

BUILDING A SOLID FUTURE





CORPORATE STORY

Bosch Beton is an ambitious family firm that produces concrete retaining walls from its state-of-the-art factory in Barneveld and sells them to the civil engineering and agricultural industries. We do this in the Netherlands and in our neighbouring countries. Whatever the situation requires, we have a customised retaining wall solution. We deliver a high-quality and sustainable product for now and for the next generations. Sustainability and innovation have high priority so that we can minimise our own footprint and that of our customers. We are working towards 100% circular production of our retaining walls in the future. 'Building a solid future' is our promise to our customers. Supporting customers, personal contact, full service, fast delivery and quality make Bosch Beton a solid partner. Sustainability, a pioneering approach, decisiveness, sincerity and loyalty are our core values.

RETAINING WALL SOLUTIONS

Our retaining walls can be used for so many different applications in the agricultural sector; as silage clamp for grass or maize, as concrete manure storage, as silo for storing raw materials for biogas or retaining walls for a dairy farmer's barn. Whatever the issue and however complex we work with you to find the best customised solution for your situation.

Sustainability

Our products offer customers the most sustainable solution for all their requirements.

A pioneering approach

We aim for innovation and work continuously on product development.

Decisiveness

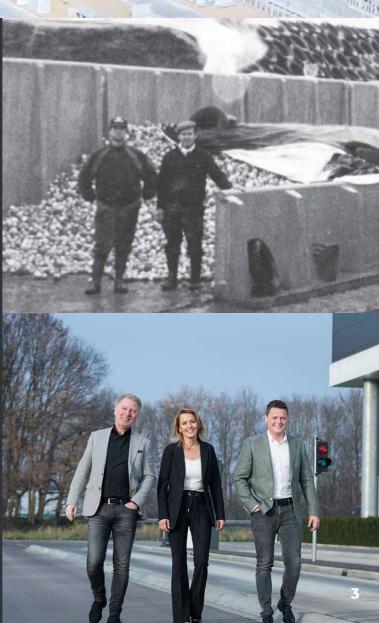
We don't only think about innovation, improvement, connection and sustainability; we achieve these too.

Sincerity

We always give honest and expert advice with the right price/quality ratio.

Loyalty

We are committed to our customers and always honour our agreements and obligations.





SUSTAINABLE PRODUCTION



Sustainable raw materials



Long service life



100%

recyclable

Solar power



Guarantee



Rainwater

BUILDING A SOLID FUTURE

'Building a solid future' is our promise to our customers and we aim to realise this in the broadest sense. What we build today must contribute to tomorrow's world. If customers choose Bosch Beton retaining walls, they must have assurance that they're making a sustainable choice. That's why we keep on innovating, developing and improving our sustainability to continue to make and deliver a high-quality and sustainable product. Our prefab retaining walls are certified in line with the strictest requirements, including KIWA/ KOMO and Güteschutz. Bosch Beton is one of the first retaining wall producers worldwide to obtain a CSC Gold certificate (Concrete Sustainability Council), which means that we produce sustainable and responsible concrete products. Our state-of-the-art factory exudes sustainability throughout. We use sustainable materials, installations and recycled products for our production, reuse rainwater in the production process and have over 18,000 solar panels to generate our energy.











