

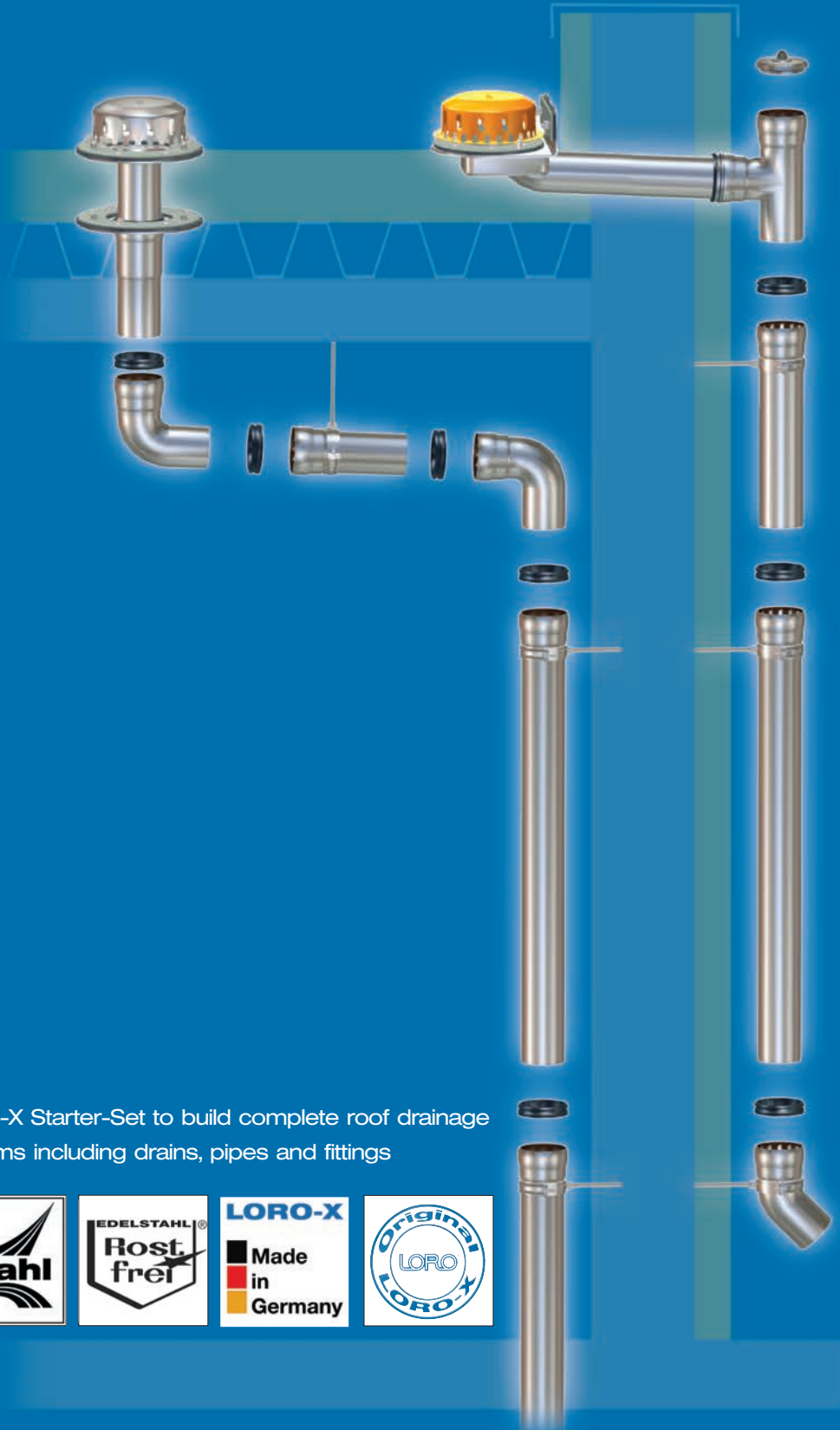
LORO-X

www.loro-x.com

LORO®

made of steel!

