ROMOLD

WHEN IT COMES TO CHAMBERS.

Electro & Telecommunication **2019**

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YOUR PARTNER FOR INNOVATIVE MANHOLES AND INSPECTION CHAMBERSRS

MAKE USE OF THE MARKET LEADER'S KNOW-HOW

- the highest quality requirements are our constant challenge
- we offer continuous innovation and developments
- we have qualified, experienced and highly committed staff
- our clients benefit from the highest service level

IN-DEPTH EXPERTISE

When ROMOLD GmbH launched the first industrially produced plastic chambers onto the market in 1992, it was no less than a minor revolution – as the former technology was literally cemented into people's minds. However, the benefits in practice are so great that this innovative product soon took off, making ROMOLD the European market leader for plastic chambers today.

ROMOLD concentrates purely on chambers and is the only supplier that has specialised exclusively in the plastic chamber segment. This has enabled us to develop a level of in-depth expertise that is second to none. Our products and services are innovative down to the last detail. You too can profit from our special future-oriented chamber solutions!

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MATURE SYSTEM TECHNOLOGY

With the world's largest product range and the capability of producing even very small batches of custom products, we are able to react to your wishes very flexibly.

We have a portfolio of over 1,000 products that are available at short notice and which cover 99% of all applications.

Additional modifications can be made to adapt these standards to local circumstances, e.g. by welding in additional channels. ROMOLD manufactures to the highest quality standards; these are ensured by continual internal and external monitoring. And of course the company is also certified in accordance with DIN ISO 9001, providing you with the security that you always get the best, as well as the most flexible systems.

QUALITY FROM THE PLANNING STAGE THROUGH TO INSTALLATION

We manage each and every project with commitment and dynamism from the consulting stage right through to installation. We offer seminars for planning offices and public authorities on site and in our headquarters.

CONTENT

All Prices in this catalogue
refer solely to the German Market

ROMOLD

DISTRIBUTION GERMANY

ALWAYS NEAR YOUR BUILDING SITE

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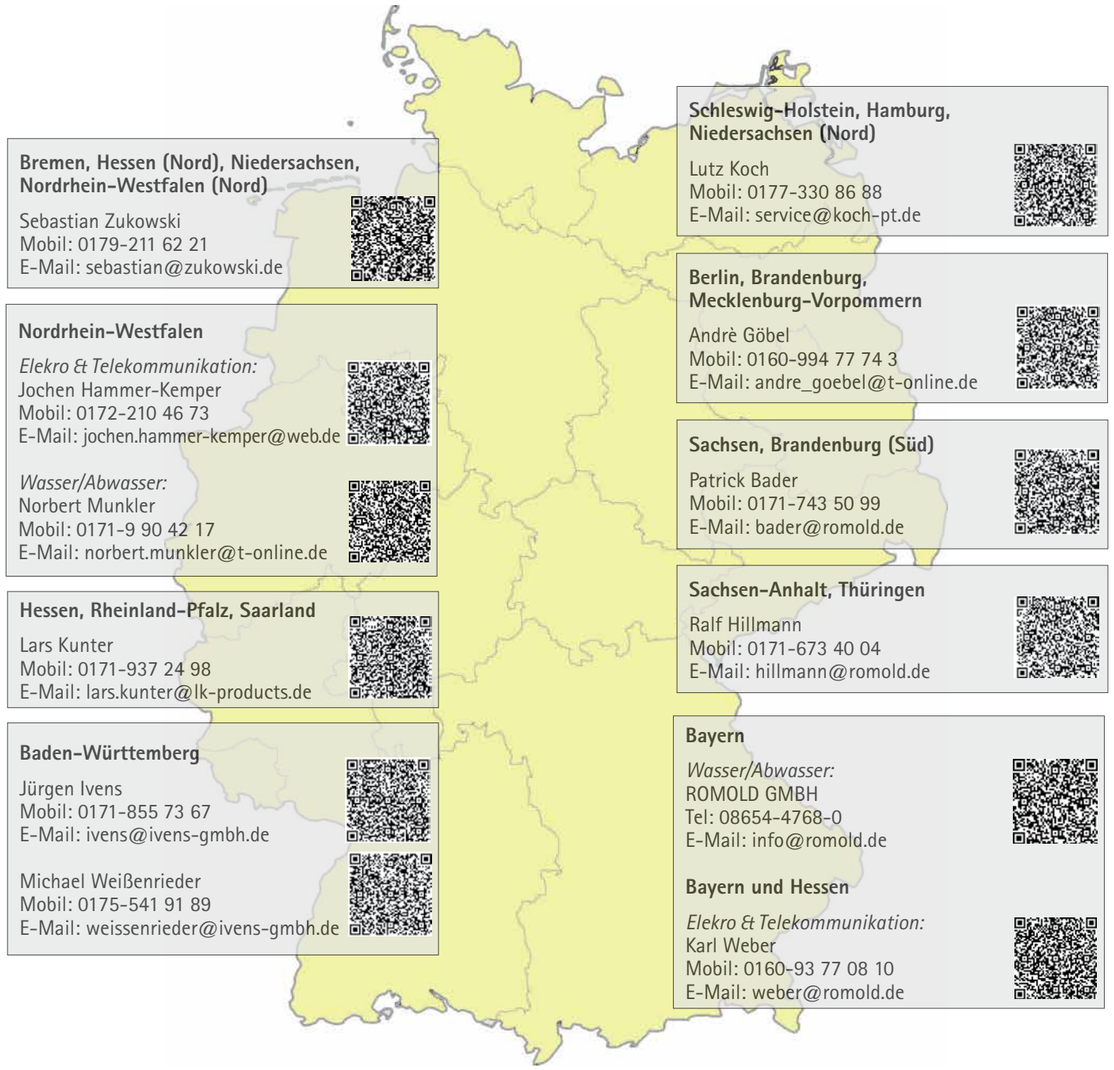

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EUROPE DISTRIBUTION

INTERNATIONALLY SUCCESSFUL

As the European pioneer for industrially manufactured plastic chambers (over 1 million chamber components sold), ROMOLD product development builds on nearly 25 years of expertise.

On the basis of extensive international experience, ROMOLD offers its customers a selection of plastic chambers for any application - unique in its class world-wide.

In combination with the well-known ROMOLD quality and the customer service of a medium-sized company, ROMOLD offers advantages which can be delivered only by a pioneer in the plastic chambers sector.

CABLE CHAMBERS

ROMOLD

CONTENT CABLE CHAMBERS

ROMOLD

ROMOLD CABLE CHAMBERS

MODERN AND FUTURE-ORIENTED

WITHOUT DOUBT

The use of plastics is the perfect alternative to traditional concrete chambers due to the durability of the material and its many advantages such as absolute leak-tightness, high material quality and cost effectiveness. The chambers can be equipped with class D covers.

PE/PP cable chambers are used especially for electrical and fiber optic cables in the municipal lighting, signal systems and telecommunications sectors. They allow quick and safe installation, simple integration of cable conduits and, if necessary, an absolutely leak-proof design.

POLYETHYLENE - POLYPROPYLENE

The environmentally friendly material fulfills all current standards and optimally complies with the wishes of processors with regard to its handling.

ROMOLD uses 100 % recycable material. Polyethylene and Polypropylene resist chemicals, mechanical stress and abrasion over the long term.

FLEXIBLE SOLUTIONS FOR ALL

Almost all pipes can be integrated. ROMOLD cable chambers offer a solution for individual requirements as well. Special designs according to customer requirements are possible at all times.

For the latest information on this topic, visit www.romold.de, System, Technology

Fachverband Fernmeldebau e.V.

ROMOLD is a member of the above-named communication construction trade association, the association of leading corporations for cable and communication engineering.

LOW WEIGHT

Part weight of approx. 30–40 kg

quick installation by hand without lifting aids.

100 % WATERTIGHT

All parts are tested against internal & external pressure (0.5 bar).

LONGEVITY

A lifecycle of up to 100 years is realistic.

FLEXIBILITY

No cracks and breaks due to movement.

COMPATIBILITY

Designed to be connected to all current pipe systems.

OPERATING EFFICIENCY

Investment in the future with clear advantages in point balance.

The largest PE chamber parts warehouse in the world, guaranteed short delivery times.

CABLE CHAMBERS

OVERVIEW PRODUCT PROGRAMME

ROM-BOX

RECTANGULAR,
MODULAR,
SAND-PROOF
LOAD UP TO CLASS D 400
VARIOUS DIMENSIONS

See page 154

1) Heights according to Product table or by agreement
2) Side strips of roads and parking lots, approved for all kinds of vehicles. Vehicles with single axle – axle load ≤ 192 kN and wheel contact surface min. 0.4 m x 0.4 m. For areas subject to greater loads, a "roll in" cover (Selflevel® System) is required.
3) For all rectangular, commercially available chamber covers
4) Exact clear dimension depends on the chamber cover

ROM-Box Typ	Clear dimensions w x l x d max [1] mm	ROMOLD chamber cover Steel frame / Spherical cast cover			ROMOLD chamber cover Steel frame / Steel and concrete cover	
		Kl. B 125 EN 124	Kl. D 400 EN 124	Lid quantity	Kl. B 125 EN 124	Kl. D 400 [2] EN 124
25/55	250 x 550 x t					
30/30	300 x 300 x t	X	X	1	X	X
40/40	400 x 400 x t	X	X	1	X	X
40/90	400 x 900 x t	X	X	2	X	X
40/115	400 x 1150 x t	X	X	2	X	X
40/139	400 x 1390 x t	X	X	3	X	X
40/160	400 x 1600 x t	X	X	3	X	X
57/42	570 x 420 x t	X	X	1	X	X
57/92	570 x 920 x t	X	X	2	X	X
57/115	570 x 1150 x t	X	X	2	X	X
57/142	570 x 1420 x t	X	X	3	X	X
75/75	715 x 715 x t	X	X	2	X	X
75/115	755 x 1125 x t	X	X	3	X	X
75/155	755 x 1515 x t	X	X	4	X	X
40/65 (ST)	400 x 650 x t					
40/80 (ST)	400 x 800 x t					
70/70 SL (ST) [4]	750 x 750 x t					
70/140 SL (ST) [4]	750 x 1500 x t					

ROM-Box Typ	Clear dimensions w x l x d max [1] mm[1]	ROMOLS chamber cover [3] Steel frame / Steel lid, paving possible			GAV Selflevel®	Chamber covers commercially available [3]		Telescopic steel U-profile	Height adjustment max. 5 cm
		Kl. B 125 EN 124	Kl. D 400 [2] EN 124	Cover piece	Kl. D 400 EN 124	Kl. B 125 EN 124	Kl. D 400 [2] EN 124		
25/55	250 x 550 x t					X			
30/30	300 x 300 x t	X	X	1					X
40/40	400 x 400 x t	X	X	1					X
40/90	400 x 900 x t	X	X	1					X
40/115	400 x 1150 x t	X	X	2				X	X
40/139	400 x 1390 x t	X	X	2				X	X
40/160	400 x 1600 x t	X	X	2				X	X
57/42	570 x 420 x t	X	X	1					X
57/92	570 x 920 x t	X	X	1				X	X
57/115	570 x 1150 x t	X	X	2					X
57/142	570 x 1420 x t	X	X	2				X	X
75/75	715 x 715 x t	X	X	1					X
75/115	755 x 1125 x t	X	X	2				X	X
75/155	755 x 1515 x t	X	X	3				X	X
40/65 (ST)	400 x 650 x t					X	X		
40/80 (ST)	400 x 800 x t					X	X		
70/70 SL (ST) [4]	750 x 750 x t				X	X	X		
70/140 SL (ST) [4]	750 x 1500 x t				X	X	X	X	

watertight cable chambers

KS / FCE

ROUND
MONOLITHIC
WATERTIGHT
LOADABLE UP TO CLASS D 400
VARIOUS DIMENSIONS

KS 63/80
DN 625 page 184

KS 80.63/XX
DN 800 page 186

FCE 80.63/115 FIBS BS
DN 800 page 188

KS 100.63/XX
DN 1000 page 190

KS 100.63/110 SBL
DN 1000 page 192

ROM-BOX OVERVIEW

TECHNICAL VIRTUES

Scan QR-Code for project questionnaire / see site questionnaire chapter

can be paved

plastic cover

T-bars

multi-part cover

can be concrete-filled

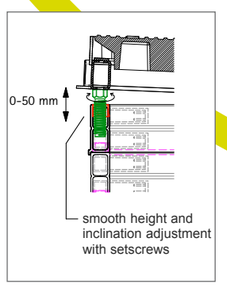
can be drilled on site in acc. with instruction

angled pipe joint

perpendicular pipe joint

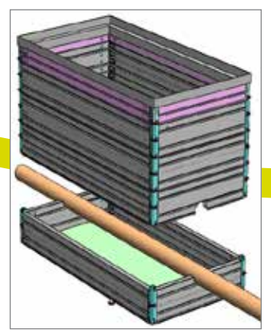
head frame (Z-profile)

lockable

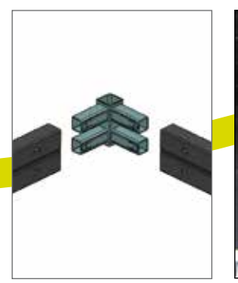


adjustable height

cone drill, sealing cap, lift/locking key

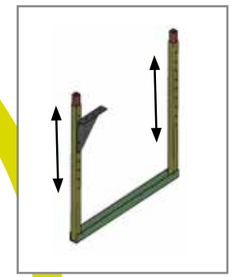


can be built on



vertically separable, profile with corner connecting elements, drainage opening in base plate

telescopic U-frame



ladder

special covers

ROMOLD

ROM-BOX

RECTANGULAR, MODULAR, MAX. CLASS D 400

Practical accessories (sleeve holder)

Plug for cable/pipe connections

CHARACTERISTICS AT A GLANCE

- flexible height
- flexible length and width (for all commercial covers)
- flexible pipe connections (position, diameter)
- Class B 125
- Class D 400 static
- Class D 400 with Selflevel® Cover
- continous height and declination adjustment
- divisible without any special tools
- space-saving: only 40 to 60 mm wall thickness

WHAT YOU NEED TO KNOW

The ROM-Box from ROMOLD is the ideal alternative to traditional concrete cable chambers. It combines the stability (class D 400) and standard dimensions of concrete systems with the flexibility and the quick and easy installation options of plastic systems.

