PRODUCT OVERVIEW

FEED FOR YOUR BUSINESS.

A.B.S. FLEX-SILOS FOR AGRICULTURE.



ABOUT A.B.S.

More than 100,000 A.B.S. Silos installed worldwide give you the certainty of having found a competent partner for your company. As experts for flexible storage systems, our team knows exactly what is important! We can help you with the planning process and give you advice and suggestions on how to integrate A.B.S. silos into your workflows while making best possible use of the available space. So you can save time and a lot of money.

MORE ROOM FOR BULK MATERIALS. MORE ROOM FOR PARTNERSHIPS.



» IN PRINCIPLE, A.B.S.
CAN SUPPLY ALMOST
ANYTHING AND WHAT
THERE IS NOT, THE
COMPANY MAKES SO
THAT IT FITS.«



Lukas Berberich, Rütschdorfer Strohschweine



» THE ADVANTAGE OF A.B.S. FABRIC SILOS IS THAT WE DON'T GET ANY CONDEN-SATION AND CAN STORE FEED OF VERY HIGH QUALITY.«

Tobias Schiffmann, Odenwälder Bioinsel

Video on the Internet >>>

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TURNING OLD INTO NEW

WE SPECIALISE IN VARIETY.

PRODUCTION ACCORDING TO YOUR REQUIREMENTS.

WIDE RANGE OF TESTED FABRICS

From breathable to coated fabrics

> We produce all feed and grain silos using our high-strength breathable fabric which reliably prevents the formation of mould. Our coated fabric is used for storing mineral nutrients. For outdoor silos, we use a fabric that is coated on both sides.

If required, we will produce food-proof silos for you

- > The fabric meets all requirements of Regulation (EC) No. 1935/2004 and particularly of Regulation (EU) No. 10/2011.
- > Our food-safe fabric has been tested by an accredited testing institute.
- > For your buyers from the milk and meat processing sector, these offer the guaranteed characteristics that the used animal feed is stored in appropriate food-safe silos. Decide yourself which fabric is used for manufacturing your silo!

Tested quality with seven-fold safety

- > We monitor the fulfilment of our quality requirements by means of regular in-house and external tests of the fabric and the seam connections. For the external tests, we are supported by the Hohenstein Research Institute.
- > All our silos are developed with at least seven-fold safety for seam and fabric.



YOUR EXTRA VOLUME PLUS

> The special A.B.S. lid extension gives you extra volume PLUS. This is achieved with a special stiffening seam in the A.B.S. lid, with the same footprint, making optional use of the available space above the support frame.

All you need is some additional room height.

CHOOSE YOUR EASY-TO-ASSEMBLE STEEL FRAME

Primed or galvanized frame variants

- > A specialist company applies the high-quality coating with corrosion protection to our steel parts.
- > Our frames are also available in a partially galvanized version. This high-quality surface coating enables installation even in difficult climatic conditions.

Production in accordance with valid DIN standards

> We comply with all applicable DIN standards for the design and manufacture of the silo frames.

Easy assembly – sturdy design

- > Easy to assemble thanks to an optimised construction system: Our silo bag is attached at a safe working height on the floor because the supporting frame can be fully bolted in place. The frame can then easily be lifted up for installing the feet.
- > With our frame system with tie bars in combination with eye bolts, the A.B.S. frames are aligned accurately and tensioned. This frame design impresses with its sturdy design and stable position.

Video on the Internet >>>



ANIMAL FEED SILOS

KEEPING CHICKENS, COWS, AND PIGS HAPPY.

Animal products are only ever as good as the feed used for the livestock. But even the best feed can deteriorate during storage due to contamination, pests or fungus, resulting in a loss of taste, loss of nutrients and an increased risk of disease for the animals. A.B.S. animal feed silos made of highstrength breathable high-tech fabric ensure safe and hygienic storage, for constant feed quality without mould or caking.





ANIMAL FEED SILO MADE OF UV FABRIC



Computer-aided manufacturing of silos using 100 % polyester fabric.

On request, all Flex-Silos are also available with a stronger fabric, with a steeper cone and with an adapted discharge opening diameter. A structural analysis is carried out for all steel structures and our fabrics are tested for tear resistance by expert institutes. Custom sizes such as rectangular silos or accessories such as rodent covers are also available. Just send us the required dimensions and we can provide you with an individual quotation.