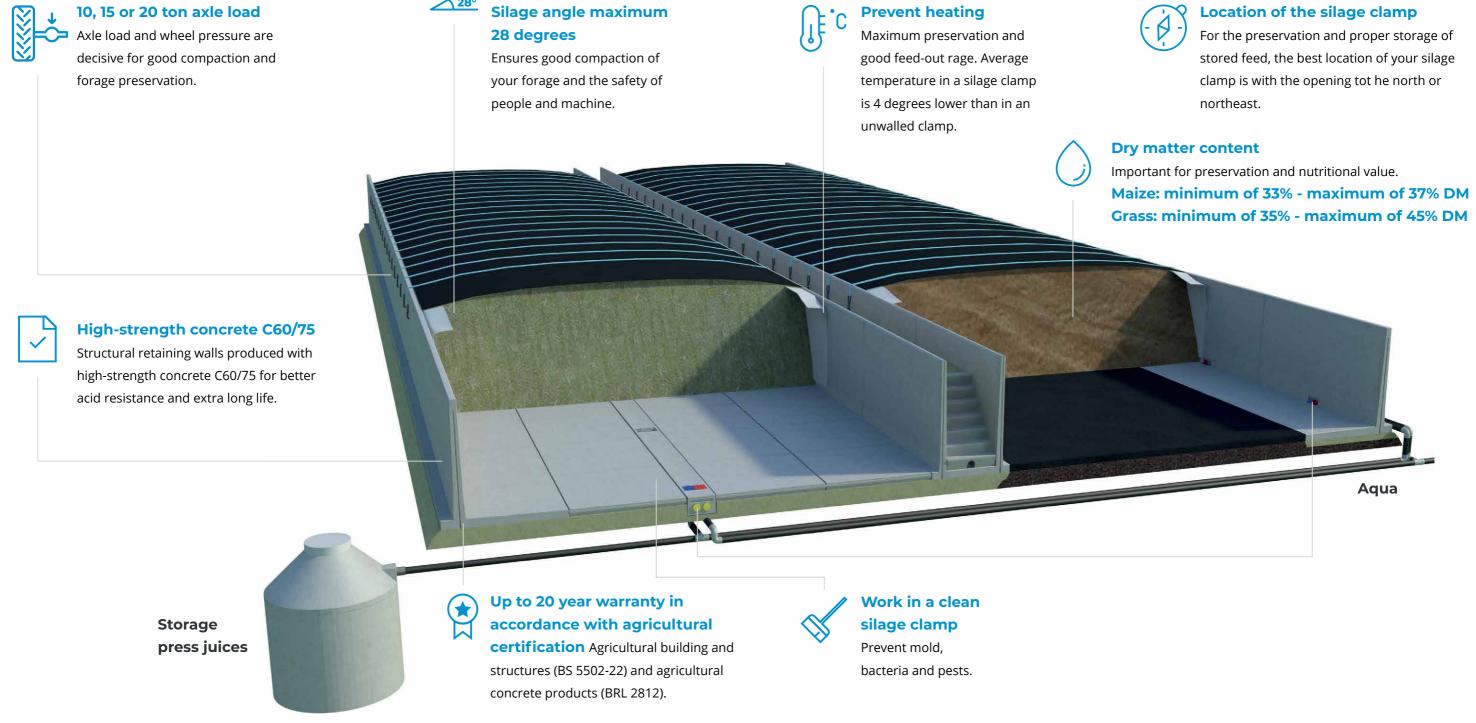
FORAGE PRESERVATION

Get the most from your silage clamp



3 big profits from a high-quality silage clamp

- 1. Immediately reduces your forage losses and save 5-10% on high feed costs per average dairy farm
- 2. Better feed preservation through optimal compaction right up to the edge
- **3.** Good forage ensures a higher and better milk production.







BIOGAS

Biogas is a sustainable energy source that offers opportunities to reduce carbon emissions. One option for producing biogas is the fermentation of maize. In order to be able to use maize in the biogas digester, minimum stocks of 18 months are required. A farmer begins stockpiling maize well before starting up a biogas digester. Clean, orderly and cost-effective raw material storage is very important for a biogas plant. We help our customers in devising the right silo solution. With Bosch Beton walls, you are assured of maximum yield on your raw materials.







"You need to make sure that tidy silage clamps there's less wastage or no wastage at all."

Richard Bower, Staffordshire







STORAGE AGRA

As well as grass or maize storage, silage clamps are also well suited to indoor storage, including grain, sugar beet, flower bulb waste, residual products such as pressed pulp or the storage and transfer of wet by-products. We have developed retaining walls for storage specifically for agricultural applications, such as indoor storage systems. The walls are unique as they can absorb the heavy pressure and impact forces caused by shovels and tractors.

For small or large storage areas, you determine the storage capacity yourself. Storage from retaining walls can be constructed quickly.







"We chose one manure storage and storage for bulb waste. The Bosch Beton dual gutters prevent us being faced with too much effluent."

Nick van der Wereld, Worldflower



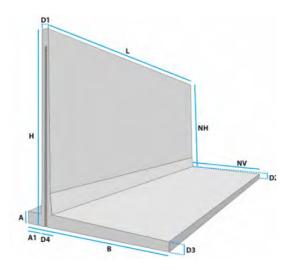
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EXTERNAL WALLS

Bosch Beton retaining walls are available in various types, sizes, colours and structures and have a long service life. Our extensive product range means expansion or adaptation is always possible with our retaining walls. And as our walls also meet the strictest quality and certification requirements, you are assured of a sustainable product.