**Flat roof drainage
with gravity-flow
Starter-Set DN 100**



LORO-X Starter-Set to build complete roof drainage systems including drains, pipes and fittings



Original LORO-X Flat roof drainage systems

Dear customer,

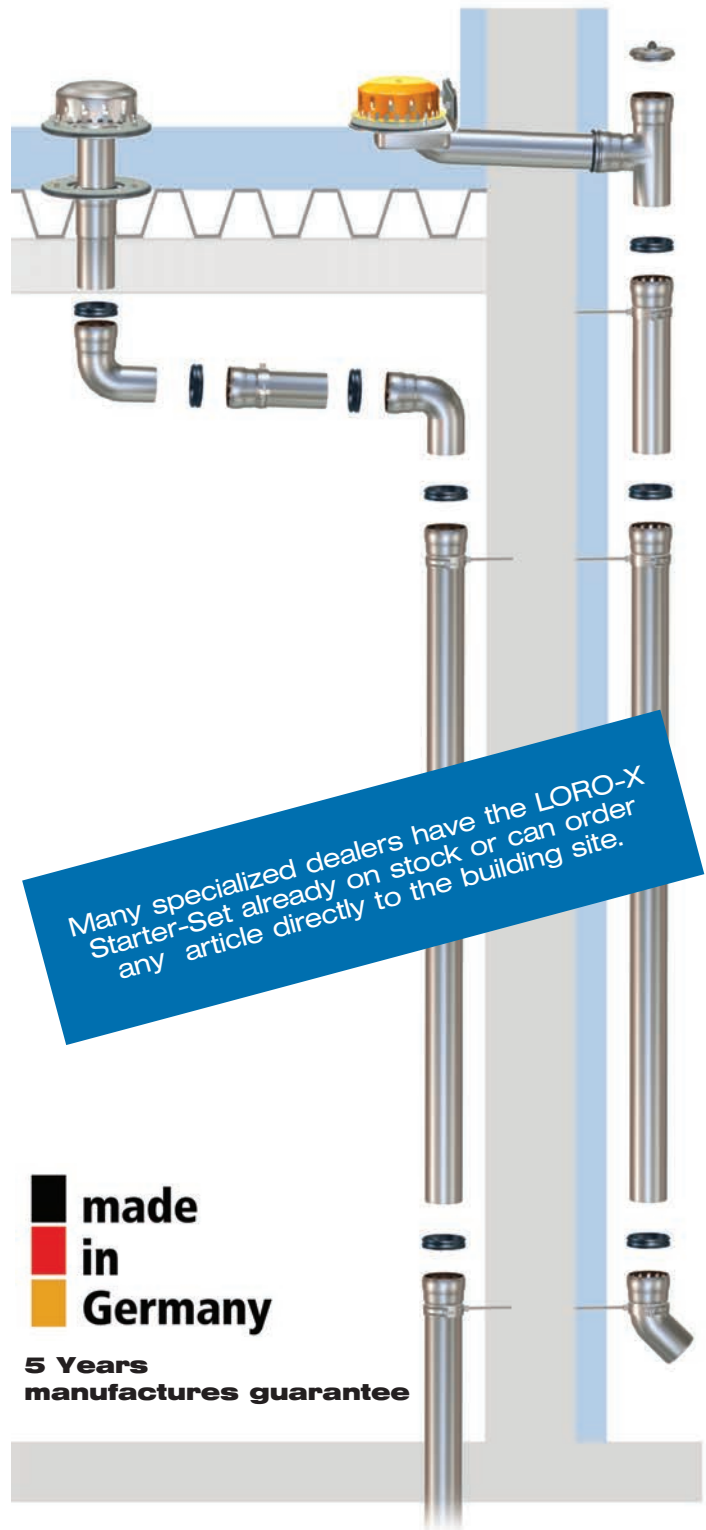
thank you for choosing original LORO-X roof drainage systems to drain your flat roofs!

The LORO-X Starter-Set consists of optimized drains, pipes and fittings with the diameter of 100 mm which is suitable for most flat roof drainage systems.

This set is very versatile and will allow the construction of a parapet drain system as well as a vertical drain system with pipes inside of the buildings plus you will always have the safety of a not flammable, unbreakable and backflow proof LORO-X complete system.

