Environmental Product Declaration

In accordance with ISO 14025 and EN 15804 for:

Reinforced concrete products for traffic, railroad and retaining walls

from

S:t Eriks AB

Programme:	The International EPD® System, www.environdec.com
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EPD Profile

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Product category rules (PCR): The International EPD System PCR for Construction Products and Construction Services 2012:01, version 2.32 and PCR 2012:01-SUB-PCR-G
Independent third-party verification of the declaration and data, according to ISO 14025:2006: ☐ EPD process certification ☒ EPD verification

The EPD owner has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804.

Company information

Description of the organisation

S:t Eriks develops, manufactures, sells and delivers concrete ground-, roof- and infra systems to professional customers and retailers on the Nordic market. They are certified according to ISO 9001:2015, ISO 14001:2015, BASTA, BBC, Vilma and transQ.

Read more at: steriks.se/om-st-eriks/miljo-och-kvalitet/

Name and location of production sites

The Reinforced concrete products for traffic, railroad and retaining walls covered in this EPD are produced at four different sites in Sweden, located in Staffanstorp (Industrivägen 4, 245 34 Staffanstorp), Uppsala (Börjegatan 77, 752 28 Uppsala), Kil (Bryggaregatan 6, 665 32 Kil) and Ockelbo (Grindbäck 1, 816 93 Ockelbo).

EPD Product information

Product name: Reinforced concrete products for Traffic, Railroad and Retaining walls.

UN CPC code: 37550

Product identification:

This EPD covers Reinforced concrete products for Traffic, Railroad and Retaining walls, all identified with product name and code in Appendix A.

Product description:

The reinforced concrete products are made of cement, gravel and reinforcement steel. A small amount of chemicals is also included in the products. The four production sites in Staffanstorp, Uppsala, Kil and Ockelbo use slightly different raw material compositions, in some cases from different suppliers, and also use different manufacturing fuels. The finished products are prefabricated reinforced concrete systems used as physical barriers to increase safety in traffic, railroad and other public spaces. This EPD is valid for all products listed in Appendix A. Specifications for each product can be found at *steriks.se/produktsortiment/*

Average compilation:

Since the assessed product category is produced on four different sites, an average was compiled. This was done based on production volumes of the product category at the four sites, where the production volumes of the assessed product category were compared resulting in each site contributing with a corresponding ratio to the average.

Figure 1. Illustrations of three product examples included in the product group assessed, all valid for the declared unit.

LCA information

Declared unit: 1 metric ton of the average Reinforced concrete product for traffic, railroad and retaining walls

Reference service life: Not specified

Time representativeness: The data and information collected and modelled for refers to the production year of 2017. The general datasets from used databases are all representative and valid for the year of 2017.

Geographical scope: Sweden
The geographical coverage of this LCA is scenario adapted, i.e. set to Sweden for the manufacturing and to region specifics, when possible, for the raw material extraction and production. This means that the data used for raw material extraction and production is adapted to the geographical region it is extracted from and produced in. The geographical coverage for transports is set to Europe.

Database(s) and LCA software used: The LCA software SimaPro 9.1.0 was used in the assessment, with data from specific raw material EPDs and the databases Ecoinvent 3.5 and U.S. LCI.

Description of system boundaries: Cradle-to-gate, i.e. life cycle stages A1-A3

Excluded lifecycle stages: Since this is a cradle-to-gate EPD, life cycle stages A4, B1-B7, C1-C4 and D are neither considered nor declared.

More information:
The differences between the environmental impact indicators deviate from the average results (i.e. results for the DU) with more than ±10%. Ranges are presented in Table 4.
For more information about the EPD owner, visit www.steriks.se.
For more information about the EPD producer, visit www.dge.se.

For more information about the underlying LCA study, contact the LCA practitioner Helena Lindh (helena.lindh@dge.se).