ANIMAL FEED SILOS

Silo-Type	Capacity Calculated content		Steel fra	Lid extension		
			Length x	Height	Height	
Item No.	m³	t ①	width (m)	of frame (m)	of silo (m)	up to m ³
F 10/15	1,2	0,7	1,10 x 1,10	2,25	1,5	0,30
F 10/20	1,7	1,0	1,10 x 1,10	2,75	2,0	0,30
F 10/25	2,3	1,4	1,10 x 1,10	3,25	2,5	0,30
F 12/16	1,6	0,9	1,30 x 1,30	2,35	1,6	0,42
F 12/20	2,2	1,3	1,30 x 1,30	2,75	2,0	0,42
F 12/24	2,8	1,7	1,30 x 1,30	3,15	2,4	0,42
F 12/28	3,5	2,1	1,30 x 1,30	3,55	2,8	0,42
F 12/32	4,1	2,4	1,30 x 1,30	3,95	3,2	0,42
F 12/36	4,7	2,8	1,30 x 1,30	4,35	3,6	0,42
F 12/40	5,3	3,1	1,30 x 1,30	4,75	4,0	0,42
F 15/22	3,5	2,1	1,60 x 1,60	2,95	2,2	0,66
F 15/26	4,4	2,6	1,60 x 1,60	3,35	2,6	0,66
F 15/30	5,3	3,2	1,60 x 1,60	3,75	3,0	0,66
F 15/35	6,5	3,9	1,60 x 1,60	4,25	3,5	0,66
F 15/40	7,6	4,6	1,60 x 1,60	4,75	4,0	0,66
F 15/45	8,8	5,3	1,60 x 1,60	5,25	4,5	0,66
F 18/22	4,6	2,7	1,90 x 1,90	2,95	2,2	0,98
F 18/25	5,7	3,4	1,90 x 1,90	3,25	2,5	0,98
F 18/30	7,2	4,3	1,90 x 1,90	3,75	3,0	0,98
F 18/35	8,9	5,3	1,90 x 1,90	4,25	3,5	0,98
F 18/40	10,6	6,3	1,90 x 1,90	4,75	4,0	0,98
F 18/45	12,2	7,3	1,90 x 1,90	5,25	4,5	0,98
F 21/24	6,3	3,8	2,20 x 2,20	3,15	2,4	1,32
F 21/26	7,2	4,3	2,20 x 2,20	3,35	2,6	1,32
F 21/28	8,2	4,9	2,20 x 2,20	3,55	2,8	1,32
F 21/33	10,7	6,4	2,20 x 2,20	4,05	3,3	1,32
F 21/36	11,7	7,0	2,20 x 2,20	4,35	3,6	1,32
F 21/40	13,3	8,0	2,20 x 2,20	4,75	4,0	1,32
F 21/45	15,5	9,3	2,20 x 2,20	5,25	4,5	1,32
F 24/30	10,9	6,6	2,50 x 2,50	3,75	3,0	1,72
F 24/32	12,1	7,3	2,50 x 2,50	3,95	3,2	1,72
F 24/35	13,6	8,1	2,50 x 2,50	4,25	3,5	1,72
F 24/40	16,6	10,0	2,50 x 2,50	4,75	4,0	1,72
F 24/47	20,7	12,4	2,50 x 2,50	5,45	4,7	1,72
F 30/35	18,7	11,2	3,10 x 3,10	4,25	3,5	2,70
F 30/40	23,2	13,9	3,10 x 3,10	4,75	4,0	2,70
F 30/45	25,4	15,2	3,10 x 3,10	5,30	4,5	2,70
F 32/51	33,5	20,0	3,30 x 3,30	6,10	5,1	3,08
F 32/60	42,0	25,0	3,35 x 3,35	7,00	6,0	3,08
F 35/60	50,0	30,0	3,65 x 3,65	7,00	6,0	3,08

All steel parts are delivered unpackaged, primed or galvanized, in individual parts.