The ROM-Box is used as a cable drawing chamber and cable distribution chamber.

For latest information on this topic, visit www.romold.de, menu products, submenu electric & telecommunications, ROM-Box

EXAMPLE OF SPECIFICATIONS FOR TENDERS

Plastic cable chamber, Model ROM-Box 57/42

Polypropylene cable chamber, 100 % recyclable, clear width 569 x 419 mm, rectangular, made of 100 % virgin material, double-walled, external dimensions: 649 x 499 mm, element installation heights: 100 mm and 200 mm. Vertical fixing of wall profiles below each other with a detachable clip connection on the corner elements for easy superstruction of empty tubes. Horizontal fixing of wall profiles below each other is ensured by a detachable clip connection on the corner elements..

Sand-proof cable protector pipe/conduit connection per factory-made or on site prepared entering openings and optional plastic sealing plug in DN 50, DN 110, DN 160, which can easily be adjusted to other diameters (possible cut positions).

Smoth cable chamber base of plastic with ex work or on site prepared trickle openings for intrusion of surface water.

Cable chamber cover with torsion-resistant chamber cofer frame from steel, galvanised, circumference elastomer bearing, with lid (lid elements) from ductile grey Cast iron with textured surface, lockable, excavation opening with plastic sealing plug, plain label consolidation for labels with commercial labeling.

Choices:

☐ Height- and slope adaption with adjusting screws in the top corner elements, height adjustment = 0–50 mm,

☐ Chamber cover class B 125 (EN 124), one piece cover element

☐ Chamber cover class D 400 (EN 124), one piece cover element

☐ paveable cable chamber cover, one piece cover element,
o Class B 125 o Class D 400

☐ concrete filled cable chamber cover, one piece cover element
o Class B 125 o Class D 400

☐ Multifunctional key from steel for chamber cover frame-hight adjustment, locking and unlocking as well as incavation and excavation of the cover.

☐ Plastic sealing plug (DN 50, DN 110, DN 160)

☐ Plastic sealing plug for cover excavation opening

☐ Customer specific signboard

clear measure (l x b): 419 x 569 mm

external dimension (L x B x T) 499 x 649 x T = ... mm

Cable chamber ready installed with ROM-Box accessories and enclosed cable chamber cover, deliver and move.

Brand: ROMOLD, Typ ROM-Box 57/42 or equal

ROMOLD

THE ROM-BOX

THE HIGH-SPEED BROADBAND CHAMBER

RECTANGULAR, MODULAR, LOADS TO CLASS D 400

+ Height flexibility
+ Flexible cross-section (desired cover)
+ Flexibility for pipe connections (position and nominal width)
+ Area of application up to class D 400
+ infinitely variable height and slope compensation
+ Divisibility / buildability of existing routes
+ low wall thickness (maximum internal clearance and minimum external dimensions)
+ user-specific accessories
= effective cost savings through the use of ROMOLD cable chambers.

+ LOW COST
= THE ALTERNATIVE TO CONCRETE

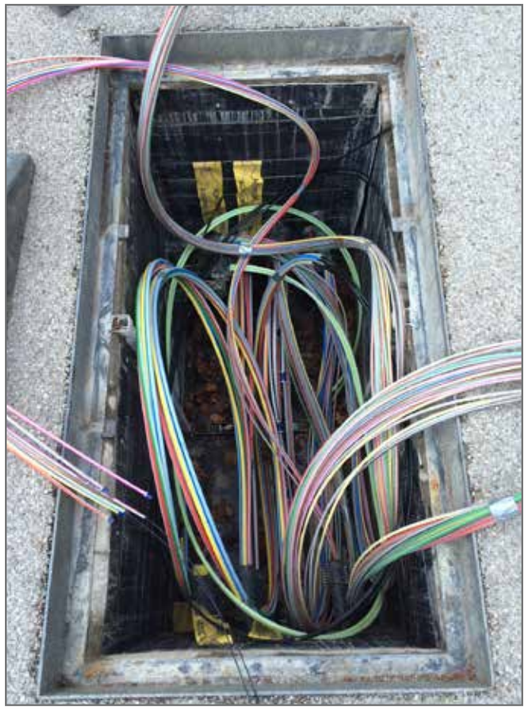
For the latest information on this topic, visit www.romold.de menu products, submenu Electrical and telecommunication, ROMOLD Broadband chamber

ALL CABLES WELL STOWED

More and more fibre-optic cables are being laid across Germany, telecom companies are upgrading, and old shafts need to be replaced.

All cables are well housed in the ROM box. Nevertheless, access is guaranteed at all times.

Cables are blown in.



Installed ROM-Box with various cable harnesses

SECURITY IS A PRIORITY

REMOTE MONITORING FOR CABLE CHAMBERS

BETTER SAFE THAN SORRY

Security is becoming increasingly important as broadband and electrical infrastructure requirements increase.

Failure of these infrastructures can lead to economic damage as well as massive private disruption.

Therefore, we offer you the option of equipping our ROM-box type rectangular cable ducts with a variety of locking systems in the chamber cover area, even passive sensors.

We are aware that there is no 100% certainty - neither against willful interference nor against other influences. However, with the above measures we are on the right track.

Our cable chamber team is happy to advise you.

SECURITY WITH SENSORS

Valuable infrastructure optimally monitored:

Opto-mechanical sensors in combination with optical metrology trigger an alarm e.g. when opening the manhole cover. The optical measurement assigns the alarm to the associated shaft / sensor with high precision.

A cable chamber monitored by these sensors ensures that any unauthorized interference with the sensitive infrastructure is immediately noticed and can be dealt with directly.

CLOSE ENCOUNTERS WITH THE ROM-BOX

INFORM YOURSELF ON-SITE

QUICK AND INFORMATIVE

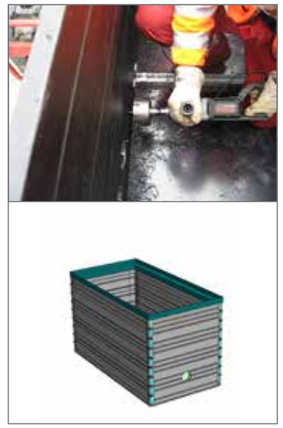
Our ROM-Box team will inform you how to work quickly and easily with our products. Visit us at the most important broadband events in Germany.

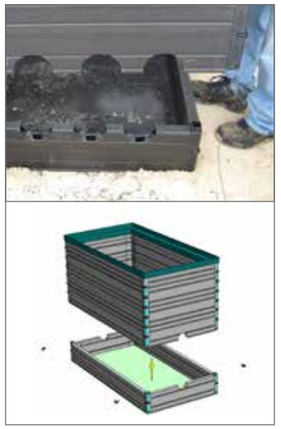
Find out here where you can meet us or talk to your sales representative.

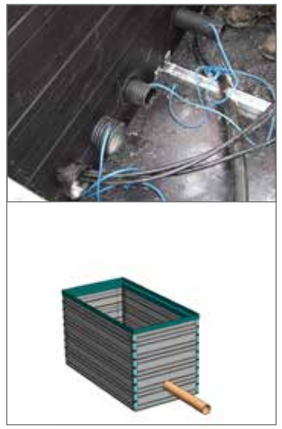
Visit our stand at the ANGA COM in Cologne or at other broadband events across Germany!

ROM-BOX

DIVISIBLE AND FOR OVERBUILDING





CHARACTERISTICS

MATERIAL:

- Polypropylene (PP), 100 % recycable
- excellent elasticity
- resistent against substances containing mineral oil and against influences from the ground
- resistant to high installation temperatures of asphalt

INSTALLATION:

- Adaptable to any cabling and routing
- in complex routes and hubs, particularly in urban areas
- easy to transport
- no lifting equipment is needed

DIVISIBLE AND FOR OVERBUILDING:

- quickly and easily divisible on site for existing cable routes (cables, cable conduits or lines) without tools, due to detachable clip connection

SPACE-SAVING:

- optimised wall thickness of max. 60 mm
- requires minimal space at maximum dimensions – a real advantage in urban areas

JOINTING:

- comes with a pre-assembled gland hole (cable, cable conduit or line) of a required nominal diameter and position, or can be quickly and easily produced on site
- nipples, or other adoption elelements (e.g. Flatliner), holders for cables and sleeves are available

VARIABLE:

- height, length and width
- height of the elements between 10 and 20 cm
- accurate alignment to the top area surface by screw levelling system
- adjustable for all commercial rectangular chambers without additional costs

SAFE:

- Ductile cast iron cover with structured surface – safely lockable
- noisless support on elastomer in the hot-dip galvanized steel chamber cover
- chamber covers are filled with concrete or paveable - allowing the design adaptation of the surface.

SOLID:

- the ROMOLD chamber cover frame is secured against uplift
- additional security is provided by ROMOLD clip-system which fastens the wall elements at its corners
- connecting corner elements prevent horizontal movement of the frame elements

RECOGNIZABLE:

- the cover can be delivered with a pre-fitted company label or a custom label can be fitted by the client

PRACTICAL:

- pre-fabricated inner-lined chamber for easy installation of grout if using height-adjustment

COMPACTING:

- Excellent back-fill material compaction due to the smooth exterior surface of the chamber

QUICK:

- short delivery times, in sufficient quantities
- a quick construction progress can be ensured by the quick and easy installation

LIGHTWEIGHT:

- quick assembly, can be installed by hand

PRACTICAL APPROACH:

- with pre-assembled pipe connections DN 40 – DN 160 or adjustable on site
- modular installation
- divisible thanks to a newly developed clip-system
- can be installed over installed pipes
- continuously variable height and inclination adjustment

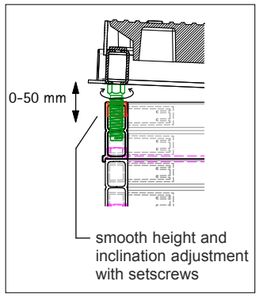
CHAMBER COVER:

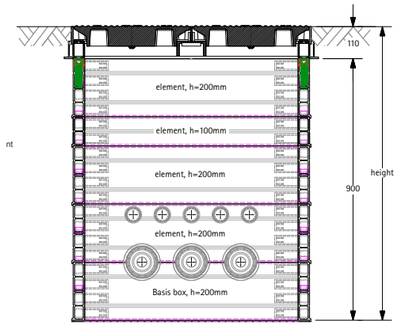
- Class B 125 and D 400 static direct load incl. locking mechanism
- Class D 400 dynamic with the Selflevel® System incl. locking mechanism

ROMOLD

ROM-BOX

INCL. HEIGHT ADJUSTMENT





exact level adjustment to the ground surface with 4 adjusting screws.

ROM-Box 30/30 total price in EUR, incl. cover and height adjustment

Height cm	Weight kg	Kl. B / Price €	Weight kg	Kl. D / Price €	Article name
71–76	53,7		53,7		ROM BOX 30 30 76 B/D
81–86	56,2		56,2		ROM BOX 30 30 86 B/D
91–96	58,4		58,4		ROM BOX 30 30 96 B/D
101–106	60,9		60,9		ROM BOX 30 30 106 B/D
111–116	63,2		63,2		ROM BOX 30 30 116 B/D

ROM-Box 40/40, total price in EUR, incl. cover and height adjustment

Height cm	Weight kg	Kl. B / Price €	Weight kg	Kl. D / Price €	Article name
71–76	75,8		75,8		ROM BOX 40 40 76 B/D
81–86	78,8		78,8		ROM BOX 40 40 86 B/D
91–96	81,6		81,6		ROM BOX 40 40 96 B/D
101–106	84,3		84,3		ROM BOX 40 40 106 B/D
111–116	87,4		87,4		ROM BOX 40 40 116 B/D

ROM-Box 40/90, total price in EUR, incl. cover and height adjustment

Height cm	Weight kg	Kl. B / Price €	Weight kg	Kl. D / Price €	Article name
71–76	106,3		138,3		ROM BOX 40 90 76 B/D
81–86	110,7		142,7		ROM BOX 40 90 86 B/D
91–96	114,7		146,7		ROM BOX 40 90 96 B/D
101–106	119,1		151,1		ROM BOX 40 90 106 B/D
111–116	123,1		155,1		ROM BOX 40 90 116 B/D

ROM-Box 40/115, total price in EUR, incl. cover and height adjustment

Height cm	Weight kg	Kl. B / Price €	Weight kg	Kl. D / Price €	Article name
71–76	135,0		181,0		ROM BOX 40 115 76 B/D
81–86	140,1		186,1		ROM BOX 40 115 86 B/D
91–96	144,8		190,8		ROM BOX 40 115 96 B/D
101–106	149,9		195,9		ROM BOX 40 115 106 B/D
111–116	154,5		200,5		ROM BOX 40 115 116 B/D