Concrete in use goes through a carbonation process. Carbonation of concrete is a chemical reaction, a natural process by which CO_2 in the ambient air penetrates the concrete and reacts with hydration products in the concrete. Not only the $Ca(OH)_2$ component of the hardened cement paste is able to carbonate, but also other calcium rich hydrated oxides in the concrete have been shown to gradually transform into carbonate by first decompose to $Ca(OH)_2$ when pH is getting lower due to carbonation. For concrete carbonation this means that part of the carbon dioxide emitted during cement production is rebound to the concrete during use and end of life stages of a structure. The carbonation process for the products assessed is not considered, since the life cycle stages for usage and end of life is not included.

System diagram

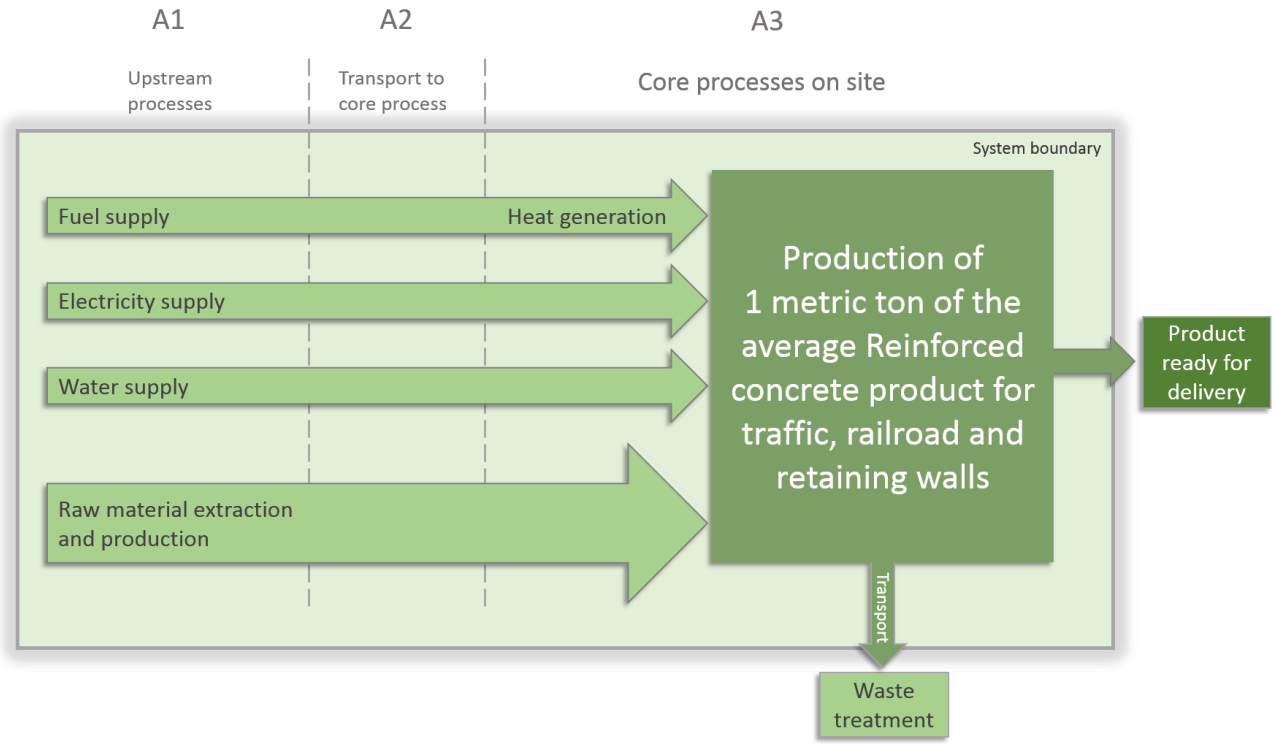

Figure 2. Flow diagram of the assessed life cycle stages for the DU assessed, beginning with raw material extraction and production, followed by transport from supplier to site and finally manufacturing at the core sites.