EXTERNAL WALL

SELF-SUPPORTING WALL



Suitable for heavy axle loads No soil embankment needed due to the extra long foot Particularly suitable for higher silage clamps

 Type
 H
 L
 B
 NV
 NH
 D1
 D2
 D3
 D4
 A
 A1
 kg

 LA100V
 1150
 3995
 1430
 1050
 1000
 125
 150
 140
 148
 200
 3275

 LA125V
 1400
 3995
 1580
 1200
 1250
 125
 150
 140
 180
 148
 200
 3810

 LA150V
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 3995
 1680
 1300
 1500
 125
 150
 140
 180
 148
 200
 4280

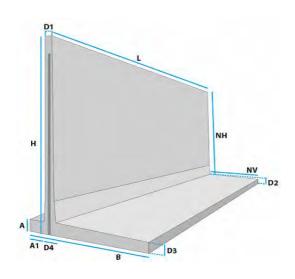
 LA250V
 1910
 3995
 1950
 1550
 1750
 125
 160
 140
 200
 157
 200
 5270

 LA250V
 2160
 3995
 2310
 1850
 2500
 125
 160
 140
 200
 157
 200
 6010

 LA250V
 2710
 3995
 2310
 1850
 2500
 125
 210
 170
 260
 206
 200
 84

EXTERNAL WALL

SELF-SUPPORTING WALL





 Type
 H
 L
 B
 NV
 NH
 D1
 D2
 D3
 D4
 A
 A1
 kg

 LA150G
 1650
 3995
 1180
 800
 1500
 125
 150
 144
 180
 148
 200
 3595

 LA175G
 1910
 3995
 1400
 1000
 1750
 125
 160
 147
 200
 157
 200
 4505

 LA200G
 2160
 3995
 1470
 1050
 2000
 125
 160
 147
 220
 157
 200
 5200

 LA250G
 2710
 3995
 1710
 1250
 2500
 125
 210
 183
 260
 206
 200
 7465

 LA300G
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 2495
 2100
 1500
 3000
 125
 245
 199
 300
 236
 300
 6330

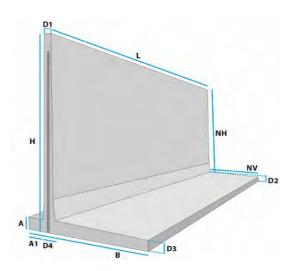
 LA400G
 4350
 2495
 2800
 2100
 4000
 125
 350
 222
 360
 330
 340





EXTERNAL WALL

SELF-SUPPORTING WALL





	Туре	Н	L	В	NV	NH	D1	D2	D3	D4	Α	A1	kg
	LA200S	2160	3995	1320	900	2000	125	160	149	220	157	200	4975
	LA250S	2710	3995	1560	1100	2500	125	210	186	260	206	200	7145
	LA300S	3245	2495	1950	1350	3000	125	245	203	300	236	300	6085



AXLE LOAD & SAFETY DISTANCE

The minimum axle pressure for good compaction of roughage in a silage clamp is 7.5 tonnes per axle. The vehicle weight is, therefore, at least 15 tonnes. A safety distance is prohibited for retaining walls with an agricultural application. Good manoeuvring and compaction is important, especially in the corners of the silage clamp, which is why retaining walls must be designed structurally for this.

Please note: on purchase you have a 'structural' concrete product, so it's important that you are absolutely certain that the product is safe and suitable for the right application.

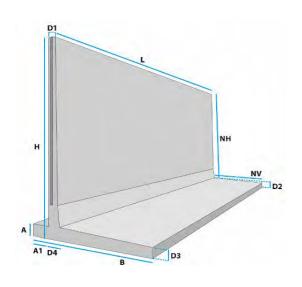
Bosch Beton has worked to prohibit safety distances in silage clamps so that people and machines can drive roughage into the silage clamp safely. That's why we offer up to a 20-year breakage warranty.