ROM-Box Typ 40/65 on request

ROM-Box 40/139, Gesamtpreis in EUR, inkl. Abdeckung, U-Rahmen und Höhenausgleich

Bauhöhe cm	Gewicht kg	Kl. B / Preis €	Gewicht kg	Kl. D / Preis €	Artikelbezeichnung
71–76	159,6		207,6		ROM BOX 40 139 76 B/D
81–86	165,4		213,4		ROM BOX 40 139 86 B/D
91–96	170,6		218,6		ROM BOX 40 139 96 B/D
101–106	176,4		224,4		ROM BOX 40 139 106 B/D
111–116	181,5		229,5		ROM BOX 40 139 116 B/D

ROM-Box 57/42, Gesamtpreis in EUR, inkl. Abdeckung und Höhenausgleich

Bauhöhe cm	Gewicht kg	Kl. B / Preis €	Gewicht kg	Kl. D / Preis €	Artikelbezeichnung
71–76	71,2		93,2		ROM BOX 57 42 76 B/D
81–86	74,8		96,8		ROM BOX 57 42 86 B/D
91–96	78,0		100,0		ROM BOX 57 42 96 B/D
101–106	81,5		103,5		ROM BOX 57 42 106 B/D
111–116	84,7		106,7		ROM BOX 57 42 116 B/D

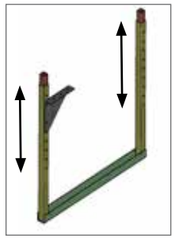
ROM-Box 57/92, Gesamtpreis in EUR, inkl. Abdeckung, U-Rahmen und Höhenausgleich

Bauhöhe cm	Gewicht kg	Kl. B / Preis €	Gewicht kg	Kl. D / Preis €	Artikelbezeichnung
71–76	135,7		179,7		ROM BOX 57 92 76 B/D
81–86	140,7		184,7		ROM BOX 57 92 86 B/D
91–96	145,1		189,1		ROM BOX 57 92 96 B/D
101–106	150,0		194,0		ROM BOX 57 92 106 B/D
111–116	154,5		198,5		ROM BOX 57 92 116 B/D

ROM-Box 57/115, Gesamtpreis in EUR, inkl. Abdeckung, U-Rahmen und Höhenausgleich

Bauhöhe cm	Gewicht kg	Kl. B / Preis €	Gewicht kg	Kl. D / Preis €	Artikelbezeichnung
71–76	156,3		182,3		ROM BOX 57 115 76 B/D
81–86	161,9		187,9		ROM BOX 57 115 86 B/D
91–96	167,0		193,0		ROM BOX 57 115 96 B/D
101–106	172,6		198,6		ROM BOX 57 115 106 B/D
111–116	177,7		203,7		ROM BOX 57 115 116 B/D

ROMOLD



U-frame for ROM-Box, adjustable height through telescopic vertical bars, construction height 80–130 cm / 120–200 cm with cable console

ROM-Box 57/142, total price in EUR, incl. cover, U-frame and height adjustment

Height cm	Weight kg	Kl. B / Price €	Weight kg	Kl. D / Prive €	Article name
71–76	188,9		259,9		ROM BOX 57 142 76 B/D
81–86	195,3		266,3		ROM BOX 57 142 86 B/D
91–96	202,5		273,5		ROM BOX 57 142 96 B/D
101–106	207,3		278,3		ROM BOX 57 142 106 B/D
111–116	213,0		284,0		ROM BOX 57 142 116 B/D

ROM-Box 75/75, total price in EUR, incl. cover, U-frame and height adjustment

Height cm	Weight kg	Kl. B / Price €	Weight kg	Kl. D / Prive €	Article name
71–76	135,5		163,5		ROM BOX 75 75 76 B/D
81–86	140,5		168,5		ROM BOX 75 75 86 B/D
91–96	143,1		171,1		ROM BOX 75 75 96 B/D
101–106	148,1		176,1		ROM BOX 75 75 106 B/D
111–116	150,7		178,7		ROM BOX 75 75 116 B/D

overbuilding of existing empty cable ducts

Element extensions H = 20 cm with all side entry openings DN 110 and sealing plug 110

ROM-Box 75/115 total price in EUR, incl. cover, U-frame and height adjustment

Height cm	Weight kg	Kl. B / Price €	Weight kg	Kl. D / Price €	Article name
71–76	209,4		251,4		ROM BOX 75 115 76 B/D
81–86	215,6		257,6		ROM BOX 75 115 86 B/D
91–96	220,9		262,9		ROM BOX 75 115 96 B/D
101–106	227,1		269,1		ROM BOX 75 115 106 B/D
111–116	231,5		274,4		ROM BOX 75 115 116 B/D

ROM-Box 75/155 total price in EUR, incl. cover, U-frame and height adjustment

Height cm	Weight kg	Kl. B / Price €	Weight kg	Kl. D / Price €	Article name
71–76	266,3		322,3		ROM BOX 75 155 76 B/D
81–86	273,6		329,6		ROM BOX 75 155 86 B/D
91–96	279,8		335,8		ROM BOX 75 155 96 B/D
101–106	287,1		343,1		ROM BOX 75 155 106 B/D
111–116	293,3		349,3		ROM BOX 75 155 116 B/D

Adaption of ROM-Box to existing routing

ROMOLD

ROM-BOX

INCL. SELFLEVEL®-COVER

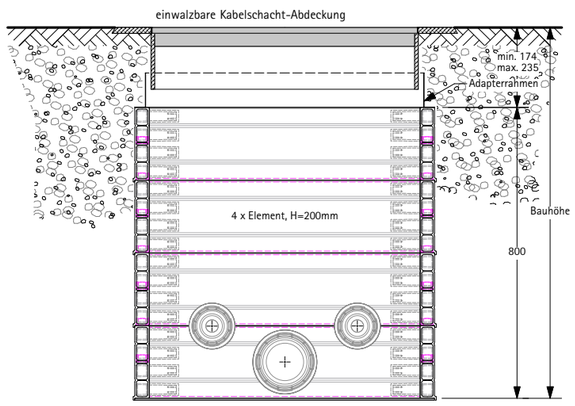
ROM-Box 70/70 SL total price in EUR, incl. cover

Height cm	Weight kg	Kl. D / Price €	Article Name
77,4–83,5	200,9		ROM BOX 70 70 83 SL D
87,4–93,5	207,2		ROM BOX 70 70 93 SL D
97,4–103,5	211,1		ROM BOX 70 70 103 SL D
107,4–113,5	217,4		ROM BOX 70 70 113 SL D
117,4–123,5	221,3		ROM BOX 70 70 123 SL D

ROM-Box 70/140 SL total price in EUR, incl. cover and U-frame

Height cm	Weight kg	Kl. D / Price €	Article Name
77,4–83,5	360,6		ROM BOX 70 140 83 SL D
87,4–93,5	369,0		ROM BOX 70 140 93 SL D
97,4–103,5	374,7		ROM BOX 70 140 103 SL D
107,4–113,5	383,1		ROM BOX 70 140 113 SL D
117,4–123,5	388,8		ROM BOX 70 140 123 SL D

Class D 400 dynamic with Selflevel® chamber cover



ROM-BOX

FOR COMMERCIAL COVERS

Head frame for anti-shift use of commercial cable chamber covers

ROM-Box 40/65 ST, total price in EUR *, incl. head frame, without cover

Height cm	Weight kg	Kl. D / Price €	Article Name
60	34,4		ROM BOX 40 65 60 ST
70	39,6		ROM BOX 40 65 70 ST
80	42,5		ROM BOX 40 65 80 ST
90	47,7		ROM BOX 40 65 90 ST
100	50,6		ROM BOX 40 65 100 ST

ROM-Box 70/70 ST, total price in EUR *, incl. head frame, without cover

Height cm	Weight kg	Kl. D / Price €	Article Name
60	44,1		ROM BOX 70 70 60 ST
70	50,3		ROM BOX 70 70 70 ST
80	54,1		ROM BOX 70 70 80 ST
90	60,3		ROM BOX 70 70 90 ST
100	64,1		ROM BOX 70 70 100 ST

ROM-Box 70/140 ST, total price in EUR *, incl. head frame and U-frame, without cover

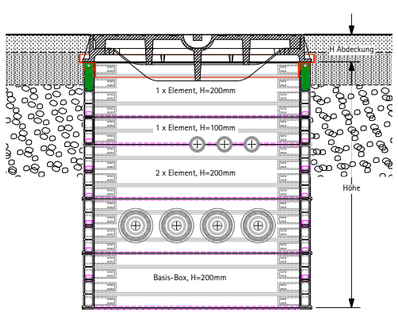
Height cm	Weight kg	Kl. D / Price €	Article Name
60	80,4		ROM BOX 70 140 60 ST
70	88,8		ROM BOX 70 140 70 ST
80	94,5		ROM BOX 70 140 80 ST
90	102,9		ROM BOX 70 140 90 ST
100	108,6		ROM BOX 70 140 100 ST

[1] without cover

* Price depending on the dimensions of the commercial covers used

ROM-Box Typ 25/55 and Typ 40/80 ST on request

Head frame (Z-profile) for adaption of commercial chamber covers



ROMOLD

ROM-BOX

FOR SPECIAL APPLICATIONS

ROM-Box with prefabricated gas mounting group

District heating chamber

District heating chamber

Hexagonal

Telenet

ROM-Box Bolt4

ROM-BOX ACCESSORIES

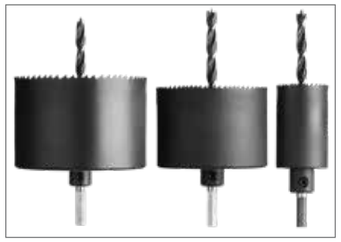
Article name	Details	Price €
KSRB cap 50	50 mm plastic plug for ROM-Box	
KSRB cap 110/40	110 50 mm plastic plug for ROM-Box	
KSRB cap 160/110	160 50 mm plastic plug for ROM-Box	
KSRB-CSS 51	Cup saw for ROM-Box, drill size 51 mm	
KSRB-CSS 111	Cup saw for ROM-Box, cutting depth ca. 45 mm, drill size 111 mm	
KSRB-CSS 161	Cup saw for ROM-Box, cutting depth ca. 45 mm, drill size 161 mm	
CSA2	Adapter for Cup Saw	
AS ROM-Box	Lift key for standard ROM-Box	
AS ROM-Box SL	Lift key for covers ROM-Box SL	
US-3 ROM-Box SD	Monkey Wrench for ROM-Box covers	
Carrier aid ROM-Box	Carry aid for ROM-BOX	
Multiplex socket	Multiplex socket joint ND 110 to ND 40 and ND 50	
Sealing element 50	Bushing input, divisible for sealing element 50 mm	
Sealing element 110	Bushing input, divisible for sealing element 110 mm	
Ladder	Access ladder steel	
	Access Ladder plastic	
Socket holder	Folding / pull-out socket holder	
KSRB-PP mounting plate	Mounting plate for retrofitting socket holders, etc.	
ROM-Box installation set V1	Drill ø 51 mm, ø 111 mm, ø 126 mm, ø 161 mm, hexagonal key (Allen key), screwdriver, cutter knife, white pen, 4 clips, 4 sealing plugs in a case suitable for construction sites	
ROM-Box installation set V2	Drill ø 51 mm, ø 111 mm, ø 161 mm, hexagonal key (Allen key), screwdriver, cutter knife, white pen, 4 clips, 4 sealing plugs in a case suitable for construction sites	

View into ROM-Box assembly set V1

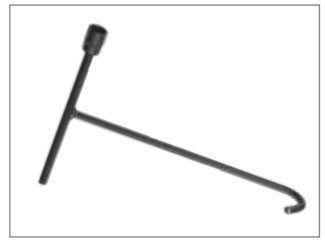
ROM-BOX ASSEMBLY SET

The practical set in the tool box is specially packed for use on the construction site. Depending on the required drills, ROMOLD can provide Set V1 or Set V2.

ROM-Box plugs



Cup saw



Universal/lifting key

CABLE CHAMBERS

ROUND, WATERTIGHT, LOADABLE UP TO CLASS D 400

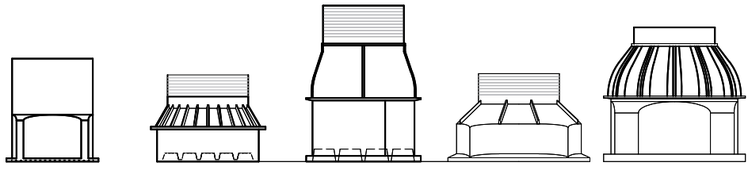
WHAT YOU NEED TO KNOW

The round cable chambers from ROMOLD are the permanent watertight solution for your cable network. They combine the stability (class D 400) and the watertightness with the flexibility of modern plastic systems.

Watertightness (0.5 bar), +/- 5° bendable pipe connections of plastic pipes are be done with Elastomer lip seal type IS (d 32 to d 200 mm). Connection is possible at any position. A permanent watertight cover is necessary for a watertight system.

No additional constructional measures are required for buoyancy prevention in case of ground water.