We hope that you will enjoy this Starter-Set and would be happy if you give us a call or visit us on our homepage!

Best regards,
your LORO-X Service-Team



Many specialized dealers have the LORO-X Starter-Set already on stock or can order any article directly to the building site.



LOROWERK, Bad Gandersheim, Germany

**made
in
Germany**

**5 Years
manufactures guarantee**

Additional value for craftsmen Safety for your roof



LORO-X System advantages:



Fast and easy installation with LORO-X push-fit socket

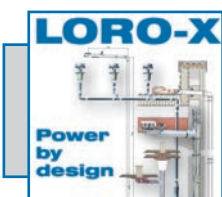
Worldwide Online-Service:

- Online-Calculation
- Online-Configuration
- Online-Shop



Individual products are possible

- planning assistance
- installation assistance
- trainings



Out of one hand: complete systems with LX-data sheet as proof of performance

optical highlight on any facade



LORO-X Parapet-direct

Main Drainage
Gravity flow



up to 25m² per drain

No penetration of the roof
for simple installation and best heat insulation

Made of galvanised steel
for high resistance against physical damage and UV-radiation



round pipe
for better sealing.

bonding flange
with 45° upward lip for bituminous sealing sheets

Please note the article numbers from this document on page 16



LORO-X Parapet-RAINSTAR

Main drainage
Gravity flow

Emergency drainage
Gravity flow



up to 150 m² per drain

High discharge-rate with the patented double acceleration in the lower pipe up to 9,0 l/s at 75mm water height on the roof

Shockproof, unbreakable and crush-resistant
due to UV-resistant stainless steel cover

Only one sealing level
plus 45° upward lip for installation assistance



Integrated weir under the cover (only for emergency drain) allows to install the emergency drain on the same level as the main drain

round pipe
for better sealing.

Please note the article numbers from this document on page 16



LORO-X Roof drain

Main drainage

Gravity flow

Emergency drainage

Gravity flow



up to 150 m² per drain

High discharge-rate

with 6,5 l/sec at 35mm
and 15,5 l/sec at 75mm
water height on the roof

**Shockproof,
unbreakable and
crush-resistant**

due to UV-resistant stainless
steel cover

Double clamping flange

for vapor barrier and
waterproofing



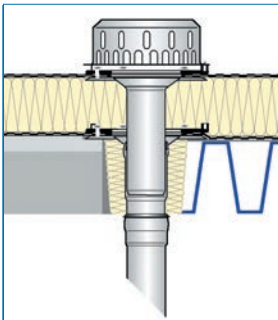
Only small cutouts

in the insulation

thermal insulation

included

Please note the article numbers from this document on page 16



LORO-X For retrofitting

Main drainage

Gravity flow



To replace old PVC- or cast-iron drains

High discharge-rate

with 5,6 l/sec at 35mm and 12,3 l/sec at 75mm water height on the roof

clamping flange

for bituminous and plastic waterproofing

For existing pipes

from 96-106mm inner diameter

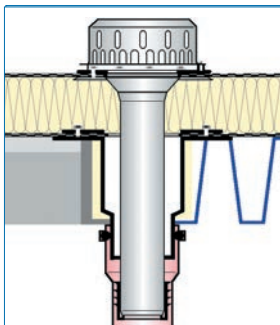


Made of stainless steel
for high stability and low weight

No drain basin
under the drain
so that the drain will fit in nearly every situation

transition sealing element for compensation of different pipe diameters

Please note the article numbers from this document on page 16



LORO-X downpipe



for roof drainage
inside the building...