EXTERNAL WALLS

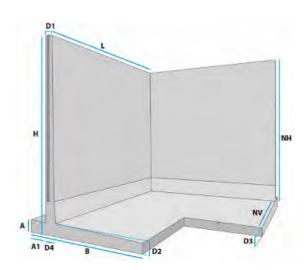
EXTERNAL WALL

SELF-SUPPORTING WALL



EXTERNAL WALL CORNER

SELF-SUPPORTING WALL





✓ Suitable for smaller and le load lower silage clamps

In combination with a soil embankment suitable for a 15-tonne axle load

 Also ideal for manure storage and bulk storage



✓ Suitable for smaller and load lower silage clamps

In combination with a soil embankment suitable for a 15-tonne axle load

Also ideal for manure storage and bulk storage

Туре	н	L	В	NV	NH	D1	D2	D3	D4	Α	ΑΊ	kg
L050hak	500	3995	600	285	410	85	90	83	115	90	200	890
L075hak	750	3995	800	488	659	85	91	83	112	90	200	1220
L100hak	1000	3995	800	489	909	85	91	83	111	90	200	1425
L125hak	1250	3995	900	577	1148	85	102	92	123	100	200	1860
L150hak	1500	3995	1050	716	1387	85	113	94	134	110	200	2395
L175hak	1750	3995	1200	850	1620	90	130	98	150	125	200	3060
L200hak	2000	3995	1350	985	1855	100	146	101	165	140	200	3835
L225hak	2250	3995	1500	1113	2085	100	165	120	187	165	200	4820
L250hak	2500	3995	1600	1200	2322	100	178	136	200	170	200	5655
L300hak	3000	3995	1900	1467	2775	100	225	144	233	200	200	7850
L350hak	3500	2495	2050	1590	3245	100	255	149	260	220	200	5930
L400hak	4000	2495	2450	1810	3731	100	269	150	290	229	350	7375

Walls up to 300 cm are also available without heel Walls up to 300 cm are also available in lengths of 1990

Type (Corner)	н	L	В	NV	NH	D1	D2	D3	D4	Α	Αl	kg
L050100hak	500	995	600	285	410	85	90	83	115	90	200	400
L050hak	500	1995	600	285	410	85	90	83	115	90	200	840
L075100hak	750	995	800	488	659	85	91	83	112	90	200	540
L075hak	750	1995	800	488	659	85	91	83	112	90	200	1140
L100100hak	1000	995	800	489	909	85	91	83	111	90	200	640
L100hak	1000	1995	800	489	909	85	91	83	111	90	200	1350
L125100hak	1250	995	900	577	1148	85	102	92	123	100	200	810
L125hak	1250	1995	900	577	1148	85	102	92	123	100	200	1725
L150100hak	1500	995	1050	716	1387	85	113	94	134	110	200	990
L150hak	1500	1995	1050	716	1387	85	113	94	134	110	200	2180
L175hak	1750	1995	1200	850	1620	90	130	98	150	125	200	2765
L200hak	2000	1995	1350	985	1855	100	146	101	165	140	200	3435
L250hak					2322						200	4795

^{*}All external wall corners are also available without heel.



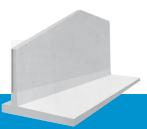
OPTIONS



The stairs in the U retaining wall enable you to walk easily at height through your silage clamp. The stairs are available separately.



We can provide almost any type of corner. We mitre the walls or use fixed corner elements.



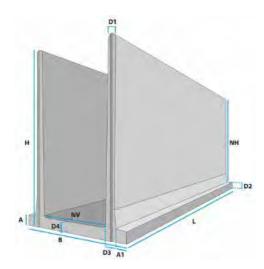
We can chamfer silage clamp walls on request. The cutting line runs from half the height to half the length as standard. We can also customise this for you!

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PARTITIONING WALLS

The U and T retaining walls also serve as partitioning wall to create multiple silage or storage chambers.

These walls are unique as both sides can absorb the heavy pressure and impact forces of ensiling and removing silage using heavy shovels and tractors.

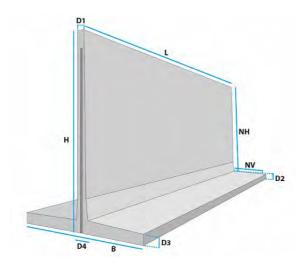


PARTITIONING WALL

U WALL



- Independent wall with load bearing on both sides
- The space in the U wall also serves as a walkway
- ✓ The space in the U wall also drains rainwater



PARTITIONING WALL T WALL



- ✓ Independent wall with load bearing on both sides
- Space saving
- Can also be used as an external wall

Type 15T	Н	L	В	NV	NH	D1	D2	D3	D4	Α	Αl	kg
U100	1165	3995	1250	1006	1165	100	-	122	140	-	-	3780
U125	1415	3995	1250	994	1415	100	-	128	140	-	-	4360
U150hak	1680	3995	1450	982	1532	100	140	154	140	140	80	5435
U175hak	1930	3995	1450	972	1782	100	140	159	140	140	80	6085
U200hak	2190	3995	1550	970	2050	100	140	160	140	140	130	6795
U250hak	2690	3995	1900	1188	2540	100	150	176	150	150	180	8890
U300hak	3190	3995	2150	1418	3020	100	170	186	170	160	180	11420