Table 1. Table declaring the life cycle stages included in the LCA.
X= included in the LCA, MND= Module Not Declared

Product stage			**Construction process stage**		**Use stage**							**End of life stage**				**Resource recovery stage**
Raw materials	Transport	Manufacturing	Transport	Construction-Installation	Usage stage	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction	Transport	Waste processing	Disposal	Reuse-recovery-recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND

Description of life cycle stages A1-A3: Raw material extraction and production, transport from suppliers and manufacturing on site

Table 2. The life cycle stages included in this EPD and a description of each stage.

Stage	Description
A1 Raw materials	Extraction and processing of all raw materials occurring upstream from the manufacturing process, including the waste generated for these processes. The energy generation needed for these processes (extraction, refining and transport of energy from primary energy sources) as well as the energy needed for the manufacturing process (A3).
A2 Transport	The external transportation of raw materials to each of the four manufacturing sites. The modelling includes transportation on road and/or water, with processes for each raw material.
A3 Manufacturing	The manufacturing of the reinforced concrete products takes place at S:t Eriks' four sites in Staffanstorp, Uppsala, Kil and Ockelbo. All raw materials are weighted in by a computer driven process. Gravels and cement are mixed, followed by dosing of water and addition of plasticizer. The concrete mixture is then conveyed to be casted. Reinforcement steel is installed in the cast oil-coated cast, before the concrete mixture is poured into it. The surface is processed, and the product is hardened for 24 hours. After the completed production cycle, the cast is removed, and the product is delivered to storage and further hardened. Electricity, fuel and water consumption and waste generation is included in this stage.

Content declaration per declared unit

1 metric ton of the average Reinforced concrete product for traffic, railroad and retaining walls

Table 3. Content declaration for the declared unit. None of the substances are regarded as SVHCs (Substances of Very High Concern) as defined in the REACH legislation.

Raw materials	Mass ratio
Cement	<18%
Gravel, crushed	<65%
Gravel, natural round	<15%
Reinforcement steel	<2%
Plasticizer	<0,5%
Cast oil	<0,01%
Water	<10%

**The water weight included in the products are the calculated amounts left after hardening, to sum up to the total weight*.

Environmental performance

1 metric ton of the average Reinforced concrete product for traffic, railroad and retaining walls

Environmental impacts

Table 4. The results from the LCA showing the environmental impacts from 1 DU during the life cycle stages assessed.

IMPACT CATEGORY	UNIT	A1	A2	A3	TOTAL A1-A3	*Deviation range from average*
Acidification potential (AP)	kg SO_2 eq.	0,41	0,04	0,03	**0,47**	-4% to +4%
Eutrophication potential (EP)	kg PO_4^{3-} eq.	0,10	0,01	0,01	**0,12**	-4% to +9%
Global warming potential (GWP100a)	kg CO_2 eq.	133,8	6,7	3,0	**143,6**	-7% to +4%
Formation potential of tropospheric ozone (POCP)	kg C_2H_4 eq.	0,036	0,002	0,001	**0,038**	-6% to +9%
Abiotic depletion potential, elements	kg Sb eq.	2,95E-04	1,11E-05	5,20E-06	**3,11E-04**	-6% to +8%
Abiotic depletion potential, fossil resources	MJ, net calorific value	742,9	104,2	28,0	**875,1**	-15% to +12%
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC-11 eq.	1,98E-06	1,27E-06	1,08E-06	**4,33E-06**	-24% to +29%

Use of resources

1 metric ton of the average Reinforced concrete product for traffic, railroad and retaining walls

Resource use

Table 5. The results from the LCA showing the resource consumption from 1 DU during the life cycle stages assessed.