...and for parapet drainage
outside of the building

Easy installation and time-saving

by LORO-X push-fit socket connections in the complete system

weatherproof

against frost, heat and UV radiation

good looking

on every facade

Pressure-resistant, shockproof

made of galvanized steel for indoor and outdoor

backwater safe

due to LORO-X push-fit socket with sealing element

Fire proof

due to galvanized steel pipes building material class A1



Please note the article numbers from this document on page 16



LORO-X standpipe



For parapet drainage
and gutter drainage

Heavy duty

highly resistable against mechanical damage and vandalism

Best addition

to conventional, unstable Zinc-downpipes



no additional protection
against damage necessary

cleanout opening
pressure resistant and
backwater safe

Please note the article numbers from this document on page 16

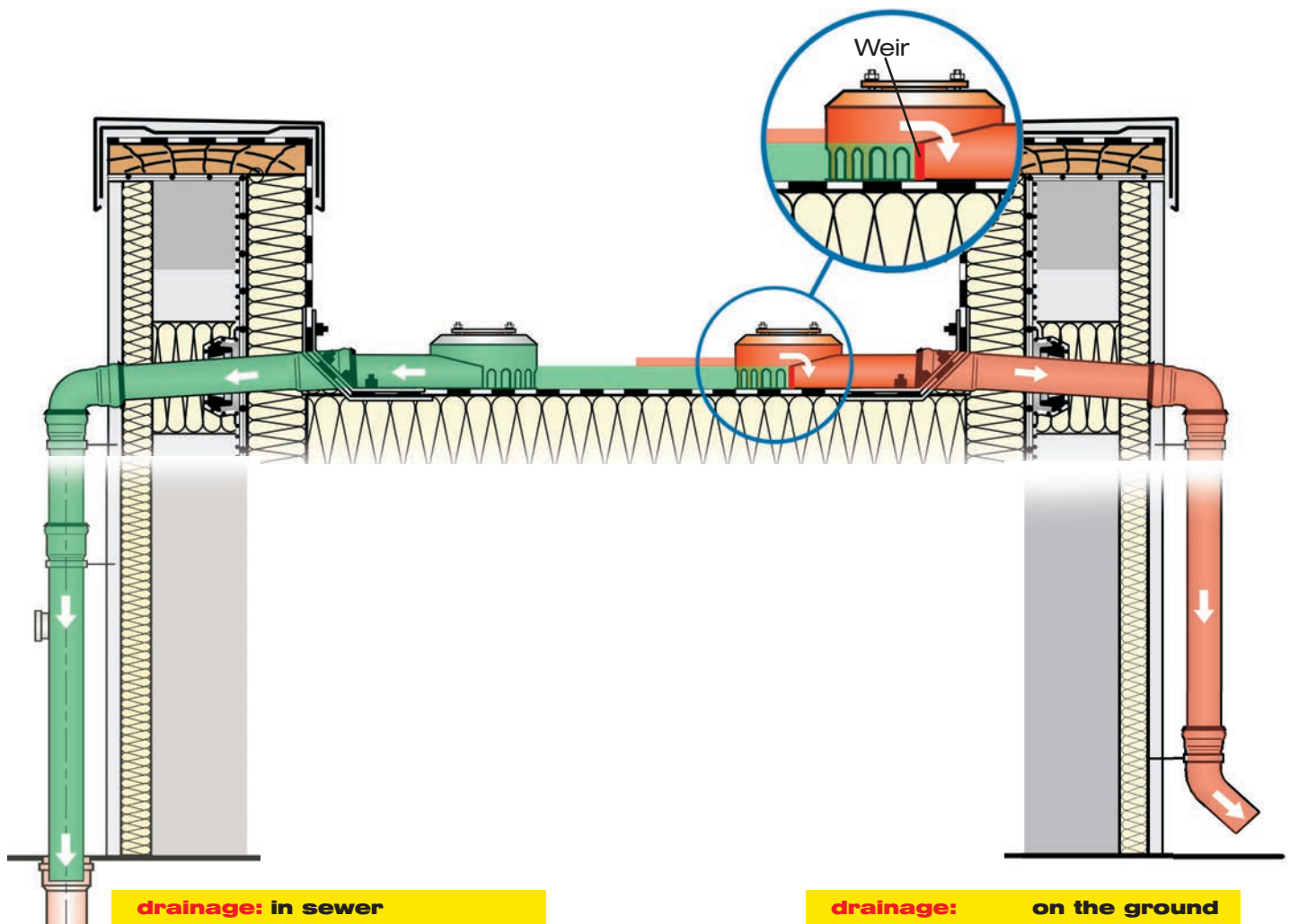


Main drainage

- At each low point
- No weir
- drainage pipe in the ground/sewer

Emergency drainage

- In addition to the main drainage: at each low point
- With weir
- Runs only in case of heavy storm rainfall, or when the main drainage is blocked
- drainage on the free ground