Type 10T H L B NV NH D1 D2 D3 D4 A A1 kg

U300hak 3190 3995 2150 1418 3020 100 170 186 170 160 180 11420

 TWA125
 1400
 3995
 1480
 650
 1250
 125
 150
 145
 180
 3685

 TWA150
 1650
 3995
 1680
 750
 1500
 125
 150
 144
 180
 4325

 TWA175
 1910
 3995
 1900
 850
 1750
 125
 160
 149
 200
 5260

 TWA200
 2160
 3995
 2020
 900
 2000
 125
 160
 149
 200
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 2020
 900
 2000
 125
 160
 140
 220
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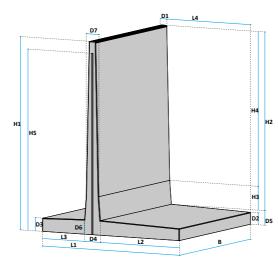
 TWA300
 3245
 2495
 2600
 1150
 3000
 125
 245
 180
 300
 6850

 TWA400
 4350
 2495
 3100
 1370
 4000
 125
 350
 190
 360
 10775

 TWA200
 2160
 3995
 1820
 900
 2000
 125
 160
 150
 220
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NEW INNOVATION

We are increasingly seeing a combination of silage clamp walls with automatic cover systems. Demand for retaining walls with heel is also increasing. When covering and when removing silage, the cover system moves across the stable heel along the silage clamp walls. The cover system ensures better feed preservation and retention.



EXTERNAL WALL

SELF-SUPPORTING WALL



- axle load 15 tonne
- Suitable for heavy axle loads
- Particularly suitable for higher silage clamps
- With extra long heel for the cover system

Type 15T	н	H2	Н3	Н4	Н5	В	LI	L2	L3	L4
LA300H	3245	3000	400	2600	3045	2495	2600	1500	800	1587,5
				DI	D2	D3	D4	D5	D6	D7
				125	199	230	300	245	245	238



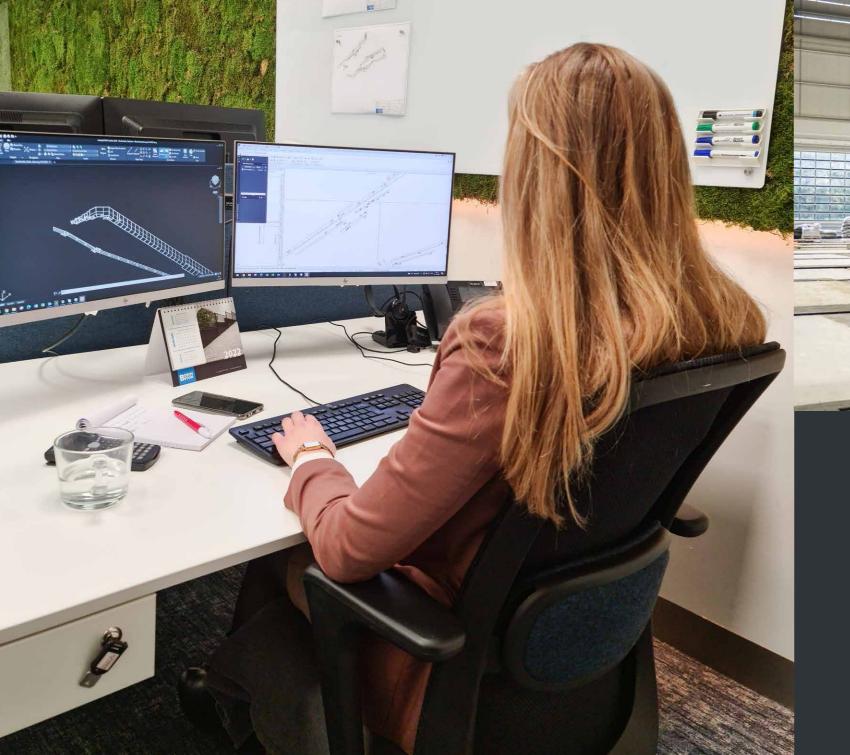




"We decided to place a cover system on the new silage clamps. We wanted a lasagne pit and that's easy to cover with a cover system."