The cable chambers are used as cable drawing chambers, socket and cable junction chambers..



max. seals each side	KS 63/80	KS 80.63/44	FC 80.63/115	KS 100.63/53	KS 100.63/110
IS 40, IS 50	9	2	2	> 10	> 10
IS 90	6	1	2	9	8
IS 110	4	-	2	5	6
IS 125	4	-	2	4	6
IS 160	2	-	1	3	4
IS 200	1	-	1	-	2

CHARACTERISTICS

MATERIAL:

- Polyethylen (PE), 100 % virgin material
- excellent elasticity
- resistent against substances containing mineral oil and against influences from the ground
- resistant to high installation temperatures of asphalt

INSTALLATION:

- easy to transport
- no lifting equipment is needed

JOINTING:

- simple joining of cable conduits with different
- diameters on site or prefabricated in
- our factory
- additional sealing elements (watertight up to 0.5 bar)

SPACE SAVING :

- due to optimised wall thickness little space is required – a real advantage in urban areas

VARIABLE:

- diameter and height
- exact adjustment to the ground surface of the site by quick and easy shortening of the chamber ring

LOAD:

- according to EN 124; class B 125, class D 400

QUICK:

- fast delivery in sufficient quantites
- quick and easy installation guarantees efficient construction progress

STEPS:

- in chambers DN 800 and DN 1000
- according to EN 13101 and DIN 1264-2
- corrosion-resistant
- gap between the steps 25 cm
- safety steps with profiled surface

For the latest information on this topic, visit www.romold.de, Products, Electric & telecommunications, Cable chambers

CABLE CHAMBER KS 63/80

FLEXIBLE COMPLETION

The Flick forest management office demands completely sealed cable chambers for installation along forest roads.

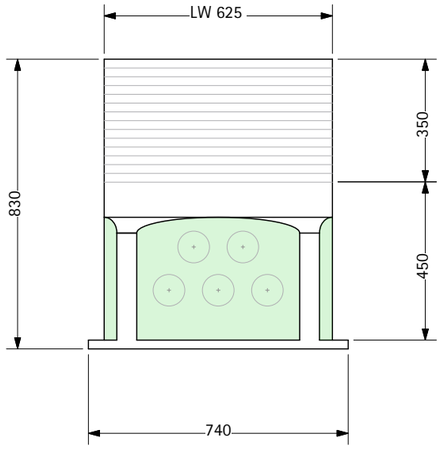
The City of Salzburg decided to use ROMOLD cable chambers due to their ease of use and flexible options for connections.

PUBLIC TENDER TEXT EXAMPLE

Cable chamber DN 625

H = 80 cm: PE cable chamber DN 625, watertight, 100 % virgin material without recycling content (ultimate elongation / elongation at tear >_ 200%), horizontal reinforcement rings to ensure uplift prevention. Height: 45–80 cm.

System ROMOLD or equal.



DN 625

Height cm	Details	Article name	Price €
45–80	PE cable chamber DN 625	**KS 63/80**	

PROJECTS WITH ROMOLD CHAMBERS

City of Salzburg: Different cable conduits were integrated in the chamber. No excavators could be used because these would have prevented the flow of traffic to the construction site. The lightweight ROMOLD PE cable chamber could easily be shifted by hand. The diameter and number of cable conduits were unknown prior to installation. The chamber was created using cup saws of Ø 32, 50 and 110 on site. Corrugated pipes and smooth PVC pipes were connected at the chamber.

A drain was made in the base of the chamber using a cup saw. The height of the chamber could be adapted easily and quickly by cutting the taper shaft ring precisely using an angle grinder (ideally a compass saw) along the provided marks. Leveling or mortar work was not necessary.

Flick forest management office: The Flick's forest management office demands completely sealed cable chambers for installation along forest roads..

For the latest information on this topic, visit www.romold.de, Products, Electric & telecommunications, Cable chambers

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ROMOLD

CABLE CHAMBER KS 80.63

LOW VERSION

Czech Railway: Transfer without crane to the cable route

Energie AG Oberösterreich: Welding of elements

Energie AG Oberösterreich: Injection of additional fiber optic cabling

Telekom Austria: ROMOLD masters the challenge

PUBLIC TENDER TEXT EXAMPLE

Cable chamber DN 800, H = 44 cm: PE cable chamber DN 800, watertight, 100 % virgin material without recycling content (ultimate elongation / elongation at tear >_ 200%), internal height 44 cm, cone ID 625, horizontal reinforcement rings to ensure uplift prevention, height: 47 cm. System ROMOLD or equal.

PROJECTS WITH ROMOLD CHAMBERS

Czech Railway: The fiber optic cable splice socket and 20m reserve cable were placed in the chamber clean and watertight. The chamber was sealed with a PE cover.

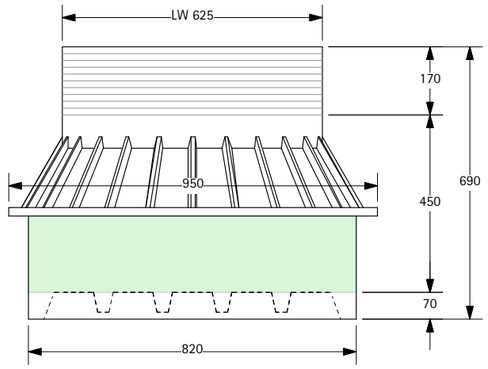
Along the railway bed there were many difficult-to-access spots. The impact on the flow of railway traffic was supposed to be kept to a minimum. For that reason, it was decided to unload the lightweight and watertight ROMOLD PE chambers directly by hand from a freight car. The schedule was not affected in any way.

FOR CHAMBER COVERS SEE PAGE 208

DN 800

Height cm	Details	Article name	Preis €
45–60	PE cable chamber DN 800/625 for underground installation (add. PE cover available)	**KS 80.63/60**	

Energie AG Oberösterreich: The task was to inject a second cable into a cable conduit that was already in use. The branch in the chamber was to be routed to a new office building. For this purpose the bottom part of the chamber base was detached using a compass saw. The chamber base was placed under the cable conduit. Afterwards, the upper part of the chamber was placed on and welded to the bottom part along the section plane and around the pipe lead-in of the continuous pipe. The cable conduit already in use was connected watertight to the chamber. The conduit could be opened in the chamber and the additional fiber optic cable was injected.



For the latest information on this topic, visit www.romold.de, Products, Electric & telecommunications, Cable chamber KS 80/63

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ROMOLD

CABLE CHAMBER FCE 80.63/115 FIBS BS

HIGH VERSION AND ACCESSABLE

Pipe joints anywhere with the ROMOLD IS seal

Example of application: overhead station

PUBLIC TENDER TEXT EXAMPLE

Cable chamber DN 800, H = 115 cm:

PE cable chamber DN 800, watertight, 100 % virgin material without recycling content (ultimate elongation / elongation at tear >_ 200%), flat corrugated bottom, with corrosion-resistant steps, vertical step distance 25 cm, cone ID 625, with horizontal reinforcement rings to ensure uplift prevention.

System ROMOLD type: FCE 80.63/115 FIBS BS or equal.

Municipal road construction

Steps may be removed if needed (cable installation)

FOR CHAMBER COVERS SEE PAGE 208

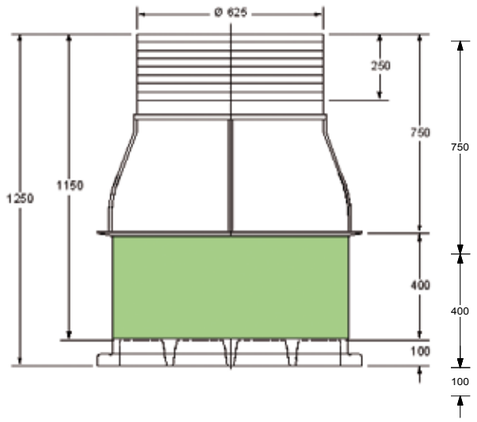
DN 800

Height cm	Details	Articel name	Preis €
90–115	PE cable chamber DN 800/625 incl. corrosion-resistant steps	**FCE 80.63/115 FIBS BS**	

PROJECTS WITH ROMOLD CHAMBERS

Traffic management systems: Watertight pipe joints of different pipe diameters are no problem thanks to the IS seal. Quick installation, reduced holdup time, and a good trip!

Municipal road construction: Installation of cable chambers has never been easier. The chamber weighs only 42 kg. Drilling with a cordless drill only takes a few minutes. No core drilling, no mortaring and no risk of injury from heavy concrete components..



For the latest information on this topic, visit www.romold.de, Products, Electric & telecommunications, Cable chamber FCE 80.63/115 FIBS BS

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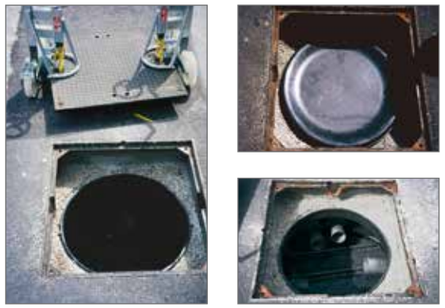
CABLE CHAMBER KS 100.63

LOW VERSION



Watertight cover system with separate sealing and bearing function.

KS 100.63/70

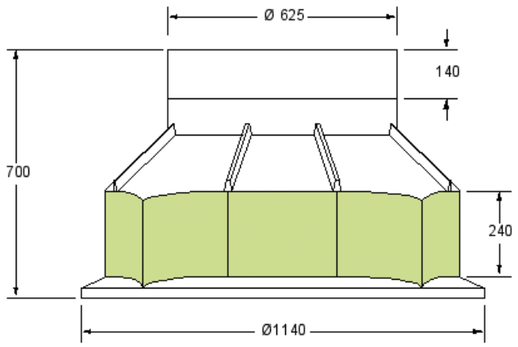
PUBLIC TENDER TEXT EXAMPLE

Cable chamber DN 1000, H=53 cm (70 cm):

PE-Cable chamber DN 1000, watertight, 100 % virgin material without recycling content (ultimate elongation / elongation at tear ≥ 200%), flat corrugated bottom, with corrosion-resistant climbing steps, vertical step distance 25 cm, cone ID 625 centred with horizontal reinforcement rings to ensure uplift prevention.

Chamber height: 60 to 70 cm.

System ROMOLD, Type: KS 100.63/70 or equal.



For the latest information on this topic, visit www.romold.de, Service, Electric and Telecommunication, Cable chamber KS 100.63

FOR CHAMBER COVERS SEE PAGE 208

DN 1000

Height cm	Details	Article name	Price €
58–72	PE cable chamber DN 1000/625 for underground installation (add. PE-cover available)	**KS 100.63/70**	

PROJECTS WITH ROMOLD CHAMBERS

City of Bratislava: ROMOLD subsurface chamber, KS 100 is used for the storage of diverse reserve cables or as dry storage for splice sockets. Watertight pipe joints were manufactured on site with a cup saw and seal IS 50. The chambers were installed between 30 and 50 cm underground.

LGH 63 D were used as watertight cover variants. Markers were placed in the chamber to facilitate subsequent locating.

ÖBB Österreichische Eisenbahngesellschaft (Austrian railway company): The splice sockets of the fiber optic cables installed along the railway line were installed watertight in a ROMOLD PE cable chamber. Their light weight allowed the chambers to be moved to the construction site without a crane. The empty conduit was swivelled out of the concrete conduits.

Due to possible variations in the length of the empty conduit caused by temperature fluctuation, this was connected to the pipe nozzle welded to the chamber with plasson fittings with friction-locking joints actuated by longitudinal forces. The fiber optic cable splice socket and 30 m reserve cable were placed clean and watertight in the chamber. The chamber was sealed using a PE cover (LGH 63 D).

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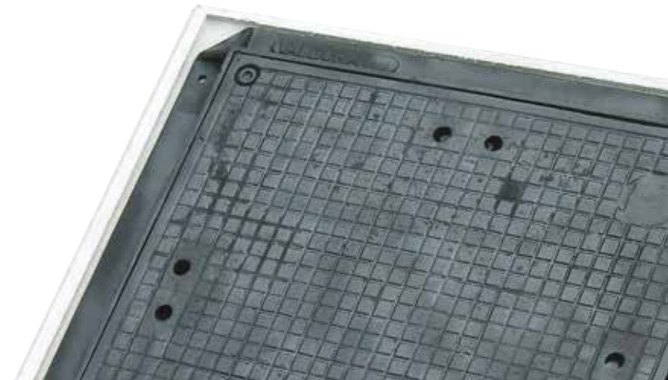


CABLE CHAMBER KS 100.63

HIGH VERSION AND ACCESSIBLE

Pulling chamber with ground

For signal installations

Pipe joint and seal installation on site

Easy to move

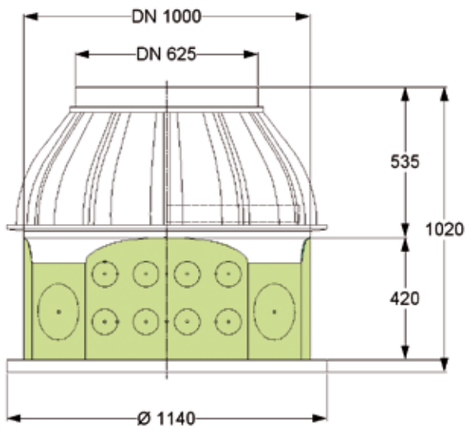
KS 100.63/110 SBL

PUBLIC TENDER TEXT EXAMPLE

Cable chamber with steps DN 1000, H=110 cm: PE-Cable chamber DN 1000, watertight, 100 % virgin material without recycling content (ultimate elongation respectively elongation at tear ≥ 200%), flat corrugated bottom, with corrosion-resistant climbing steps, vertical step distance 25 cm, cone ID 625 centred with horizontal reinforcement rings to ensure uplift prevention.

Chamber height: 100 to 110 cm.

System ROMOLD, Type: KS 100.63/110 FIBS BL or equal.



FOR CHAMBER COVERS SEE PAGE 208

DN 1000

Height cm	Details	Article name	Prie €
104–110	PE cable chamber DN 1000/625, incl. corrosion-resistant steps	**KS 100.63/110 FIBS BL**	

PROJECTS WITH ROMOLD CHAMBERS

ALDI Central Warehouse: Cable chamber KS 100.63/110 SBL for housing cabling for illuminating outdoor installations. Standard cover with concrete ring (BARD) class D 400 or class B 125. Distributor or cable laying shaft with connections. Up to eight cable conduits DA 110 have to be implemented on each side so that they are tight against sand and water.

