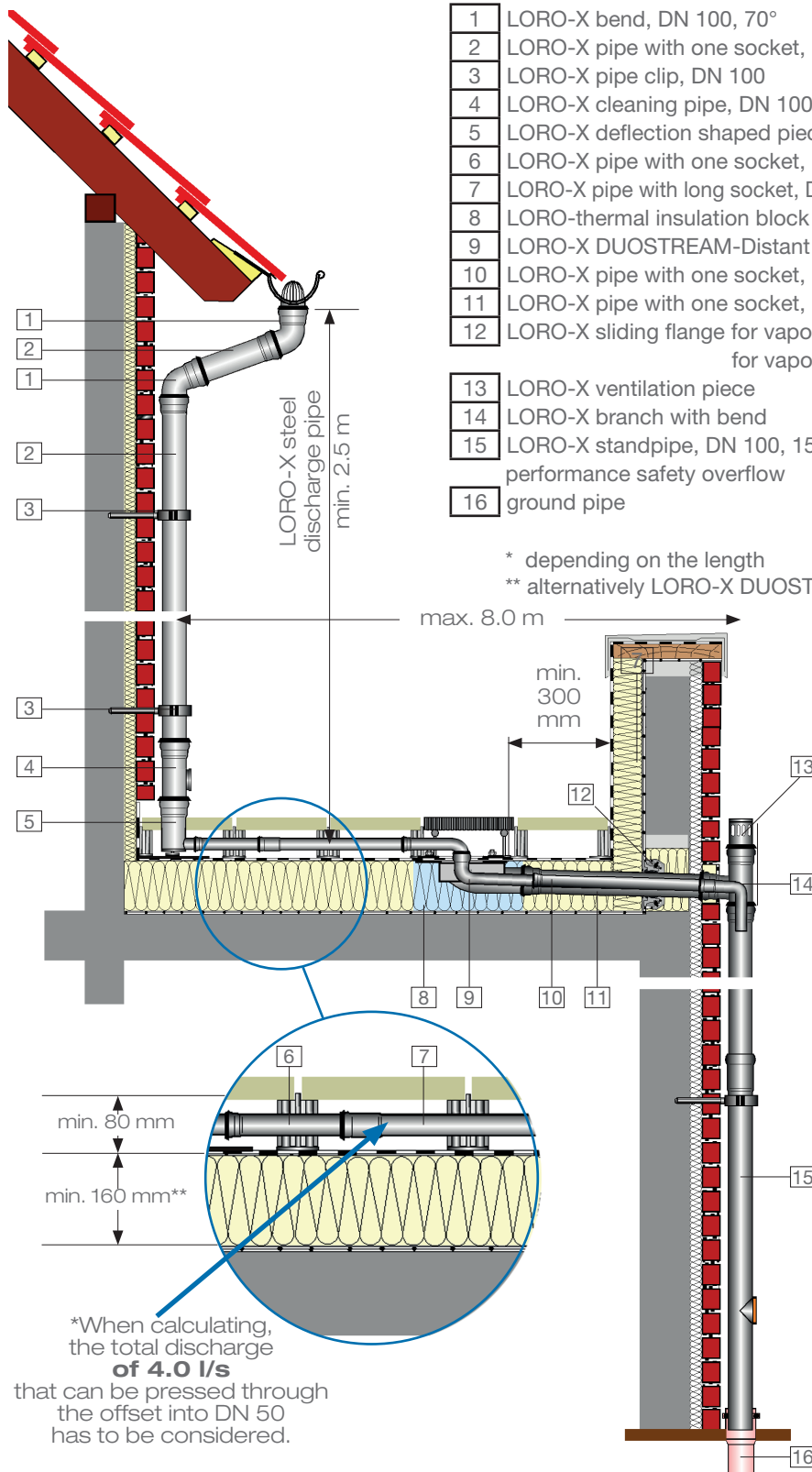
* at the lowest point of the thermal insulation

LORO-X DUOSTREAM Cascade Drainage

- collector pipe between terrace seal and slab covering
- multi-storey drain with bonding flange for bitumenous roofing sheets directly in the beginning terrace boundary
- only small penetration of the terrace structure



LORO-X DUOSTREAM Cascade Drainage with Collector Pipe between Roof Sealing and Slab Covering



Main drainage		LX1851
Emergency drainage		LX1857
1	LORO-X bend, DN 100, 70°	00310.100X
2	LORO-X pipe with one socket, DN 100	*)
3	LORO-X pipe clip, DN 100	00975.100X
4	LORO-X cleaning pipe, DN 100	00550.100X
5	LORO-X deflection shaped piece, DN 100	13242.DB0X
6	LORO-X pipe with one socket, DN 50	*)
7	LORO-X pipe with long socket, DN 50 (for length compensation)	*)
8	LORO-thermal insulation block	01385.000X
9	LORO-X DUOSTREAM-Distant multi-storey drain**	13612.100X
10	LORO-X pipe with one socket, DN 50 (inner pipe)	*)
11	LORO-X pipe with one socket, DN 100 (outer pipe)	*)
12	LORO-X sliding flange for vapor barrier made of bitumen for vapor barrier made of PVC	13235.100X 13236.100X
13	LORO-X ventilation piece	13217.100X
14	LORO-X branch with bend	13500.100X
15	LORO-X standpipe, DN 100, 1500 mm, with high performance safety overflow	55154.100X
16	ground pipe	

* depending on the length

** alternatively LORO-X DUOSTREAM-Distant multi-storey emergency drain

*When calculating,
the total discharge
of 4.0 l/s
that can be pressed through
the offset into DN 50
has to be considered.

* system-discharge rate without
consideration of the gutter drain insert

** at the lowest point of the thermal insulation

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