PARAMETER		UNIT	A1	A2	A3	TOTAL
Primary energy resources – Renewable	Use as energy carrier	MJ, net calorific value	76	1	79	157
	Used as raw materials	MJ, net calorific value	0	0	0	0
	TOTAL	MJ, net calorific value	76	1	79	**157**
Primary energy resources – Non-renewable	Use as energy carrier	MJ, net calorific value	788	106	156	1050
	Used as raw materials	MJ, net calorific value	0	0	0	0
	TOTAL	MJ, net calorific value	788	106	156	**1050**
Secondary material		kg	2	0	0	**2**
Renewable secondary fuels		MJ, net calorific value	171	0	0	**171**
Non-renewable secondary fuels		MJ, net calorific value	187	0	0	**187**
Net use of fresh water		m^3	1,28	0,02	0,12	**1,43**

Waste production

Table 6. The results from the LCA showing the waste production from 1 DU during its different life cycle stages.

IMPACT CATEGORY	UNIT	A1	A2	A3	TOTAL
Hazardous waste disposed	kg	0,002	0,001	0,051	0,054
Non-hazardous waste disposed	kg	1,53	2,12E-04	0,23	1,76
Radioactive waste disposed	kg	0,004	0	3,68E-07	0,004

Output flows

Table 7. The results from the LCA showing the output flows from 1 DU during its different life cycle stages.

IMPACT CATEGORY	UNIT	A1	A2	A3	TOTAL
Components for reuse	kg	0	0	0	0
Material for recycling	kg	0	0	0,381	0,381
Materials for energy recovery	kg	0,002	0	0,872	0,874
Energy recovery	MJ	0	0	0	0

References

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Appendix A

The following Tables (Table A1-A3) list all products from S:t Eriks' product range for which this EPD is valid.

Table A1. The reinforced concrete products for traffic covered by this EPD.

Product	Product no.
Linebloc 700	5140-401000
Linebloc 700	5140-401600
Linebloc 700	5140-201500
Linebloc 900	5146-400000
Linebloc 900	5146-401600
Linebloc 900	5146-400100
Linebloc 900	5146-400200
Linebloc 900	5146-401300
Linebloc 900	5146-401400
Linebloc 900	5146-401500
Rebloc 60	5142-201000
Rebloc 60	5142-411000
Rebloc 60	5142-611000
Rebloc 60	5142-311500
Rebloc 80	5143-211000
Rebloc 80	5143-411000
Rebloc 80	5143-811000
Rebloc 80	5143-811002
Rebloc 80	5143-411500
Rebloc 100	5144-211000
Rebloc 100	5144-411000

Product	Product no.
Rebloc 100	5144-811000
Rebloc 100	5144-811002
Rebloc 100	5144-411500
Vägkudde	5121-203600
Rondellelement	5114-080200
Räckesplatta 1	5123-010000
Räckesplatta 2	5123-020000
Räckesplatta 3	5123-030000
Hållplatskantstöd	5115-100000
Hållplatskantstöd	5115-150100
Hållplatskantstöd	5115-150200
Hållplatskantstöd	5112-100000
Hållplatskantstöd	5112-150100
Hållplatskantstöd	5112-150200
Hållplatskantstöd	5112-050100
Hållplatskantstöd	5112-050200
Valmplatta	9682-080000
Valmkantplatta	9682-080100
Stålskodd refug	5120-120025
Stålskodd refug	5120-120180
Stålskodd refug	5120-120280

Product	Product no.
Stålskodd refug	5120-150025
Stålskodd refug	5120-150180
Stålskodd refug	5120-150280
Stålskodd refug	5120-200025
Stålskodd refug	5120-200180
Trafidämp	5121-100300
kulting	5122-110000
kulting	5122-111000
snäckan	5122-091000
snäckan	5122-091006
trafistopp	5125-100500
trafistopp	5125-100501
tåget	5122-130001
tåget	5122-130002
tåget	5122-130003
trafipark	5126-490100
trafipark	5126-250100
trafipark dyna	5126-000001
trafipark dyna	5126-000004

Table A2. The reinforced concrete products for railroad covered by this EPD.