Signal installations: ROMOLD PE cable chambers fulfill the requirements of many public utilities for completely sealed cable chambers for fiber optic cables and diverse control and street lighting systems.

The pipe joint and seal installation can be implemented flexibly on site.

The cable chamber with 13 DA 50 pipe joints and one DA 40 pipe joint for street lighting was moved by hand without difficultly (photo top right).

ROMOLD PE cable chambers ensure significant economic advantages over traditional systems over the medium and long term thanks to their complete leak-tightness and low maintenance requirements..

For the latest information on this topic, visit www.romold.de, Products, Electric & telecommunications, Cable chamber KS 100.63

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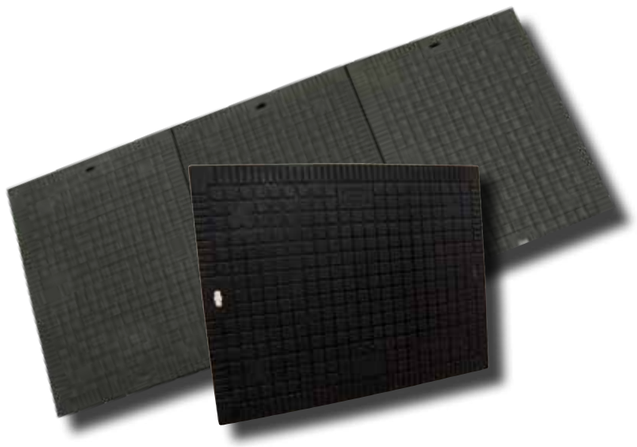
ROMOLD

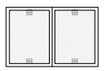
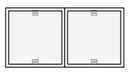
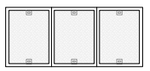
PLASTIC CABLE CHAMBER COVERS

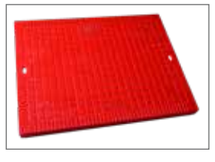
FOR RECTANGULAR AND ROUND CABLE CHAMBERS ACC. TO EN124

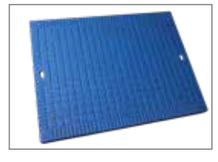


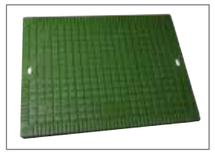
CHARACTERISTICS AT A GLANCE

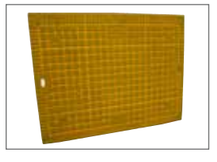
- load up to class D 400
- light weight
- user-friendly dimensions
- class D 400 is surface watertight
- class D 400 is interlocking
- permeable to radio waves
- no corrosion
- no electric induction
- chemically resistand (diesel, petrol, de-icing salt)
- anti-slip cover
- different designs
- class B 125 is lockable
- class B 125 in different colours

Class	Overview	Clear dimension l x b mm	Weight kg	Interlocking	Watertight	Color
Class B 125 (EN 124)		605 x 461	Cover 10,0 kg Frame 7,0 kg total 17,0 kg	can be secured	no	grey green red yellow blue
		605 x 605	Cover 12,0 kg Frame 8,0 kg total 20,0 kg			
		974 x 605	Cover 10,0 kg Frame 15,0 kg Total 35,0 kg			
		1268 x 605	Cover 12,0 kg Frame 17,0 kg total 41,0 kg			
		1481 x 605	Cover 10,0 kg Frame 23,0 kg total 53,0 kg			
Class D 400 (EN 124)		700 x 600	Cover 31,0 kg Frame 15,5 kg total 46,5 kg	can be secured	yes	grey
		Ø 760	Cover 36,0 kg Frame 16,0 kg total 52,0 kg			
		Ø 600	Cover 28,0 kg Frame 13,0 kg total 41,0 kg			









Class B 125 covers are available in various colours

For the latest information on this topic, visit www.romold.de, Products, Electric & telecommunications, Chamber covers

WHAT YOU NEED TO KNOW

The pastic cable chamber covers from ROMOLD are produced of glass fibre reinforced plastic in accordance with patented Thrubeam technology. The frames are made of steel/aluminium (B125) or glass fibre reinforced plastic (D400).

This material permanently resists aggressive chemicals. The covers are stainless steel, so that there are zero maintenance costs. Thanks to securely installed chamber seals, the class D 400 covers are surface watertight.

All covers are lockable or interlocking, which prevents unauthorised opening of the covers. The low weight of the plastic covers ensures optimal handling for installers and operators.

ROMOLD

CHAMBER COVERS

FOR ROUND CABLE CHAMBERS

LDD 63 GDR

PUBLIC TENDER TEXT EXAMPLE

Cover DN 625, cl. D watertight: Cover class D 400, DN 625, according to DIN 19584/EN 124, watertight with 4 interlocking bolts, cast iron lid, for direct, shift-free assembly on road foundation, construction height: 13 cm.

Type ROMOLD, or equal.

WHAT YOU NEED TO KNOW

ROMOLD chamber covers are designed especially for use with ROMOLD plastic chambers and ensure the fastest installation possible and shift-proof seating of the cover. For assembly the ROMOLD frame is fitted directly onto the chamber part.

Classification of chamber covers according to EN 124: Covers of class B 125 are suitable for walkways, pedestrian zones and comparable areas, e.g. car parking areas (group 2). Covers of class D 400 are suitable for road areas (lanes, approved for all motor vehicles) (group 4).

For latest information on this topic, visit www.romold.de, menu products, submenu electro & telecommunications, chamber covers

LG 50 DD

LGH 63 DD

LDB 63 BDR

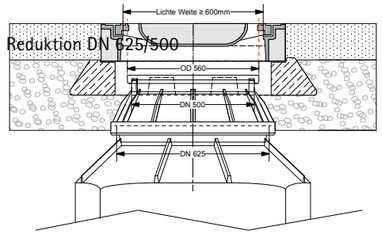
BARD 66 VSD

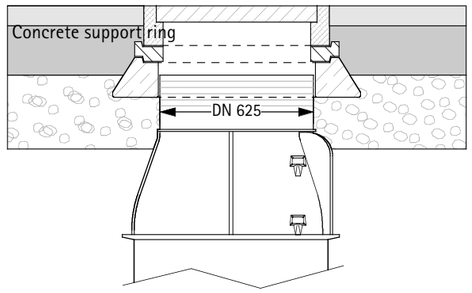
DN 500 AND DN 625 — WATERTIGHT

Height cm	Class	Details	Article name	Price €
3	accessible	PE cover DN 500, surface watertight with seal ES 50	**LG 50 DD**	
3	accessible	PE, surface watertight with seal ES 63 and two integrated handholds	**LGH 63 DD**	
4	B	surface watertight, interlockable, with ROMOLD frame, DIN 1229/EN 124	**LDB 63 BDR**	
13	D	surface watertight with four interlocks, with ROMOLD frame with supporting flange, DIN 19584/EN 124	**LDD 63 GDR**	
7	D	Concrete bearing ring for commercial surface waterproofcover	**BARD 66 VSD**	

DN 625 — NOT WATERTIGHT

Height cm	Class	Details	Article name	Price €
7	D	Concrete bearing ring for commercial cover	**BARD 66 VS**	





ACCESSORIES

JOINTS AND SEALS

INLET PIPE SEALS

for pipes	Details	Article name	Price €
da = 32 mm	Pipe seal in accordance with DIN 4060, SBR material	**IS 32**	
da = 40 mm		**IS 40**	
da = 50 mm		**IS 50**	
da = 63 mm		**IS 63**	
da = 75 mm		**IS 75**	
da = 90 mm		**IS 90**	
da = 110 mm		**IS 110 DN 100**	
da = 125 mm		**IS 125 DN 125**	
da = 160 mm		**IS 160 DN 150**	

CUP SAW AND ADAPTER

For seals	Details	Article name	Price €
Drill adapter for all cup saws		**CSA2**	
da = 32 mm (IS 32)	for pipe seal openings	**CS 32**	
da = 40 mm (IS 40)		**CS 40**	
da = 50 mm (IS 50)		**CS 50**	
da = 63 mm (IS 63)		**CS 63**	
da = 75 mm (IS 75)		**CS 75**	
da = 90 mm (IS 90)		**CS 90**	
da = 110 mm (IS 110)		**CS 110 DN 100**	
da = 125 mm (IS 125)		**CS 125 DN 125**	
da = 160 mm (IS 160)		**CS 160 DN 150**	

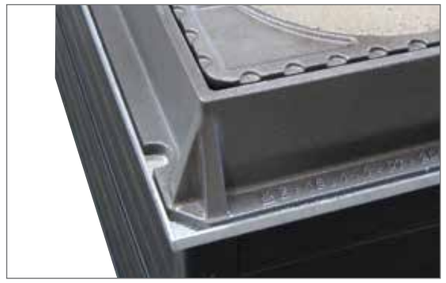
ACCESSORIES

Details	Article name	Price €
PE ring DN 625, height 10-40 cm	**E 63/40.8**	
Element seal	**ES 63**	
Reducer ND 625/500, height approx	**ER 63.50/20**	

ASSEMBLY- AND INSTALLATION NOTES

FOR ROMOLD CABLE CHAMBERS TYP ROM-BOX, RECTANGULAR

For Assembly- and installation notes „to go“: scan QR-Code.



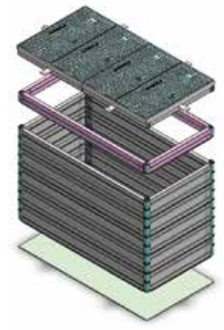
1. GENERAL INFORMATION

Cable chamber, type ROM-Box, rectangular, PP (polypropylene), 100 % recycable, sand-proof, consisting of the following components:

- Plastic chamber base (with drainage openings for penetrating surface water, drilled at ROMOLD factory if needed)
- Profile frames with an element height of 100 mm and 200 mm
- Corner elements and removable connection clips fixing profile frames together
- If necessary for chambers with side lengths > 900 mm, an additional galvanized steel U-frame, is used – the base bar is fixed in the chamber base, the telescopic vertical bars are included or pre-installed. Chamber heights > 1.20 m are equipped with an additional horizontal profile
- Entry holes for ducts can be made on site or at the factory with customizable diameter and arrangement
- Plugs for sand-proof pipe connection (if needed)
- Integrated setscrews in the top corner element of the ROM-Box for variable adjustment of height and slope of the cover relative to the road surface (as necessary)
- ROM-Box chamber covers made of galvanized steel frame, with elastomer pad, ductile iron covers interlock and lift-out opening or version for commercially available covers (depending on the required sizes)
- Carry aid (as necessary)

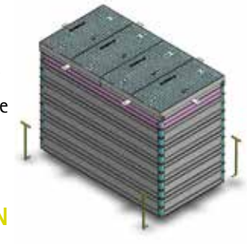
If not otherwise arranged, the ROM-Box is delivered in an assembled state. The chamber covers and, if necessary, the U-frame (base bar, vertical bars and if necessary horizontal profile) are provided for every chamber.

When using commercially available chamber covers, a galvanized steel head frame (Z-profile) is provided to accommodate the commercial chamber cover (version and material depending on the manufacturer).



2. INSTALLATION TOOLS

A commercially available drill with a cup saw and an adapter (can be purchased from ROMOLD GmbH) are necessary for making entry holes on site. Fast setting, high-strength, non-shrinking, pourable grout (see point 6.1.2) and suitable material for the external formwork are necessary for levelling joints of the height and slope adjustment.



3. INSPECTION PRIOR TO INSTALLATION

Check the delivery for completeness. Damaged parts must NOT be installed! Functionality of the cover's interlock must be checked!







4. EXCAVATION

The excavation site must be easily accessible for delivery vehicles. Excavation depth = chamber depth + cover + bedding (approx. 10 cm).

The excavation must be prepared taking into account the chamber's outer dimensions and DIN 4124 "Excavations and Trenches - Slopes, Planking and Strutting, Breadths of Working Spaces". The subsoil must possess sufficient bearing capacity, and, if necessary, the soil has to be replaced.

At the construction site, bedding consisting of 10 cm of compacted gravel/sand mixture or lean concrete mix is required at the bottom of the excavation with the appropriate slope and level.

Prior to installing the ROM-Box, it is necessary to rectify any damage or impurities that may have occurred in the gravel/sand bed in the meantime. Any groundwater that is present must be lowered to at least 20 cm below the bottom of the building pit prior to starting ROM-Box installation.

Gravel packs should be placed in the area of the planned seepage openings to facilitate drainage of penetrating surface water.

5. INSTALLATION

5.1 ROM-BOX

5.1.1 INSTALLATION OF CABLE CHAMBERS AND CABLE CONDUITS:

The ROM-Box is manually placed on the prepared gravel/sand bed (depending on its size by one or two persons, an optional carry aid can be obtained from ROMOLD GmbH) or with a light lifting device such that it is aligned and leveled.

For factory-made entry holes, the provided plugs can be cut with a knife to the necessary diameter of the empty ducts or cables or can be removed.

The entry holes can also be made on site by marking their centers and drilling them out with a commercial corded or cordless drill with a cup saw (cup saw and adapter available from ROMOLD GmbH).

Holes can be drilled anywhere, taking into consideration the generally accepted rules of good engineering - hole diameter must be at least 12 cm from the outer edge of the chamber.

Drilling recommendation: high rotational speed, low pressure (forward and backward movement of the drill bit.



It is necessary to ensure a minimum web thickness of 3 cm between holes. The U frame must be taken into account when planning the holes! The plugs, which are provided if necessary, are cut out to the necessary diameter of the empty duct or cables with a knife.

