

**Questionnaire for LORO-DRAINJET®/RAINSTAR® siphonic drains**
**Please send documents and illustrations only in PDF format (no DWG/DXF files or links)!**
**E-Mail: [drainjet@lorowerk.de](mailto:drainjet@lorowerk.de)**

Building project	Building project:
	Street:
	Postcode and town:
	Planned execution date:

Planner address	Planner:
	Street:
	Postcode and town:
	Person responsible:
	Telephone no.:
	Fax no.:
	E-mail:

Required structural data (see also attached sketch for exemplary pipe system)	Basic data (please give details for each partial roof area and designate the respective roof area):	
	Height specification of low point of partial roof area with regard to +- 0,00 m:	m
	Height specification collector connection pipe of partial roof area:	m
	Height specification backwater level +- 0,00 m or:	m
	Insulation thickness at low point of partial roof area:	mm
	Thickness of ceiling at low point of partial roof area:	mm
	Material of ground pipe (material and nominal diameter):	
	Isometric illustration of drainage system (also see attached sketch page 3 for exemplary pipe system):	
	Specification of the area to be drained per drain (size and discharge coefficient C)	
	Length of drainage pipes	
	Height of drainage pipes	
	Mark wall and ceiling penetrations in the pipe system true to size and attach a description if the sealing is penetrated	
	additional details as PDF presentation true to size (top view of roof, floor plans, building cross section)	
	Discharge coefficients according to DIN 1986-100 (specification per partial roof area please):	
	Roof areas C = 1.0	
Gravel roof C = 0.8		
Extensive roof greening below 10 cm C = 0.5		
Extensive roof greening from 10 cm C = 0.4		
Intensive roof greening from 30 cm C = 0.2		
Paving stone, installed in sand or slag, areas with plates C = 0,9		
Inverted roof C = depending on the load		
Parking deck, blacktop C = 1,0		
Wind effects EN 12056-3 section 4.3.4 (50% wall areas)		

Rainfall event	local rainfall event r (5/5) l/(s x ha)	
	local heavy rainfall event r (5/100) l/(s x ha)	

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Roof type	Metal or composite metal gutter rectangular (specify the width at the bottom of the gutter)	
	Leightweight roof (trapezoidal sheet metal roof or wooden construction)	
	Solid roof (concrete)	
	Accessible roof area (parking deck)	

Roof structure	Warm roof	
	Inverted roof	
	Cold roof	

Roof sealing	Roof sealing sheet	
	Bitumen	
	Plastic sheet	
	Waterproof concrete	
	Vapour barrier	
	Bitumen	
	Plastic sheet	
	Waterproof concrete	

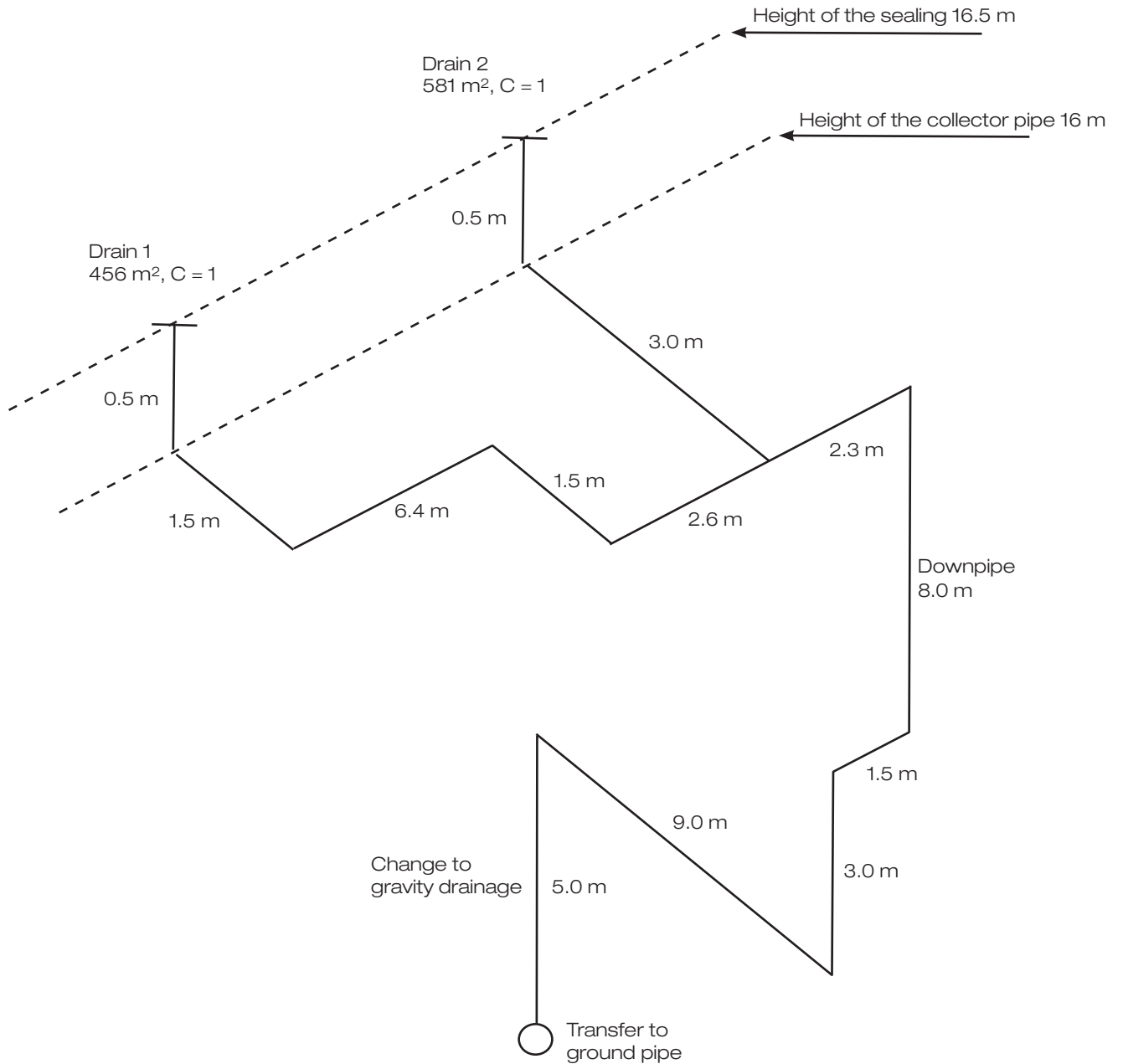
Type of pipe	Pipe system versions	with max. pipe length			
	LORO-X Steel discharge pipe	6 m		3 m	
	LORO-XCL Stainless steel discharge pipe			3 m	
	LORO Composite pipe standard version	4 m		3 m	
	LORO Composite pipe „Silent“ version	4 m		3 m	

Main drain	Main drainage system as siphonic flow system inside	
	Main drainage system as siphonic flow system via the parapet	

Emergency drain	Emergency drainage system as siphonic flow system inside	
	Emergency drainage system as siphonic flow system via the parapet	
	Emergency drain as spout via the parapet	

Fire protection requirements	LORO-X fire protection drains R90 or structural fireprotection of large-scale roofs according to DIN 18234	
		yes <input type="checkbox"/> no <input type="checkbox"/>

### Exemplary sketch for pipe system



### Compass for pipe system