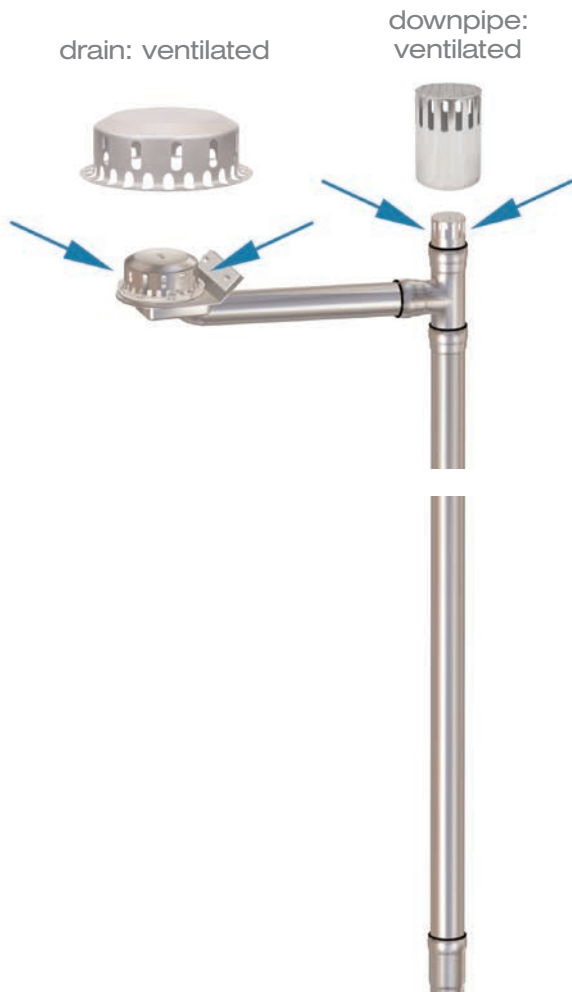
Gravity flow

- ventilation openings at the drain
- Ventilated pipe system
- Slow gravity flow

Siphonic flow

- No ventilation openings at the drain
- No ventilated pipe system
- Fast siphonic flow

ventilated



not ventilated



LORO-X BOX with siphonic flow

up to 600 m² per BOX

Please give us a call!

10x higher discharge rate*
9x less drains
9x less downpipes

Compared to conventional gravity flow, the powerful LORO-X siphonic flow systems provide up to 10 times higher discharge rates with the same pipe diameter!

LORO-X Systems, from the drain down to the Stand pipe are made of pressure resistant steel idea for siphonic flow.

With the LORO-X BOX you are ready to go! In the BOX you will find the drain, all necessary fittings and accessories.

Only the LORO-X downpipe must be ordered separately (see page 16).

We are looking forward to discuss the benefits of siphonic flow for your project. Give us a call!

* compared to conventional PVC or cast iron DN 100 solutions.

LORO-X BOX advantages:

- Up to 10 times higher discharge rate
- Up to 9 times less roof drains
- Up to 9 times less downpipes
- Safe LORO-X Steel System
- Reliable performance as described in LX-data sheet
- Drain, fittings and accessories included