Product	Product no.
Plattformskant	7911-092020
Plattformskant	7911-102020
Plattformskant	7911-112020
Plattformskant	7911-122020
Plattformskant	7911-142020
Kantplatta	7912-012020
Kantplatta	7912-013020
Kantplatta	7913-013020
Kantplatta	7913-012020
Kantplatta	7913-013420
Kantplatta	7912-011099
Banmur bottenplatta	6311-072000
Banmur bottenplatta	6311-073000
Banmur bottenplatta	6311-074000
Banmur bottenplatta	6311-075000
Banmur bottenplatta	6311-075000
Banmur bottenplatta	6311-076000
Banmur bottenplatta	6311-072006
Banmur block	6312-042000
Banmur block	6312-043000
Bantrumma bottenplatta	6211-062010
Bantrumma bottenplatta	6211-082012
Bantrumma bottenplatta	6211-102014
Bantrumma bottenplatta	6211-122016
Bantrumma bottenplatta	6211-142018
Bantrumma bottenplatta	6211-162020
Bantrumma bottenplatta	6211-192023
Bantrumma bottenplatta	6211-252029
Bantrumma bottenplatta	6211-322038
Bantrumma valv	6212-062006
Bantrumma valv	6212-082008
Bantrumma valv	6212-102010
Bantrumma valv	6212-122012
Bantrumma valv	6212-142014

Product	Product no.
Bantrumma valv	6212-162016
Bantrumma valv	6212-192019
Bantrumma valv	6212-252530
Bantrumma valv	6212-322032
Bantrumma trumände	6213-061506
Bantrumma trumände	6213-081508
Bantrumma trumände	6213-101510
Bantrumma trumände	6213-121512
Bantrumma trumände	6213-141514
Bantrumma trumände	6213-161516
Bantrumma trumände	6213-191519
Bantrumma trumände	6213-252530
Kabelränna	6514-170000
Kabelränna	6112-170000
Kabelränna	6514-120000
Kabelränna	6112-120000
Kabelränna	6111-350060
Kabelränna	6111-350090
Kabelränna	6111-350020
Kabelränna	6112-353300
Kabelränna	6112-353400
Kabelränna	6111-350030
Kabelränna	6111-350010
Kabelränna	6111-350040
Kabelränna	6112-350040
Kabelränna med lock	6111-718300
Kabelränna med lock	6111-718020
Kabelränna med lock	6111-718083
Kabelränna med lock	6111-718085
Kabelränna med lock	6111-718006
Kabelränna med lock	6111-718501
Kabelränna med lock	6112-718301
Kabelränna med lock	6112-718023
Kabelränna med lock	6112-718086
Kabelränna med lock	6112-718007
Kabelränna med lock	6112-722404

Product	Product no.
Kabelränna med lock	6111-000010
Kabelränna med lock	6111-000012
Kabelränna med lock	6111-000014
Kabelränna med lock	6111-000016
Kabelränna med lock	6111-000017
Kabelränna med lock	6111-000022
Kabelränna med lock	6112-000011
Kabelränna med lock	6115-000013
Kabelränna med lock	6112-000015
Kabelränna med lock	6112-000018
Kabelränna	6111-003523
Kabelränna	6111-003537
Kabelränna	6111-003560
Kabelränna	6111-003563
Kabelränna	6111-003564
Kabelränna	6111-003646
Kabelränna	6111-005322
Kabelränna	6111-005337
Kabelränna	6111-005363
Kabelränna	6111-005364
Kabelränna	6111-350000
Kabelränna	6111-356000
Kabelränna	6111-000010
Kabelränna	6111-401000
Kabelränna	6111-530000
Kabelränna	6111-000012
Kabelränna	6111-560000
Kabelränna	6111-000014
Kabelränna	6111-722404
Kabelränna	6111-882000
Kabelränna	6111-000022
Kabelränna	6111-530900
lock till kabelränna	6112-350000
lock till kabelränna	6112-350300
lock till kabelränna	6112-000011
lock till kabelränna	6112-400000