5.1.2 OVERBUILDING OF EXISTING CABLES AND CABLE CONDUITS:

The entry holes can also be made on site by marking their drilling centers just below the element joint area (joint between individual profiles) and drilling them out with a commercial corded or cordless drill with a cup saw (cup saws and adapter available from ROMOLD GmbH). Recommendation: Drill from inside the chamber outwards.

After removing the clip system (using a screwdriver or similar) by the separable element joint, the upper part of the ROM-Box can be separated from the bottom part by hand. The bottom part of the ROM-Box is placed under the existing empty conduits or cables and then the upper part of the ROM-Box is placed back on the bottom part. The ROM-Box is locked and complete again after the clips are reinserted, without requiring tools.

Should the cable chambers have a side length of 900 mm or more, U frames (consisting of one horizontal and two vertical galvanized steel bars) are to be used.

The vertical bars are to be removed before installing the bottom part and then reinstalled.

5.2 BACKFILLING AND COMPACTING

Prior to backfilling and compacting, the vertical bars of the U frame (for side lengths greater than 900 mm), and perhaps the horizontal profiles and the frame or head frame (Z profile) of the cover must to be installed. The vertical bars are inserted in the base bar from above after the frame or Z frame with the mounting sleeves is inserted at the vertical bars.

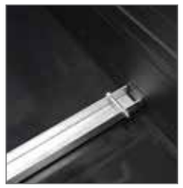
Make sure that non-cohesive materials are used as backfill material. The maximum grain size of round grain material is 32 mm, in case of crushed stone material the max. grain size is 16 mm. The backfill material must satisfy the requirements G1 or G2 as per ATV A-127, Section 3.1.

The backfill material has to be installed carefully and in layers with a thickness of 20 to 40 cm and compacted using a medium-heavy vibratory tamper (approx. 50 kg). The number of necessary compaction passes per layer depending on backfill material, fill height and compaction equipment, can be taken from table 6 of ENV 1046 and/or table 2 of DWA A 139..

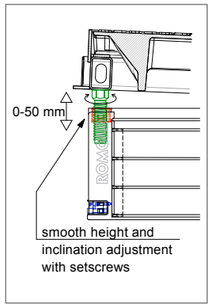
5.3 SUBSEQUENT INCREASE OF THE CHAMBER

Before lifting off the cover frame, the vertical bars must be horizontally braced. The top ROM-Box frame (head frame) can be lifted off after removing the clip system. Place the extension frame (100 mm or 200 mm profile) and fit the head frame (inser

U-frame telescopic







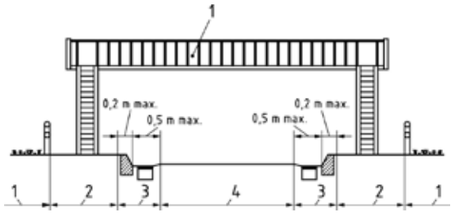
ting the clips for fixing). Then pull out the telescopic vertical bars to the increased height of the chamber and screw in place the telescopic vertical bars.

Note: any horizontal profiles are to be mounted in the middle (or at one third and two thirds) of the chamber height.

6 CHAMBER COVERING

Covers shall be used in accordance with their load class based on the classifications of DIN EN 124.

In combination with the ROMBOX cover class D 400 / a commercially available cover class D 400 according to EN 124, group 4 (min. class D 400) the ROM-Box is



suitable for use of roads and parking areas, certified for all types of road vehicles.

For more heavily used areas, a rolled cover is necessary (see point 6.3).

6.1 ROM-BOX CHAMBER COVERS:

The chamber covers consist of: Cover frames made of galvanised steel and ductile iron covers with interlock, In case of multipart covers, it is necessary to ensure the proper seating of the additional horizontal cover supports (T-bar). The T-bars can be removed to facilitate easy access to the chamber and prevent the covers from falling into the chamber. Prior to installing the covers, the bearing areas of the chamber cover's frame and the elastomer pads must be cleaned carefully.

Covers are to be checked for completeness and good order and condition prior to installation. Damaged parts must NOT be installed. Modifications to the product and combination with products from other manufacturers could adversely impact the functionality and affect the warranty.

6.1.1 VERSION WITHOUT VARIABLE ADJUSTMENT OF HEIGHT AND SLOPE TO TOP EDGE OF ROADWAY:

The chamber cover frame is placed directly on the top profile frame of the ROMBOX. The top profile frame is equipped with protection against displacement (internal formwork wall). Prior to installing the covers, the bearing areas of the chamber cover's frame and the elastomer seal pads in the chamber cover's frame are to be cleaned carefully.

6.1.2 VERSION WITH VARIABLE ADJUSTMENT OF HEIGHT AND SLOPE TO TOP EDGE OF ROADWAY:

The variable adjustment of height and slope of the chamber's cover relative to the top edge of roadway has to be done using grout (e.g. Dywipox HG Mörtel, P & T EuroGrout® Plast Unterstopfmörtel, Topolit® Fix Plast, ROMEX Schachtmörtel – ROMPOX Typ 4000 HR or similar) in accordance with DIN 18555 in the circumferential levelling joint and with the provided setscrews.

The plastic setscrews located in the corner elements allow adjustment of the cover frame to the necessary level between 0 and 5 cm and to the required slope. Circumferential external formwork has to be provided and fixed.

Afterwards the circumferential levelling joint between the existing internal formwork and the external formwork has to be filled completely with grout. The setscrews are not designed for point load support. The use of stones, wood, concrete chunks or similar as spacers for aligning the cover frame relative to the surface of the roadway is NOT permitted.

When using grout on site, it is necessary to observe the manufacturer's instructions and load information.

The chamber covers shall be certified for vehicle loads in accordance with the grout manufacturer's specifications. The covers are removed, installed and locked using conventional tools, which can also be purchased from ROMOLD GmbH (e.g. Universal key: type US-3).

6.2 COMMERCIAL CHAMBER COVERS:

Commercial chamber covers shall be used in accordance with their load class based on the classifications of DIN EN 124. The chamber covers consist of chamber cover frames and covers (version and material based on manufacturer) and head frames (Z frames) made of galvanized steel.

The chamber covers are to be checked for completeness and good order and condition prior to installation. Damaged parts must NOT be installed. The head frame (Z profile) is placed directly on the top profile frame of the ROM-Box. The head frame protrudes into the ROM-Box, protecting the cover from displacement.

6.3 SELFLEVEL® CHAMBER COVERING:

When using GAV Selflevel covers, the adapter frame is fastened to the top profile in the factory. See the GAV installation instructions for further installation of this cover!

ROMOLD

ASSEMBLY- AND INSTALLATION NOTES

FOR ROMOLD CHAMBER COVERS TYP KS ROUND

1. GENERAL

ROMOLD chambers, Typ KS round, made of Polyethylen, are (as needed) to be laid out as a waterproof model.

Check the delivery for completeness. Damaged parts must NOT be installed!

2. EXCAVATION

The chamber pit must be designed in such a way that a back-fill width of at least 30 cm around the chamber is ensured.

The subsoil must possess sufficient bearing capacity, if necessary, the soil has to be replaced. At the construction site, bedding consisting of 10 cm of compacted gravel/sand mixture or lean concrete mix is required at the bottom of the excavation with the appropriate slope and level.

3. DRILLING OF EMPTY CONDUIT

3.1 DRILLING:

The entry holes can be made at the factory or on site.

Prior to drilling, the chamber should be placed in the trench to check the connection facility. The drill hole position is to be marked. The drill holes are to be placed with sufficient distance to each other and to the stiffening ribs.

The drill holes has to be made with a ROMOLD cup saw and a commercial corded or cordless drill. The opening has to be deburred and cleaned and the seal inserted without any lubricants. The labeled side of the seal has to be outside the chamber.

3.2 EMPTY CONDUIT CONNECTION:

All seals are to be cleaned of contamination and checked for their proper fitting. Seals and pipe ends are to be supplied with suitable lubricant. Push the empty conduits into the seals.

To be sure of a watertight empty conduit connection, the empty conduits have to be placed at right angles (±5°) to the chamber wall. This may require exposing the empty conduits to a large distance from the chamber to ensure enough flexibility. The low weight of the chamber allows the chamber to be pushed onto the empty conduit.

For a watertight connection of corrugated pipes, please use adapters to plain pipes, offered by the conduit manufacturer.

3.3 TRIPLE CONDUIT

Cut connection foil to length of approx. 1 m. Scrape clean around the seal area. Empty conduit should be inserted 15–20 cm into the chamber.

Ensure enough distance between the conduits to alow assembly of clamps. The conduits can be mounted side by side or alternately.

4. INSTALLATION

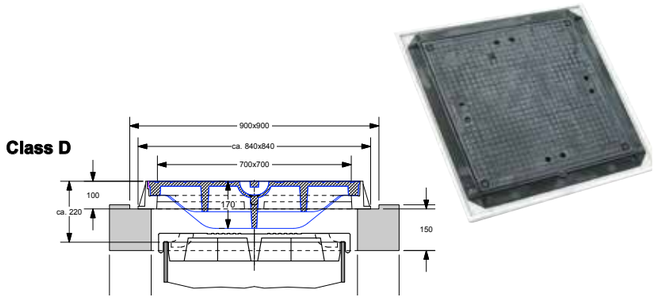
All the subsequent installation parameters must be permanently ensured!

For example, employ appropriate measures to avoid rinsing out fine material (by using fleece, clay cross-beam or similar).

4.1 BACKFILLING AND COMPACTING:

The backfill material must satisfy the requirements G1 or G2 as per ATV A-127, Section 3.1.

Grain size: round grain < 32 mm
broken material < 16 mm



For Assembly- and installation notes „to go": scan QR-Code.

Bigger stones than above contact the chamber wall.

The backfill material has to be installed carefully and in layers with a thickness of 20 to 40 cm and compacted using a medium-weight vibration tamper (approx. 50 kg).

The number of necessary compaction passes per layer depending on backfill material, fill height and compaction equipment, can be taken from table 6 of ENV 1046 and/or table 2 of DWA A 139.

During compacting, a ROMOLD PE site cover (yellow) or ROMOLD cast iron frame should be put on to stiffen the chamber neck.

Caution: If lean concrete is used as backfill material, subsequent integrating of empty conduit is not possible..

4.2 HEIGHT ADJUSTMENT:

To adjust the height, shorten the neck of the upper unit. ROMOLD PE manholes with diameters of DN 625 can be shortened by up to 30 cm, diameters of DN 800 and DN 1000 up to 25 cm. The cutting is to be done with a saw along the marked ribs. The resulting cut needs to be deburred.

5. CHAMBER COVER

Ensure cleanliness when fitting covers. All seals have to fit cleanly. To avoid additional cleaning, put the cover on a clean base (plastic sheet, wooden) after lifting.

5.1 PE-COVER, TYP: LGH 63 DD

First assemble the seal with the chamber cone. Lubricate the seal and put PE cover on.

5.2 CAST IRON INFILL COVER, WATER-PROOF, TYP: LDB 63 BDR:

Please see assembly instruction (included with cover).

5.3 CONCRETE BEARING RING WITH COMMERCIAL COVER UP TO CLASS D 400

The concrete bearing ring for commercial cover class D 400 directs the traffic load into the roadbed and away from the PE chamber. Therefore ensure that there is no direct load contact between the concrete ring and PE chamber after installation of the concrete bearing ring.

Decoupling of the PE chamber and concrete bearing ring as well as shifting prevention is ensured by their overlapping about 7 cm. The total construction height of concrete bearing ring and commercial cover class 400 is approx. 24 cm (without AR-V 625) and has to be taken into account during height adjustment of chamber.

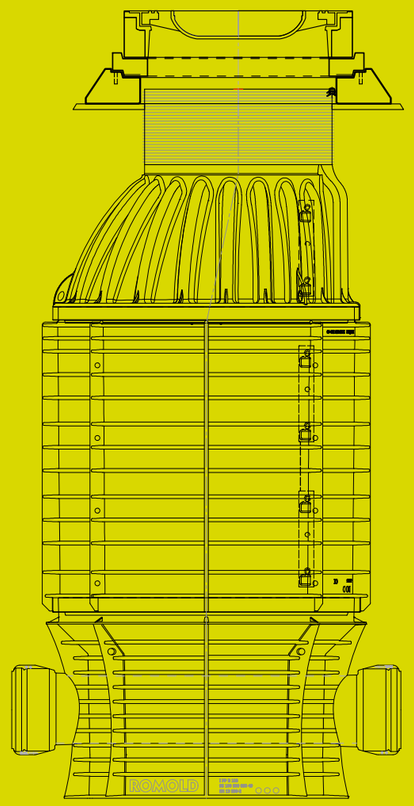
If using a concrete bearing ring with seal (type: BARD 66 VSD), correct fit and the seal compression msut be ensured..

5.4 INSTALLATION OF LGH 63 DD WITH CAST IRON COVER 700 X 700:

This cover combination provides a tight and maintenance-free solution where sealing and carrying functions are separated.

The concrete overlay for commercial covers class B/D 700 x 700 must bedded on compact backfill material. For fitting of the PE cover please see Point 5.1.