Main drainage Siphonic flow



LORO-X BOX RAINSTAR

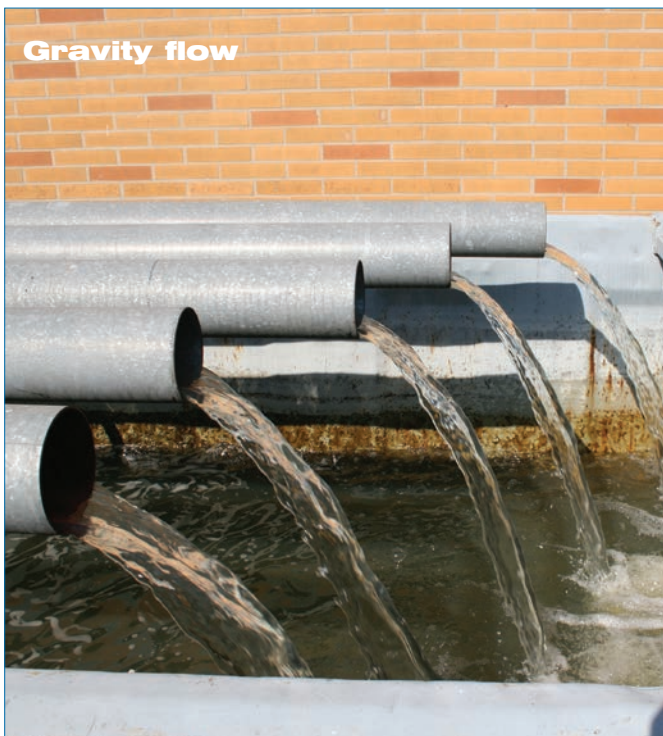
16,2 l/sec at 55mm water level (LX480)
 LORO-X BOX including the drain with 45° clamping flange, fittings and accessoires
 Article Number: **B0480.002X**

Emergency drainage Siphonic flow

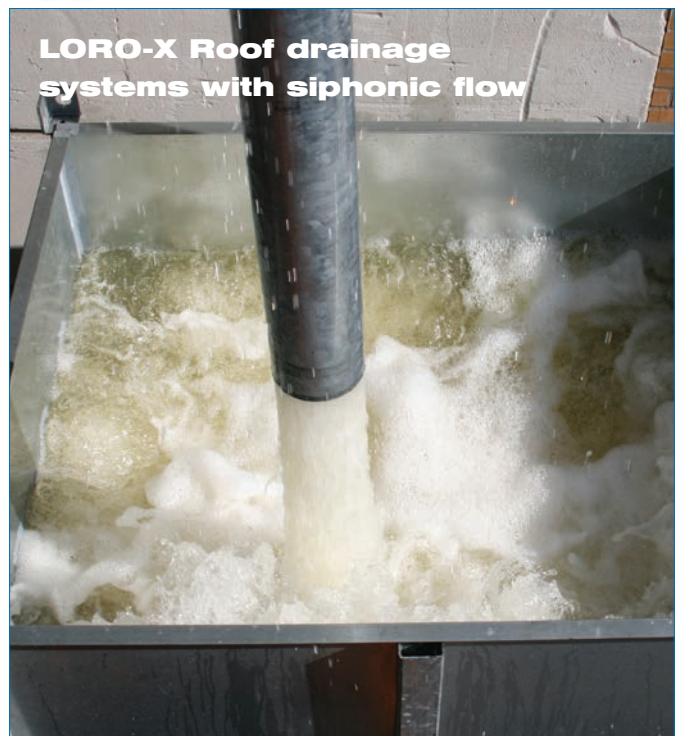


LORO-X BOX RAINSTAR

21,7 l/sec at 75mm water level (LX482)
 LORO-X BOX including the drain with 45° clamping flange, fittings and accessoires
 Article Number: **B0482.002X**



Gravity flow



LORO-X Roof drainage systems with siphonic flow

LORO-X BOX with siphonic flow

up to 600 m² per BOX

Please give us a call!



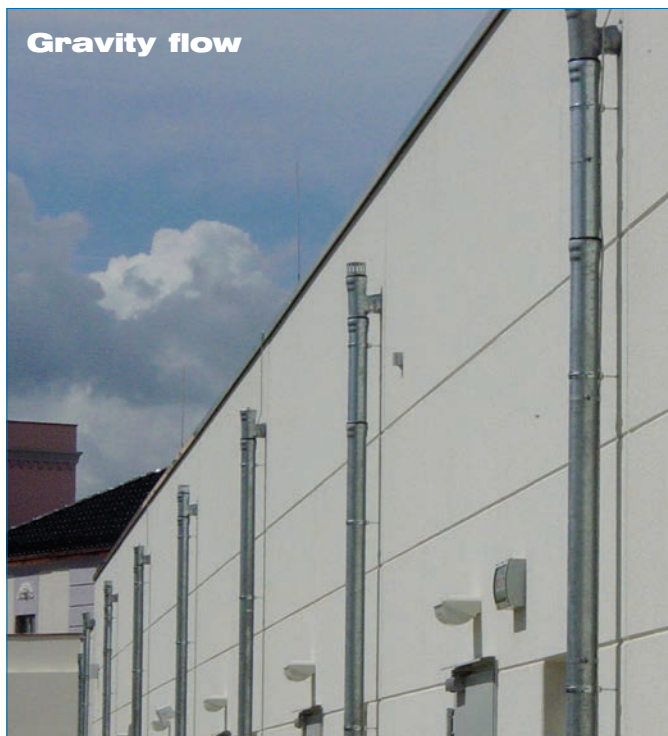
Highest discharge rates
up to 21 l/sec at 75mm water level on the roof