Product	Product no.
lock till kabelränna	6112-530000
lock till kabelränna	6112-530300
lock till kabelränna	6112-000013
lock till kabelränna	6112-560000
lock till kabelränna	6112-000015
lock till kabelränna	6112-722404
lock till kabelränna	6112-882037
lock till kabelränna	6112-882050
lock till kabelränna	6112-000018
lock till kabelränna	6112-000003
lock till kabelränna	6112-350014
lock till kabelränna	6112-350015
lock till kabelränna	6112-350016
lock till kabelränna	6112-350017
Fundament	6511-050100
Fundament	6511-050200
Fundament	6511-070100
Fundament	6511-090100
Fundament	6514-130000
Kontaktlednings-fundament	6511-060100
Kontaktlednings-fundament	6511-060200
Kontaktlednings-fundament	6511-140200
Kontaktlednings-fundament	6511-140300
Kontaktlednings-fundament	6511-140400
Stagankare	6512-181000
Sugtransformator	6513-26000

Table A3. The reinforced concrete products for retaining walls covered by this EPD.

Product	Product no.	Product	Product no.	Product	Product no.	Product	Product no.
stödmur not- fjäder 5kn	7111-041004	stödmur not- fjäder 20kn	7111-121020	stödmur not- not 5kn	711*-142004	T mur not- not 5kn	7214-322004
stödmur not- fjäder 5kn	7111-042004	stödmur not- fjäder 20kn	7111-122020	stödmur not- not 5kn	711*-161004	T mur not- not 5kn	7214-342004
stödmur not- fjäder 5kn	7111-043004	stödmur not- fjäder 20kn	7111-141020	stödmur not- not 5kn	711*-162004	T mur not- not 5kn	7214-362004
stödmur not- fjäder 5kn	7111-061004	stödmur not- fjäder 20kn	7111-142020	stödmur not- not 5kn	711*-181004	T mur not- not 5kn	7214-382004
stödmur not- fjäder 5kn	7111-062004	stödmur not- fjäder 20kn	7111-161020	stödmur not- not 5kn	711*-182004	T mur not- not 5kn	7214-402004
stödmur not- fjäder 5kn	7111-063004	stödmur not- fjäder 20kn	7111-162020	stödmur not- not 5kn	711*-201004	T mur not- not 5kn	7214-422004
stödmur not- fjäder 5kn	7111-081004	stödmur not- fjäder 20kn	7111-181020	stödmur not- not 5kn	711*-202004	T mur not- not 5kn	7214-442004
stödmur not- fjäder 5kn	7111-082004	stödmur not- fjäder 20kn	7111-182020	stödmur not- not 20kn	711*-041020	T mur not- not 5kn	7214-462004
stödmur not- fjäder 5kn	7111-101004	stödmur not- fjäder 20kn	7111-201020	stödmur not- not 20kn	711*-042020	T mur not- not 5kn	7214-482004
stödmur not- fjäder 5kn	7111-102004	stödmur not- fjäder 20kn	7111-202020	stödmur not- not 20kn	711*-061020	T mur not- not 5kn	7214-502004
stödmur not- fjäder 5kn	7111-121004	stödmurshörn not- fjäder 20kn	7411-060020	stödmur not- not 20kn	711*-062020	T mur not- not 20kn	7214-162020
stödmur not- fjäder 5kn	7111-122004	stödmurshörn not- fjäder 20kn	7411-080020	stödmur not- not 20kn	711*-081020	T mur not- not 20kn	7214-182020
stödmur not- fjäder 5kn	7111-141004	stödmurshörn not- fjäder 20kn	7411-100020	stödmur not- not 20kn	711*-082020	T mur not- not 20kn	7214-202020