- ① Indicates the capacity with a **bulk** weight of 0.6 t/m³ and the maximum permissible storage weight.
- ② The first two numbers indicate the external dimensions of the frame. Total frame height up to the upper edge of silo attachment in metres, **ground clearance 0.65 m.** Surcharge for ground clearance up to 1 m including filling pipe extension for all sizes.
- 3 Silo height from upper edge of attachment to lower edge of discharge opening after the first complete fills. For the filling pipe, a height of approx. 0.4 – 1.0 m is required above the silo. If this height is not available, the silo capacity cannot be utilised fully. For these cases, we supply







Silo + frame primed



2 Silos + dual frame

ACCESSOIRES



Lid extension



Filling pipe 3"



Filling pipe 4"

POSSIBLE ADDITIONS







Frame, partly galvanized



Dual frame partly galvanized





silos with side filling or with a dispenser (see accessories).

4 Silo cover with additional capacity, with the same frame height







GRAIN SILOS

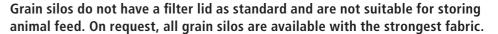
PLENTY OF SPACE FOR QUALITY. NO ROOM FOR MOULD.

Natural products such as grain are sensitive and have to be stored accordingly. However, solid silos are subject to the formation of condensation and mould. Installed indoors away from the influence of the weather, the flexible A.B.S. grain silos made of high-strength, uncoated and breathable high-tech fabric guarantee constant grain quality that meets all current hygiene requirements.

Our experts customise all A.B.S. silos to the specific requirements in terms of the filter lid, discharge opening diameter, cone incline, ventilation cone, manual outlet, additional filter, etc.







If you want to store grain that still has a high moisture content, this is possible without a ventilating cone for grain with up to 15 % moisture. An optional ventilating cone allows you to dry the grain. The required ventilation period with a grain blower installed at 17 % moisture is approx. 2 x 1.0 hour, and about 30 min per day at 16 % moisture. The ventilation period until the grain can be stored without ventilation is around 2 weeks.





GRAIN SILOS

Silo-Type	Capacity Calculated content		Steel frame dimensions (metres)		
			Length	Height	Height
	m³	t	x width (m)	of frame (m)	of silo (m)
Item No.	1	1)	2	2	3
G 10/15	1,2	1,0	1,10 x 1,10	2,40	1,5
G 10/20	1,7	1,4	1,10 x 1,10	2,90	2,0
G 10/25	2,2	1,8	1,10 x 1,10	3,40	2,5
G 12/20	2,4	1,9	1,30 x 1,30	2,90	2,0
G 12/25	3,1	2,5	1,30 x 1,30	3,40	2,5
G 12/30	3,9	3,1	1,30 x 1,30	3,90	3,0
G 15/22	4,1	3,3	1,60 x 1,60	3,10	2,2
G 15/25	4,7	3,8	1,60 x 1,60	3,40	2,5
G 15/30	5,9	4,7	1,60 x 1,60	3,90	3,0
G 15/35	7,0	5,6	1,60 x 1,60	4,40	3,5
G 15/40	8,1	6,5	1,60 x 1,60	4,90	4,0
G 15/45	9,3	7,4	1,60 x 1,60	5,40	4,5
G 18/25	6,6	5,3	1,90 x 1,90	3,40	2,5
G 18/30	8,3	6,6	1,90 x 1,90	3,90	3,0
G 18/35	9,9	7,9	1,90 x 1,90	4,40	3,5
G 18/40	11,5	9,2	1,90 x 1,90	4,90	4,0
G 21/25	8,6	6,9	2,20 x 2,20	3,50	2,5
G 21/30	10,9	8,7	2,20 x 2,20	4,00	3,0
G 21/35	13,0	10,4	2,20 x 2,20	4,50	3,5
G 21/40	14,4	11,5	2,20 x 2,20	5,00	4,0
G 24/30	13,8	11,0	2,50 x 2,50	4,00	3,0
G 24/35	16,8	13,4	2,50 x 2,50	4,50	3,5
G 24/40	18,2	14,6	2,50 x 2,50	5,00	4,0
G 30/30	20,3	16,2	3,10 x 3,10	4,00	3,0
G 30/35	22,2	17,8	3,10 x 3,10	4,50	3,5
G 32/45	33,5	25,0	3,32 x 3,32	5,50	4,5
G 32/52	38,0	30,0	3,36 x 3,36	6,20	5,2
Technical changes a	Technical changes and printing errors do not constitute grounds for any claims to damages.				

All steel parts are delivered un-packaged, primed or galvanized, in individual parts.