PROJECT QUESTIONNAIRE



ROMOLD

CONTENT PROJECT QUESTIONNAIRE

For overview project questionnaire scan QR-Code

PROJECT QUESTIONNAIRE

ROMOLD PP-ROM-Box with commercial cover

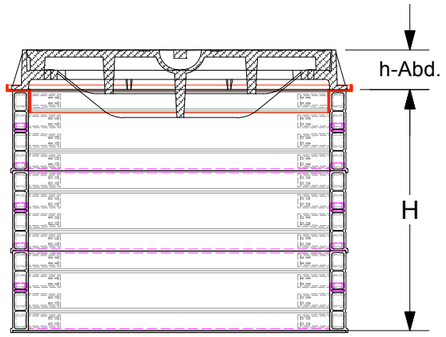
Romold GmbH
Sägewerkstraße 5
D-83416 Surheim
Tel: +49-8654-4768-0
Fax: +49-8654-4768-47
E-mail: verkauf@romold.de

☐ order ☐ request for information

project: _____

chamber no.: _____

height H [cm]: _____
surface - bottom



cover classification:
class: o B125 o D400
please indicate

cover:
type: _____
model: _____
height adjustment: o yes o no
please indicate

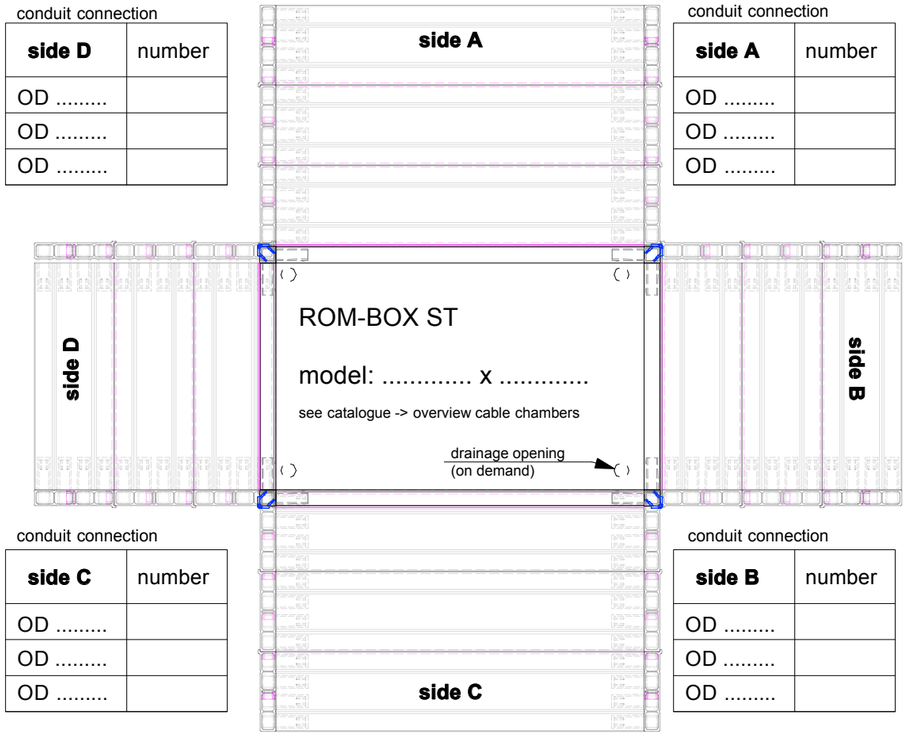
drainage opening in base plate: o yes o no
please indicate

conduit connection

side D	number
OD	
OD	
OD	

conduit connection

side A	number
OD	
OD	
OD	



conduit connection

side C	number
OD	
OD	
OD	

conduit connection

side B	number
OD	
OD	
OD	

company: _____

contact person: _____

tel. / fax: _____

E-mail: _____

stamp

_____
date, signature

Project QUESTIONNAIRE

ROMOLD PP-ROM-Box with ROMOLD cover

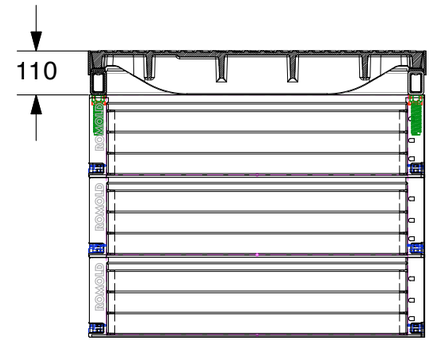
Romold GmbH
Sägewerkstraße 5
D-83416 Surheim
Tel: +49-8654-4768-0
Fax: +49-8654-4768-47
E-mail: verkauf@romold.de

☐ order ☐ request for information

project: _____

chamber no.: _____

height h[cm]: _____
surface to bottom



cover classification:
class: o B125 o D400
please indicate

cover system:
height adjustment: o yes o no
locker: o hexagon o telenet
please indicate

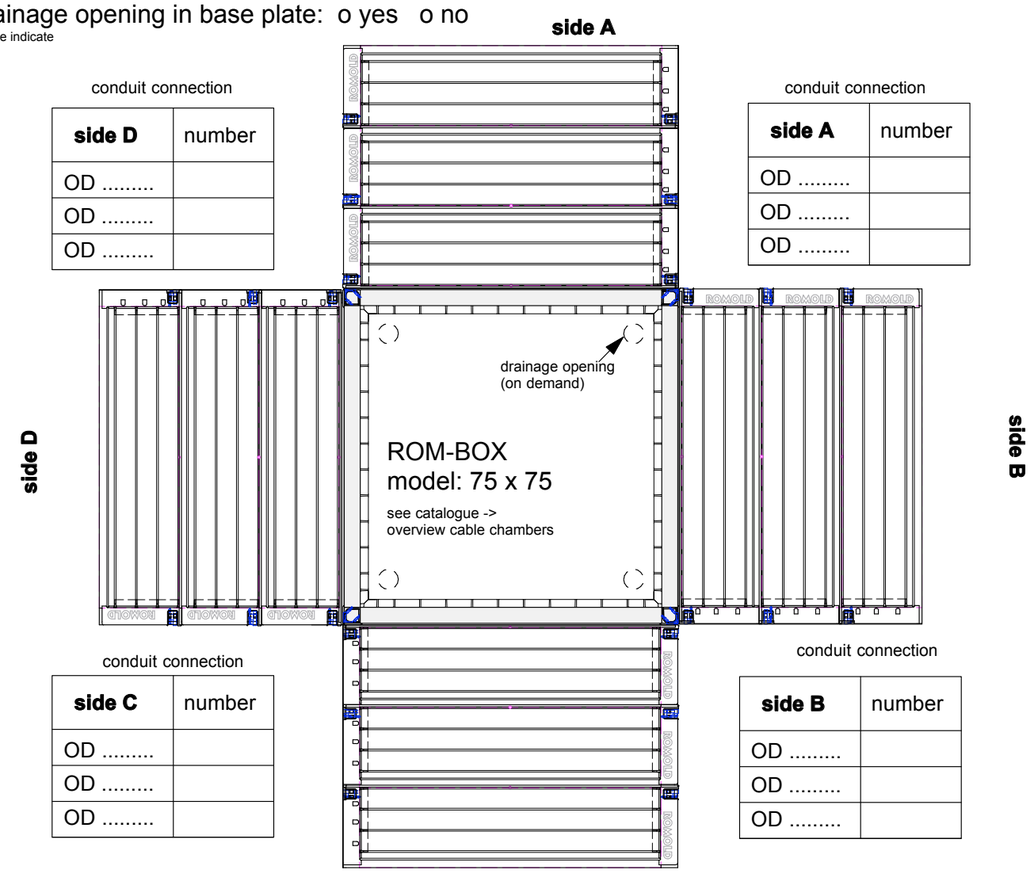
drainage opening in base plate: o yes o no
please indicate

conduit connection

side D	number
OD	
OD	
OD	

conduit connection

side A	number
OD	
OD	
OD	



conduit connection

side C	number
OD	
OD	
OD	

conduit connection

side B	number
OD	
OD	
OD	

company: _____

contact person: _____

tel. / fax: _____

E-mail: _____

stamp

_____
date, signature

PROJECT QUESTIONNAIRE

Romold GmbH
Sägewerkstraße 5
D-83416 Surheim
Tel: +49-8654-4768-0
Fax: +49-8654-4768-47
E-mail: verkauf@romold.de

ROMOLD

ROMOLD PP-ROM-Box with ROMOLD cover

☐ order ☐ request for information

project: _____

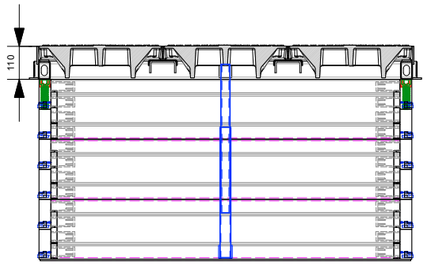
chamber no.: _____

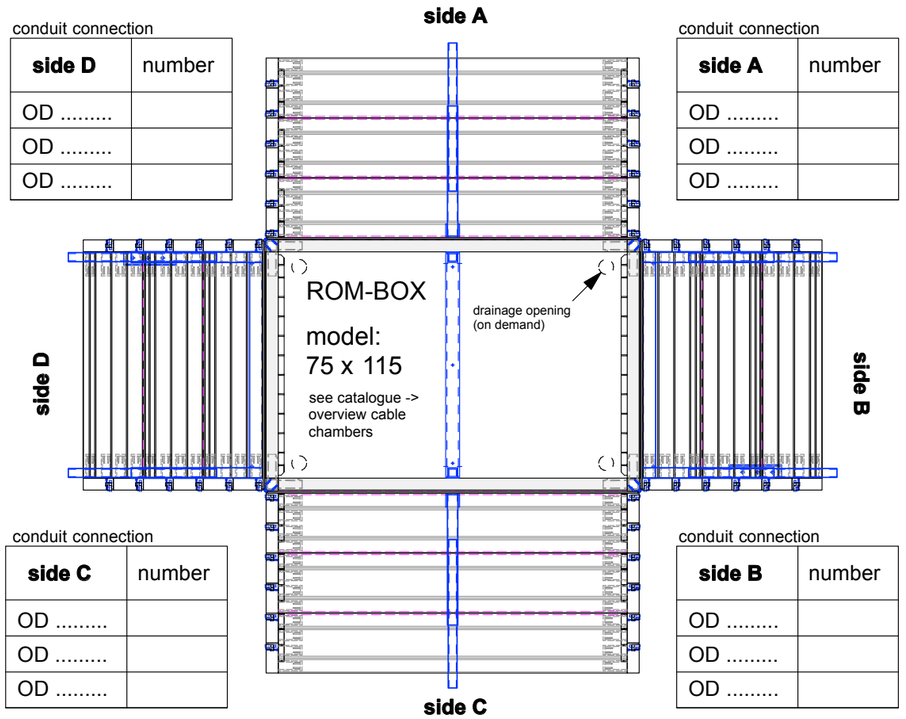
height H [cm]: _____
surface to bottom

cover classification:
class: o B125 o D400
please indicate

cover system:
height adjustment: o yes o no
locker: o hexagon o Telenet
please indicate

drainage opening in base plate: o yes o no
please indicate





company: _____

contact person: _____

tel. / fax: _____

E-mail: _____

stamp

_____
date, signature

PROJECT QUESTIONNAIRE

Romold GmbH
Sägewerkstraße 5
D-83416 Surheim
Tel: +49-8654-4768-0
Fax: +49-8654-4768-47
E-mail: verkauf@romold.de

ROMOLD

ROMOLD PP-ROM-Box with ROMOLD cover

☐ order ☐ request for information

project: _____

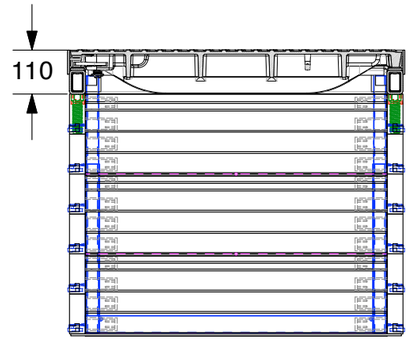
chamber no.: _____

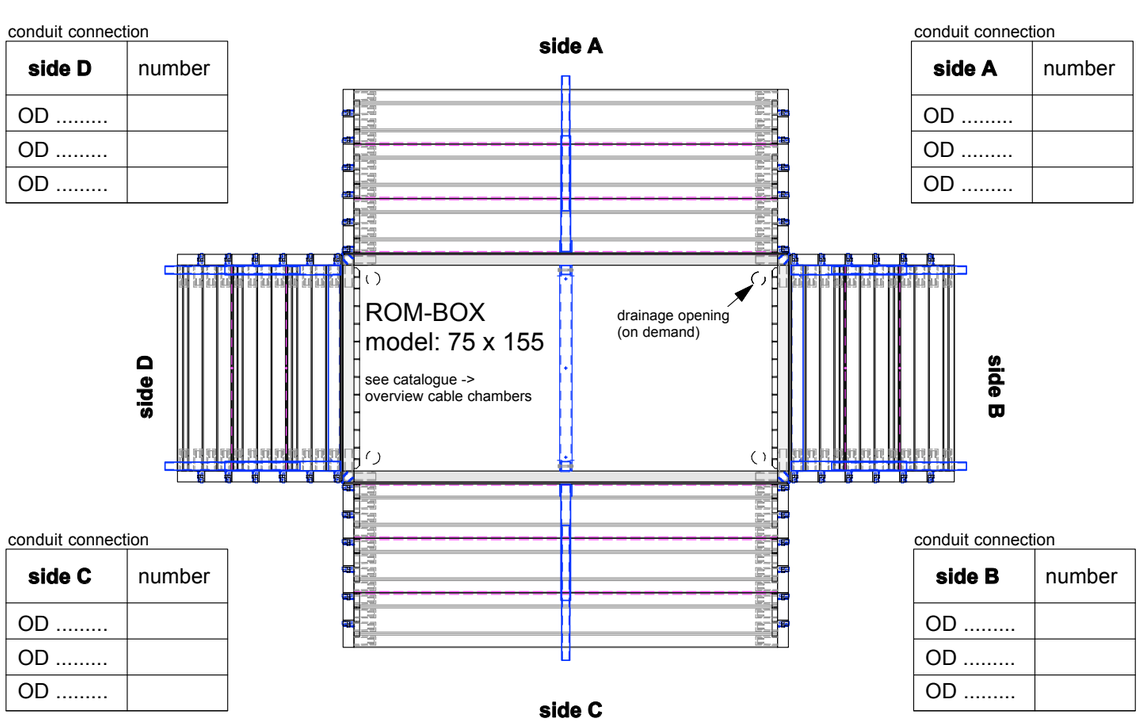
height H [cm]: _____
surface to bottom

cover classification:
class: o B125 o D400
please indicate

cover system:
height adjustment: o yes o no
locker: o hexagon o Telenet
please indicate

drainage opening in base plate: o yes o no
please indicate





company: _____

contact person: _____

tel. / fax: _____

E-mail: _____

stamp

_____
date, signature

PROJECT QUESTIONNAIRE

ROMOLD PE- cable chamber DN 1000, water tight low model

Romold GmbH
Sägewerkstraße 5
D-83416 Surheim
Tel: +49-8654-4768-0
Fax: +49-8654-4768-47
E-mail: verkauf@romold.de