Klaske Faassen, Noordzigt dairy farm, Sint Jacobiparochie





PRODUCTION

Bosch Beton stands for quality and we invest in that. We use high-quality moulds so we can guarantee dimensions. Handling materials in a smart way so we can develop alternative solutions ensures that we make an important contribution to structurally-improved products with a longer service life and a lower carbon footprint. We conduct daily tests and measurements on concrete quality in our own laboratory, including extensive retaining wall strength tests in our own pressure chamber. The test simulates the lateral and downward pressure in practice, so we can examine the wall's behaviour and see where potential cracks can occur.

ENGINEERING

Our in-house Engineering team calculates and checks that the retaining wall solution we offer meets our customers' structural requirements. They detail large requests into clear quotations, make structural calculations and working drawings and devise solutions to ensure that projects are feasible in practice. The team uses advanced design and software programs including Scia, Allplan and Tekla. Handling materials in a smart way so we can develop alternative solutions, ensures that we make an important contribution to structurally-improved products with a longer service life and a lower carbon footprint.



PROJECT PREPARATION & PLACEMENT

We discuss the preparation with our customer to ensure smooth and satisfactory wall placement on site. For example, the unloading point must be accessible and easy for transport to drive on. Sound preparation of the substrate is also important for correct wall placement and it's vital that a qualified employee is present. The walls can be placed in different ways. We usually place the walls ourselves

from the truck. Other options are placement using a clamp or that the customer does this themselves.







SERVICE TEAM

Quality and service come first for us. We think it's important that our customers are satisfied and stay that way. From quotation request to delivery. And we stay in touch with our customers after that too. The team also takes care of the correct silage clamp finishing, such as making it impermeable to liquids and oxygen or applying a coating. If necessary, our service team can be accessible outside standard working hours. Our employees are knowledgeable. Feel free to contact us with questions about the strength of the walls, structures, services or other questions.



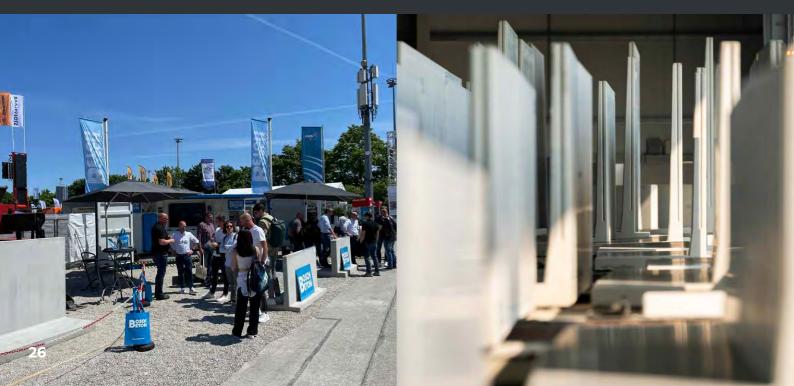
Would you like to give us a rating?





SILAGE CLAMP GENERATOR

Use our online 3D generator to build your own silage clamp in three steps. Decide what you are going to use the silo for, select a silage clamp wall type, and enter the dimensions of your silage clamp along with the axle load. Make a selection for the flooring of the farmyard, and any accessories and services required. You will receive a customised recommendation free of obligation within three working days of receipt of your application. If you would rather have immediate advice, please feel free to contact our team.





CONTACT

SALES AGRICULTURAL

agri@boschbeton.com

ADMINISTRATION

administration@boschbeton.com

LOGISTIC

logistic@boschbeton.com

SERVICE

service@boschbeton.com









BOSCH BETON NEDERLAND

Grote Bosweg 1

3771 LJ Barneveld

**** +31(0)342-441050

F +31(0)342-441060

BOSCH BETON GMBH & CO. KG

Siemensstraße 31

47533 Kleve

\(+49(0)2821-9783740

F +49(0)2821-9783739

☑ info@boschbeton.de

BOSCH BETON BELGIË BV

Genkersteegweg 429, Bus 2.05 3500 Hasselt

+32(0)11988390

✓ info@boschbeton.be

BOSCH BETON FRANCE SAS

10, rue Michel Servet 59000 Lille

**** +33(0)3 66 21 25 29

▼ info@boschbeton.fr

BOSCH BETON DANMARK APS

Brundtlandparken 5 6520 Toftlund

+45(0)69912612

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