- Indicates the capacity for a **bulk** weight of 0,8 t/m³ and the maximum permissible storage weight.
- ② The first two numbers indicate the external dimensions of the frame. Total frame height up to upper edge of silo attachment in metres, **ground cle-arance 0.8 m.** Surcharge for **ground** clearance up to 1 m including filling pipe extension for all sizes.
- ③ Silo height from upper edge of attachment to lower edge of discharge opening after the first complete fills.

SILO SELECTION





Silo + frame primed



2 Silos + dual frame

ACCESSOIRES



Ventilation cone



Silo + supporting frame

POSSIBLE ADDITIONS



Food-safe fabric



UV fabric



Frame, partly galvanized



Dual frame partly galvanized

MINERAL NUTRIENTS SILOS

CONSTANTLY DRY. CONSTANTLY SAFE.

MADE OF POLYESTER FABRIC COATED ON ONE SIDE

Silo-Type	Capacity Calculated amount		Steel frame dimensions (metres)		
Item No.	m^3	t (1)	Length x width (m)	Height of frame (m)	Height of silo (m)
M 10/20	1,7	1,7	1,10 x 1,10	2,75	2,0
M 12/20	2,3	2,3	1,30 x 1,30	2,75	2,0
M 12/28	3,5	3,5	1,30 x 1,30	3,55	2,8
M 15/22	3,5	3,5	1,60 x 1,60	2,95	2,2
M 18/24	5,1	5,1	1,90 x 1,90	3,15	2,4
M 21/24	6,3	6,3	2,20 x 2,20	3,15	2,4
M 21/28	8,2	8,2	2,20 x 2,20	3,55	2,8

Other silo sizes on request. All steel parts are delivered unpackaged, primed or galvanized, in individual parts.

- ① Indicates the capacity for a **bulk weight from 1.0 t/m³** and the maximum permissible storage weight.
- ② External dimensions of the support structure / steel frame. Ground clearance 0.65 m.
- 3 Silo height from upper edge of attachment to lower edge of discharge opening after the first complete fills. For the filling pipe, a height of approx. **0.4 – 0.6 m** is required above the silo. If this height is not available, the silo capacity cannot be utilised fully. For these cases, we supply silos with side filling or with a dispenser (see accessories).

Silo sizes M 10/.. to M 15/.. must be equipped with an additional filter.



SILO SELECTION

supporting

ACCESSOIRES







Filling pipe galvanized

POSSIBLE ADDITIONS







Also available as a dual frame on request. All steel parts are delivered galvanized and unpackaged, in individual parts.

- 1 Indicates the capacity for a **bulk weight** from 0.6 t/m3 and the maximum permissible storage weight.
- 2 Length x width x height to tip of roof. Ground clearance 0.9 m.

OUTDOOR SILOS

THE IDEAL PROTECTION AGAINST WIND AND WEATHER.



Complete outdoor silo made of 100 % polyester with frame, including filling pipe, coupling and filter cover.

The silo with a green rain roof and rain protection jacket. Other colours available on request. Both act as insulation, giving this silo all the advantages of the breathable polyester silo:

- > No formation of condensation
- > No deterioration of the feed
- > No additional maintenance or cleaning
- > Good outflow properties
- > Galvanized steel structure

Silo-Type	Capacity Calculated amount		Steel frame dimensions (metres)		
		OU.	DOOR SILO		
Item No	m³	t ①	Length (m)	Width (m)	Height (m)
A 18/25 G	6,2	3,7	1,9	1,9	4,3
A 18/37 G	10,8	6,5	1,9	1,9	5,5
A 21/31 G	11,0	6,6	2,2	2,2	5,4
A 21/43 G	16,3	9,8	2,2	2,2	6,1
A 24/30 G	13,5	8,1	2,5	2,5	5,2
A 24/45 G	22,3	13,4	2,5	2,5	6,7
Technical changes and printing errors do not constitute grounds for any claims to damages					

TIMBER FRAME SILOS

DIMENSIONS FOR SELF-BUILDS.