stödmur not- fjäder 5kn	7111-142004	stödmurshörn not- fjäder 20kn	7411-120020	stödmur not- not 20kn	711*-101020	T mur not- not 20kn	7214-222020
stödmur not- fjäder 5kn	7111-161004	stödmurshörn not- fjäder 20kn	7411-140020	stödmur not- not 20kn	711*-102020	T mur not- not 20kn	7214-242020
stödmur not-fjäder 5kn	7111-162004	stödmurshörn not- fjäder 20kn	7411-160020	stödmur not- not 20kn	711*-121020	T mur not- not 20kn	7214-262020
stödmur not-fjäder 5kn	7111-181004	stödmurshörn not- fjäder 20kn	7411-180020	stödmur not- not 20kn	711*-122020	T mur not- not 20kn	7214-282020
stödmur not- fjäder 5kn	7111-182004	stödmurshörn not-fjäder20kn	7411-200020	stödmur not- not 20kn	711*-141020	T mur not- not 20kn	7214-302020
stödmur not- fjäder 5kn	7111-201004	stödmur not- not 5kn	711*-041004	stödmur not- not 20kn	711*-142020	T mur not- not 20kn	7214-322020
stödmur not- fjäder 5kn	7111-202004	stödmur not- not 5kn	711*-042004	stödmur not- not 20kn	711*-161020	T mur not- not 20kn	7214-342020
stödmurshörn not-fjäder 5kn	7411-040004	stödmur not- not 5kn	711*-043004	stödmur not- not 20kn	711*-162020	T mur not- not 20kn	7214-362020
stödmurshörn not-fjäder 5kn	7411-060004	stödmur not- not 5kn	711*-061004	stödmur not- not 20kn	711*-181020	T mur not- not 20kn	7214-382020
stödmurshörn not-fjäder 5kn	7411-080004	stödmur not- not 5kn	711*-062004	stödmur not- not 20kn	711*-182020	T mur not- not 20kn	7214-402020
stödmurshörn not-fjäder 5kn	7411-100004	stödmur not- not 5kn	711*-063004	stödmur not- not 20kn	711*-201020	T mur not- not 20kn	7214-422020
stödmurshörn not-fjäder 5kn	7411-120004	stödmur not- not 5kn	711*-081004	stödmur not- not 20kn	711*-202020	T mur not- not 20kn	7214-442020
stödmurshörn not-fjäder 5kn	7411-140004	stödmur not- not 5kn	711*-082004	Hörn o dekorationselement	7414-06XX00	T mur not- not 20kn	7214-462020
stödmurshörn not-fjäder 5kn	7411-160004	stödmur not- not 5kn	711*-101004	Hörn o dekorationselement	7414-12XX00	T mur not- not 20kn	7214-482020
stödmurshörn not-fjäder 5kn	7411-180004	stödmur not- not 5kn	711*-102004	T mur not- not 5kn	7214-162004	T mur not- not 20kn	7214-502020
stödmurshörn not-fjäder 5kn	7411-200004	stödmur not- not 5kn	711*-121004	T mur not- not 5kn	7214-182004	Hörnelement T stöd	7414-389000
stödmur not- fjäder 20kn	7111-061020	stödmur not- not 5kn	711*-122004	T mur not- not 5kn	7214-202004	Hörnelement T stöd	7414-409000
stödmur not- fjäder 20kn	7111-062020	stödmur not- not 5kn	711*-141004	T mur not- not 5kn	7214-222004	Hörnelement T stöd	7414-429000
stödmur not- fjäder 20kn	7111-081020			T mur not- not 5kn	7214-242004	Hörnelement T stöd	7414-449000
stödmur not- fjäder 20kn	7111-082020			T mur not- not 5kn	7214-262004	Hörnelement T stöd	7414-469000
stödmur not- fjäder 20kn	7111-101020			T mur not- not 5kn	7214-282004		
stödmur not- fjäder 20kn	7111-102020			T mur not- not 5kn	7214-302004		

* står för 2=rollad / 4=släta