All fittings and accessories are included
in the BOX for easy transportation and order.

Powerful siphonic flow
with proof of performance in the LX-data sheet



Gravity flow



LORO-X Roof drainage system with siphonic flow saves drains and downpipes



Online-Calculation



Current standards require the view of the entire drainage system consisting of drains, pipes and fittings to ensure function and discharge rate.

Therefore many craftsmen calculate and check the required discharge rate before installation. Based on the discharge rate that is calculated in "liters per second," craftsmen then select the right drainage system.

The calculation is quick and simple on www.loro-x.com:

Roofage in m ²	0	m ² (mandatory field)
Roof type (C):	Concrete roof 1	
Normal-Rainfall:	300	(r5,5) in Liter/Second/10.000m ²
Maximum-Rainfall:	600	(r5,100) in Liter/Second/10.000m ²

Calculation for Main- and Emergencydrainage with gravity- or siphonicflow.
 This LORO-X Online-Calculation for Flatroofdrainage calculates the necessary amount of Water (liters per second) corresponding to the DIN 1986-100 for Flatroofs.

*This calculation does not replace the professional consulting of the LORO-representatives!
 No guarantee for this Online-Calculation by LORO !

International representatives
1 Germany

LOROWERK
K.H. Vahlbrauk GmbH&Co.KG
Kriegerweg 1
37581 Bad Gandersheim
Tel.: +49 53 82 710
email: infocenter@lorowerk.de
Peter Kuck
Export director
Schlipshaimer Str. 119
86356 Neusaess
Tel.: +49 821.248 90 59
email: peter.kuck@lorowerk.de

2 Norway

SHELBY TEKNIKK A/S
Strandgaten 55
N-4371 Egersund
Tel.: +47 51 461 800
email: ko@shelby.no

3 Finnland

OY INTERCO AB
Elimäenkatu 12 - 16A
FI-00510 Helsinki
Tel.: +358 9 774 3220
email: robert.kother@interco.fi

4 Great Britain

TRANSVAC SYSTEMS
Marlowe House, Unit B
Rudford Industrial Estate
Ford, Arundel
UK-West Sussex BN 18 OBF
Tel.: +44 1903 736 900
email:sales@transvac-systems.co.uk

5 Denmark

BAHEKO A/S
Vandmestervej 37
DK-2630 Taastrup
Tel.: +45 43 991 611
email: baheko@baheko.dk

6 Netherland/Belgium

LOROMEIJ-GOOR B.V.
Gruttostraat 75
NL-7470 AB Goor
Tel.: +31 547 272 696
email: info@loromeij.nl

7 Poland/Baltic States

KRZYSZTOF PAMULA
Im Spargelfeld 23 A
D-31626 Haßbergen
Tel.: +49 5024 88 78 44
email: info@pamula.de

8 Czech Republic

TOPWET s.r.o.
Janovice 80
CZ-59501 Velká Bíteš
Tel.: +420 566 531 337
email: info@topwet.info

9 Slovak Republic

SLOVINTERNORM s.r.o.
Krizna 44
SK-82108 Bratislava
Tel.: +421 2 5542 5980
email: Slovinternorm@internorm.sk

10 Slovenia

SIES napredne resitive d.o.o.
Danijel Voncina
Ulica Lavznik 19
SI-5290 Sempeter pri Gorici
Tel.: +386 5 93 75 152
email: danijel.voncina@sies.si