DIMENSIONS USING THE WOOD CONSTRUCTION IN CONNECTION WITH A.B.S. SILOS

		ANIMAL FEED SILO	
	Feet	Crossbeam	Stringer
Item No.	1	2	3
F 10/15	-	6/8	8/10
10/20	-	6/8	8/10
F 10/25	-	6/8	10/10
F 12/16	-	6/8	8/10
12/20	8/8	6/10	10/10
12/24	8/8	6/10	10/12
12/28	8/8	6/10	10/12
12/32	10/10	6/10	10/14
12/36	10/10	8/12	10/14
12/40	12/12	8/12	12/14
15/22	8/8	8/12	12/12
15/26	8/8	8/12	12/14
15/30	10/10	8/12	12/14
15/35	10/10	8/12	12/16
15/40	12/12	8/14	14/16
15/45	12/12	8/14	14/18
F 18/22	8/8	8/12	12/14
F 18/25	8/8	8/14	12/16
F 18/30	10/10	8/14	12/16
F 18/35	12/12	10/14	14/18
F 18/40	12/12	10/16	14/20
F 18/45	14/14	10/16	14/20
21/24	10/10	8/14	14/16
F 21/28	10/10	10/14	14/16
F 21/33	12/12	10/16	14/20
F 21/36	12/12	10/16	14/20
F 21/40	12/12	12/16	14/20
F 21/45		Wooden loops offset	
F 24/30	12/12	12/16	16/20
F 24/32	12/12	12/18	16/22
F 24/35	12/12	12/18	16/22
F 24/40	14/14	14/18	18/24
F 24/47	24	1/47 and larger wooden loops off	set
		GRAIN SILO	
G 10/15	8/8	6/10	10/12
G 10/20	8/8	6/10	10/12
G 10/25	10/10	6/10	12/14
G 12/20	8/8	6/10	10/12
G 12/25	10/10	8/12	12/14
G 12/30	10/10	8/12	12/14
G 15/22	8/8	8/12	14/14
G 15/25	10/10	8/14	14/16
G 15/30	10/10	8/14	16/16
G 15/35	12/12	10/16	16/18
G 15/40	12/12	10/16	16/18
G 15/45	12/12	12/16	14/20
G 18/25	10/10	10/14	16/18
G 18/30	12/12	10/16	16/20
G 18/35	12/12	12/16	16/20
G 18/40	14/14	12/18	16/22
G 21/25	12/12	12/16	16/22
G 21/30	14/14	14/18	16/24
G 21/35	21	/35 and larger wooden loops off	cet

① Minimum beam size of the feet for frame in cm. Softwood quality class II.

② Minimum size of crossbeam.

3 Minimum size of main beam.

For placement on walls, girders, etc., Contact us to find out the required size. the two main beams are 30 cm longer on both sides. If the span is longer, stronger beams need to be used!

LIST FOR ACCESSORIES

BOILER TUBE BEND 90°

- ø 88,9 mm, unpainted Radius 500 mm, 3"
- ø 88,9 mm, unpainted Radius 250 mm, 3"
- ø 114,3 mm, unpainted Radius 330 mm, 4"

BOILER TUBE

- ø 88,9 m, unpainted, wall thickness 3.2 mm per metre 6,8 kg
- ø 114,3 mm, unpainted, wall thickness 3.6 mm per metre 9,8 kg

WELDING NIPPLE

for screwing on tank truck coupling

PIPE COUPLING

with sealing set for connecting two filling pipe parts

- ø 88,9 mm
- ø 114,3 mm

TANK TRUCK COUPLING

Tank truck coupling, 3"

Tank truck coupling, 4"

Blind cover for tank truck coupling

HOSE CLAMP

for fastening the filling pipe to the building

PIPE CLAMP

for fastening the silo inlet nozzle to the filling pipe

EXHAUSTING NOZZLE

if the silo is supposed to be filled with your own blower. Such compressors usually have larger pipes and significant quantities of air that should be removed at the exhausting nozzle and with an additional filter system

ADDITIONAL FILTER

made of cotton (nettle) approx 4.5 m² with connection bend and holder as well as connection nozzle on the silo cover. Recommended for silo sizes 12/.. and 15/.. as well as for silos to be filled by your own blower

DEMIXING HOSE

incl. galvanized sheet metal fastening on 3" filling pipe up to 2,5 m silo height up to 4,0 m silo height

DISPENSER

Adjustable dispense r to largely compensate for the reduction in capacity when there is insufficient height for the filling pipe above the silo.



