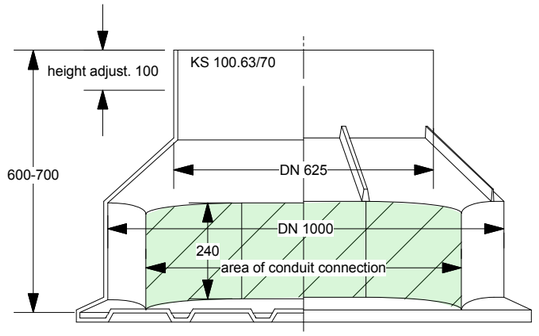
ROMOLD

☐ order ☐ request for information

project: _____

chamber no.: _____

model: **KS 100.63/70**, height H=60-70cm



*) for informations regarding max. conduit connection see internet:
www.romold.de -> products -> electric and telecommunications -> cable chambers model KS/FC

o ROMOLD - system cover:
class: o PE- lid o A15 o B125 o D400
please indicate

o concrete load distribution ring
for commercial, water tight cover system
up to class D400

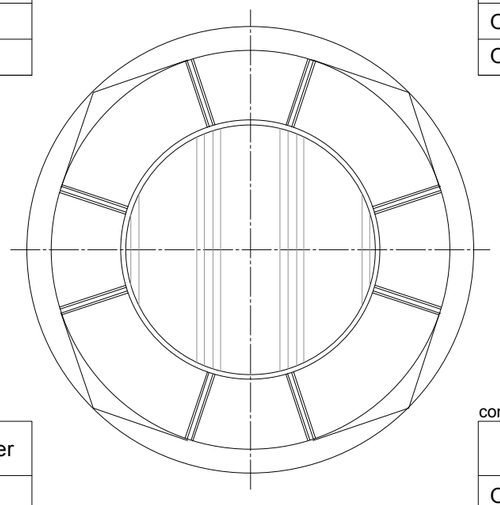
conduit connection*)

side D	number
OD	
OD	
OD	

side A

conduit connection*)

side A	number
OD	
OD	
OD	



side D **side B**

side C

conduit connection*)

side C	number
OD	
OD	
OD	

conduit connection*)

side B	number
OD	
OD	
OD	

company: _____

contact person: _____

tel. / fax: _____

E-mail: _____

stamp

_____
date, signature

PROJECT QUESTIONNAIRE

ROMOLD PE- cable chamber DN 1000, water tight high model, accessible

Romold GmbH
Sägewerkstraße 5
D-83416 Surheim
Tel: +49-8654-4768-0
Fax: +49-8654-4768-47
E-mail: verkauf@romold.de

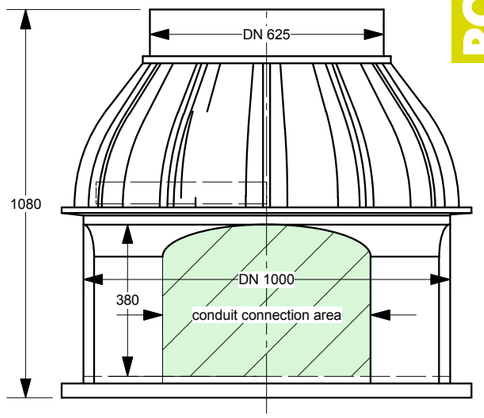
ROMOLD

☐ order ☐ request for information

project: _____

chamber no.: _____

model: o **KS 100.63/110 SBL**
height H=ca.108cm



*) for informations regarding max. conduit connection see internet:
www.romold.de -> products -> electrics and telecommunikations -> cable chambers model KS/FC

o ROMOLD - system cover:
class: o PE- lid o A15 o B125 o D400
please indicate

o concrete load distribution ring
for commercial, water tight cover system
up to class D400

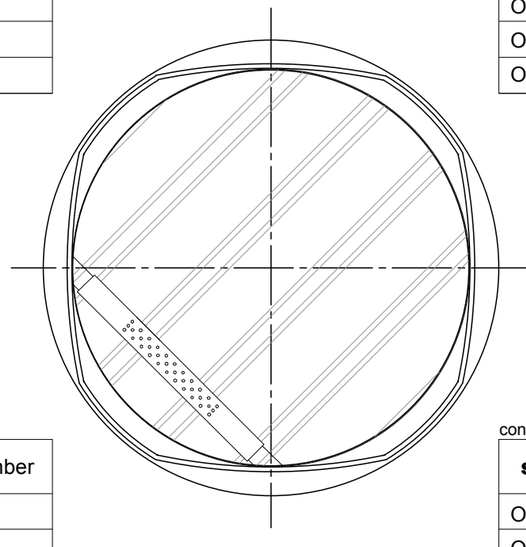
conduit connection*)

side D	number
OD	
OD	
OD	

side A

conduit connection*)

side A	number
OD	
OD	
OD	



side D **side B**

side C

conduit connection*)

side C	number
OD	
OD	
OD	

conduit connection*)

side B	number
OD	
OD	
OD	

company: _____

contact person: _____

tel. / fax: _____

E-mail: _____

stamp

_____
date, signature

PROJECT QUESTIONNAIRE

ROMOLD PE- cable chamber DN 800, water tight low model

Romold GmbH
Sägewerkstraße 5
D-83416 Surheim
Tel: +49-8654-4768-0
Fax: +49-8654-4768-47
E-mail: verkauf@romold.de

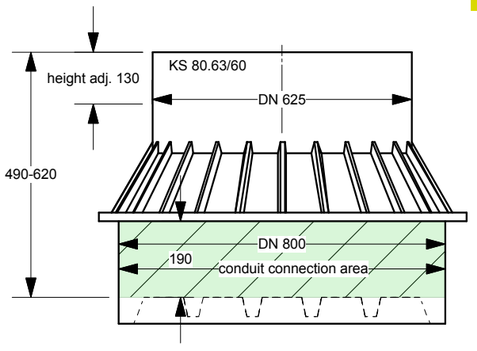
ROMOLD

☐ order ☐ request for information

project: _____

chamber no.: _____

model: **KS 80.63/60,** height H 49-62cm



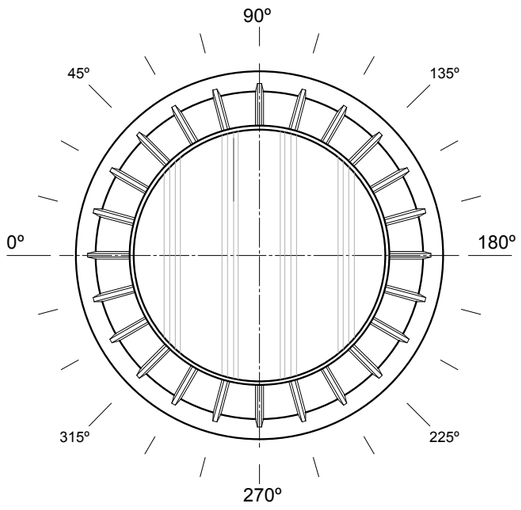
o ROMOLD - system cover:
class: o PE- lid o A15 o B125 o D400
please indicate

o concrete load distribution ring
for commercial, water tight cover system
up to class D400

Conduit connection*) with each seal exclusively vertical to the chamber wall.

Please draw in the position and diameter of each conduit connection.

*) for informations regarding max. conduit connection see internet:
www.romold.de -> products -> elektric and telecommunikations -> cable chambers model KS/FC



company: _____

contact person: _____

tel. / fax: _____

E-mail: _____

stamp

_____
date, signature

PROJECT QUESTIONNAIRE

ROMOLD PE- cable chamber DN 800, water tight high model, accessible

Romold GmbH
Sägewerkstraße 5
D-83416 Surheim
Tel: +49-8654-4768-0
Fax: +49-8654-4768-47
E-mail: verkauf@romold.de

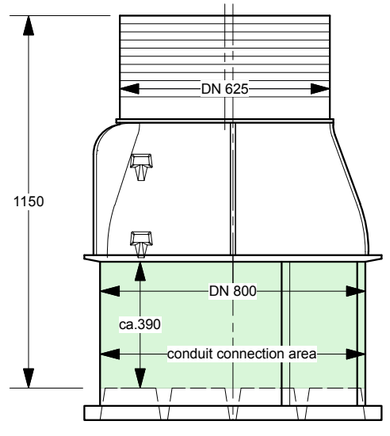
ROMOLD

☐ order ☐ request for information

project: _____

chamber no.: _____

model: o **FCE 80.63/115 FIBS BS**
height H=115cm



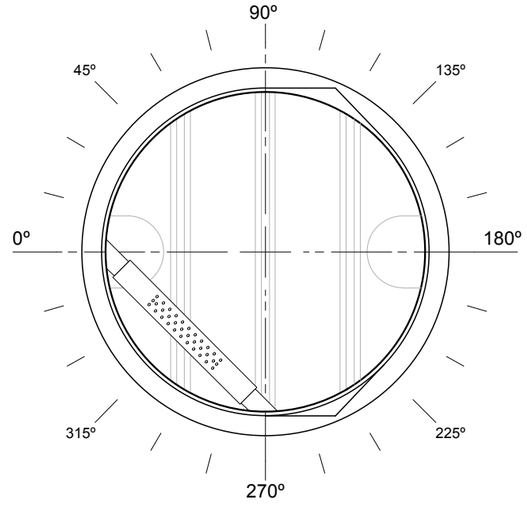
o ROMOLD - system cover:
class: o PE- lid o A15 o B125 o D400
please indicate

o concrete load distribution ring
for commercial, water tight cover system
up to class D400

Conduit connection*) with each seal exclusively vertical to the chamber wall.

Please draw in the position and diameter of each conduit connection.

*) for informations regarding max. conduit connection see internet:
www.romold.de -> products -> electric *& telecommunikations -> cable chambers model KS/FC*



company: _____

contact person: _____

tel. / fax: _____

E-mail: _____

stamp

_____
date, signature

PROJECT QUESTIONNAIRE

ROMOLD PE- cable chamber DN 625, water tight

Romold GmbH
Sägewerkstraße 5
D-83416 Surheim
Tel: +49-8654-4768-0
Fax: +49-8654-4768-47
E-mail: verkauf@romold.de

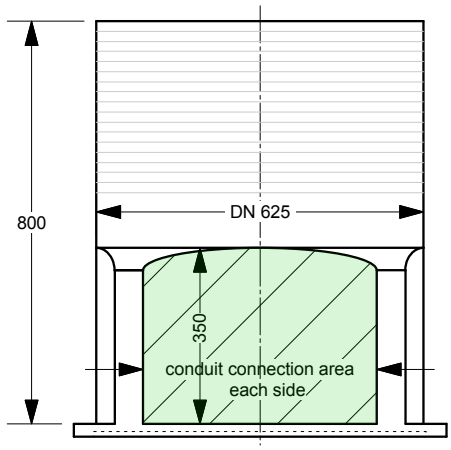
ROMOLD

☐ order ☐ request for information

project: _____

chamber no.: _____

model: o **KS 63/80**
height H=80cm



o ROMOLD - system cover:
class: o PE- lid o A15 o B125 o D400
please indicate

o concrete load distribution ring
for commercial, water tight cover system

*) for informations regarding max. conduit connection see internet:
www.romold.de -> products -> electric & telecommunications
-> cable chambers model KS/FC

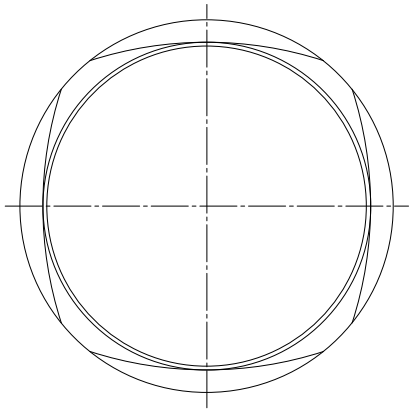
conduit connection*)

side D	number
OD	
OD	
OD	

side A

conduit connection*)

side A	number
OD	
OD	
OD	



side D

side B

conduit connection*)

side C	number
OD	
OD	
OD	

side C

conduit connection*)

side B	number
OD	
OD	
OD	

company: _____

contact person: _____

tel. / fax: _____

E-mail: _____

stamp

_____
date, signature

ROMOLD

GERMANY

ROMOLD GmbH

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83416 Surheim

Germany

Phone: +49 (0) 86 54/47 68-0

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Email: info@romold.de

www.romold.de

A directory of our field representatives is available at:
www.romold.de, menu contact.