11 Austria

HELMUT EBERHARD
Eigenheimstr. 5
A-4063 Hörsching
Tel.: +43 7221 74773
email: office@heberhard.at

12 Switzerland

WISAN TECHNIK AG
Gubelstr. 19
CH-6300 Zug
Tel.: +41 41 711 50 35
email: wisan@bluewin.ch

13 Romania

SEVA-GROUP SRL
Strada Vulturului 15
RO-500264 Brasov
Tel.: +40 268 312 826
email: info@sevagroup.ro

14 Portugal

Shipbuilding only:
MARINE-TECHNIK-SERVICE
Ausblick 22
D-42113 Wuppertal
Tel.: +49 202 720 002
email: info@angelmeier.com

15 Spain

GEPRO PLUS S.L.
Camilo José Cela, 32
E-19200 Azuqueca de Henares
Tel.: +34 949 260 281
email: geproplus@geproplus.com

16 Italy/Croatia

Fabio Marabini
consulente tecniche
Via Borgo Palazzo 116
I-24125 Bergamo
Tel.: +39 035 210 081
email: fabio@marabini.net

17 Bulgaria

Shipbuilding only:
MORGAN Ltd.
29 A, Michael Koloni Str.
BG-9000 Varna
Tel.: +359 52/631 222, 615 709
email: office@morganbg.com

18 Greece

JPG HELLAS Ltd.
9, Il Merarchias Street
GR-18535 Piraeus
Tel.: +30 210 422 37 48
email: pagiotas@jpg.gr

China

PROCO INTERNATIONAL Ltd.
Room 2210, 22/F.
New York Life Tower,
Windsor House,
311 Gloucester Road,
Causeway Bay
Hong Kong
Tel.: +852 28 24-39 00
email: customerservice@proco.com.hk

Singapore/Malaysia

Marketing M&E 2000 pte ltd.
Herr Edmund Kan
50 Ubi Ave 3# 02-09
Singapore 408866
Tel.: +65 6285 9296
email: mme2000@pacific.net.sg







United States

Building Construction:
LORO-JOSAM
525 West Hwy. 20
Michigan City, IN 46360
Tel.: +1 219 872 5533
email: lora@josam.com
Shipbuilding only:
GLOBAL SUPPLY COMPANY
590 Ansin Blvd.
Hallendale, FL 33009
Tel.: +1 954 454 1234
email: charles@gscusa.com








Order-form




Please add the recommended system components to your drain:

Main drainage				Emergency drainage	
					
LORO-X Parapet-Direct 01316.00X	LORO-X RAINSTAR® Parapet 01370.100X	LORO-X DRAINLET® roof drain 21522.100X	LORO-X DRAINLET® roof drain for retrofitting 21518.080X	LORO-X RAINSTAR® Parapet-emergency drain, 01371.100X	LORO-X DRAINLET® emergency drain, 21722.100X





LORO-X downpipe, DN 100

 LORO-X Pipe 1000 mm, Art.-No. 01201.100X 2000 mm, Art.-No. 01101.100X	•	•	•	•	•
 LORO-X stand-pipe Art.-No. 05510.100X	•	•			
 LORO-X pipe clamp Art.-No. 00975.100X	•	•	•	•	•
 LORO-X threaded rod Art.-No. 09604.200X	•	•	•	•	•
 LORO-X sealing element Art.-No. 00911.100X	•	•	•	•	•

LORO-X fittings, DN 100

 LORO-X bend 87° Art.-No. 00300.100X 45° Art.-No. 00320.100X			•	•	•
 LORO-X closing plug Art.-No. 00805.100X	•	•		•	
 LORO-X Abzweig, 87° Art.-No. 00200.DD0X	•	•		•	

LORO-X accessories, DN 100

 LORO-X sliding flange Art.-No. 13235.100X	•	•		•	
 LORO-Thermal insulation block Art.-No. 01384.000X		•		•	
 LORO-X Transition sealing element (optional for DN 110 pipes) Art.-Nr. 00937.100X			(•)		
 LORO-lubricant Art.-No. 00986.000X	•	•	•	•	•

Proof of performance by LX-data sheet