STUKO® AND FLANGES

for feeding systems where the feed does not flow easily. E.g. feed for laying hens with a silo capacity up to $6.5\ \rm tons$

from 6,5 to

from 9,5 to

WARNING: To prevent a reduction in capacity when using Stuko®, the filling pipe must be placed 0.2 m higher. Otherwise the silo will suffer a loss of capacity of approx. 8% of the indicated potential capacity. It is not possible to discharge every product with Stuko®, especially if a different type of conveying device is used instead of a conveying screw, e.g. for finely ground wet grain.



LOCKING GATE VALVE

with two grips for pellets, grain and shredded feed with tension band

- ø 150 mm, only for grain
- ø 250 mm
- ø 350 mm, only for kibbled feed and flour

Other sizes and a stainless steel version on request.



SCREW BO

to be attached on the silo outlet and for the insertion of a screw with automatic feeding systems

+ tensioning strap (please consider the Stuko®)

Height of the screw box with 0.2 m reserve-allowance at $0^\circ = 0.5$ m, with $15^\circ = 0.6$ m, at $30^\circ = 0.7$ m and at $45^\circ = 0.8$ m. Please note that with 30° and 45° it will be necessary to have more than 0.6 m of ground clearance.



CONNECTING PIECE

made of galvanized sheet steel ø 420 mm, with tensioning strap for a spiral adapting funnel



DISCHARGE HOSE

including connecting ring and two

tensioning straps

ø 250 mm ø 350 mm

1 m hose

2 m hose

3 m hose

The standard gate valve can be connected to the discharge hose.



TRANSITION PIECE

made of 100 % polyester for reducing the silo outlet to a smaller outlet pipe with connecting ring and two tightening straps, e.g. from Ø 350 mm to Ø 250 mm or Ø 250 mm to Ø 200 mm possibly also Ø 150 mm



TENSIONING STRAP

ø 150 mm

ø 250 mm

ווווווווווווו

Other sizes and a stainless steel version on request.



MANUAL OUTLET

at the cone for silos with automatic feeding systems, so that feed can be removed without dismantling the automatic feeder (helpful during maintenance work or when technical problems on your feeding system occur)

Not suitable for attaching conveying screws or locking gate valves without a handle.

up to 9.5 to

from 9.5 to

(Note: locking gate valve not included in the scope of delivery)

ACCESSORIES



RODENT COVER for animal feed silos



DELIVERY NOTE-/DOCUMENT BAG attached to the silo



CROSSPIECE

Facilitates access to the silo outlet, e.g. for manual extraction Up to 1.80 m silo width From 2.10 m silo width

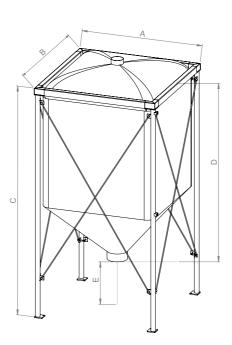


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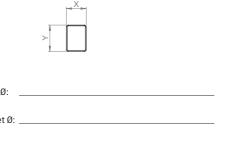
TURNING OLD INTO NEW

SILO CLEANING, REPAIRS, AND REPLACEMENT BY A.B.S.

- > Cleaning: Simply send us the dirty silo bag and we take care of the rest.
- > Repairs: Our experienced sewing experts can get your silo bag back into shape.
- > Replacement: If the frame or the supporting bars are still OK, but the silo bag is beyond repair, we can replace it.
- > Split loops: Is the silo difficult to access or can the frame not be disassembled? For these cases, we manufacture special silo bags with "split loops": The loops are placed around the lifting bars and secured with tubes provided by the customer.
- > Third-party products: We can also supply silo bags for frames or supporting bars from other manufacturers. Simply provide us with the exact dimensions:



Dimensions supporting frame



A (length)	
B (width)	
C (height)	
D (Silo height)	
E (ground clearance)	
X (beam)	
Y (beam)	



REP-SET

Quickly repair small damaged areas on the silo. The set includes two A3 polyester fabric patches and Bostik glue.



DIVIDED LOOPS

For easy replacement of the silo without dismantling the steel frame. Surcharge for silo width from 1,00 m to 1,80 m Surcharge for silo width from 2,10 m to 2,40 m

HOW FLEXIBLE CAN WE BE FOR YOU?

WHICH FLEXILO STORAGE SOLUTION IS RIGHT FOR YOU? LET'S FIND OUT TOGETHER. WE ARE LOOKING FORWARD TO YOUR ENQUIRY.





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