



Byggvarubedömmningen's Application form

Byggvarubedömmningen's Application form meet the requirements regarding chemical content in coherence with eBVD2015.

NRF 50, NRF 100, NRFB 100, NRFV silencers

1. General information

Supplier information	
Supplier	ETS NORD AS Sverige filial
Contact person at Supplier	KADI ALBER
E-mail address to contact person	kadi.alber@etsnord.com
Phone number to contact person	00358452669999
Manufacturer (if other than supplier)	
Social responsibility in the Supply Chain	
Have your company or organisation relevant certificates regarding Social responsibility?	Yes
Specify which	ISO 14001 ISO 9001 Other
Please describe	ESG reporting- CSRD directive
Have your company or organisation a written Policy or a Code of conduct handling Social responsibility in supply chain?	Yes
What parts are included in the Policy or Code of conduct?	The UN Universal Declaration of Human Rights The UN Convention on the Rights of the Child, Article 32 The eight core conventions of the ILO (forced or compulsory labour, child labour, discrimination, freedom of association and the right to collective bargaining) Labour law Work environment Environment The UN Convention against Corruption
Is the Policy or Code of conduct communicated to employees and to suppliers in supply chain?	Yes

Is someone in your company's management team appointed responsible for work and routines regarding Social responsibility?	Yes
Is there a routine within your company or organisation how to take action in supply chain regarding Social responsibility?	Yes
What is included in the routine action?	<p>Mapping - of the product's supply chain</p> <p>Risk analysis - identification of risks in the product's supply chain</p> <p>Action plan - how identified risks shall be managed</p> <p>Follow up - of identified risks as well as the product's suppliers/subsuppliers</p> <p>Deviation management - how deviations shall be managed</p>

2. Product information

Product		
Product name	NRF 50, NRF 100, NRFB 100, NRV silencers	
City and Country for production of product	Tallinn	
Country for raw material recovery	Estonia	

Product description	<p>NRF is straight circular silencer with 50 or 100 mm noise-absorbing mineral wool. The silencer consists of a perforated inner tube and an outer shell made of galvanized sheet steel. For connection to the ventilation ductwork, the silencer is equipped with duct connections with rubber gaskets. The space between the perforated duct and the casing is filled with sound-absorbing material.</p> <p>Density class: D Standard dimensions: Ø100-500 mm Standard lengths: 300, 600, 900, 1200 mm</p> <p>NRFB 100 is a straight circular silencer with 100 mm noise-absorbing mineral wool and an additional 100 mm noise-absorbing cassette. The silencer consists of a perforated inner tube and an outer shell made of galvanized sheet steel. For connection to the ventilation ductwork, the silencer is equipped with duct connections with rubber gaskets.</p> <p>Density class: C Standard dimensions: Ø315-1400 mm Standard lengths: 600, 900, 1200 mm</p> <p>NRFV is a noise-attenuating bend with 50 or 100 mm noise-absorbing mineral wool. The silencer consists of a perforated inner tube and an outer shell made of galvanized sheet steel. For connection to the ventilation ductwork, the silencer is equipped with duct connections with rubber gaskets. The space between the perforated duct and the casing is filled with sound-absorbing material.</p> <p>Standard dimensions: Ø100-315 mm</p>
BSAB	QK - Ljuddämpare QL - Ventilationskanaler m m
BK04-code	21002 Kanalsystem 21099 Ventilation övrigt 21098 Ventilation tillbehör
Type of product	
Type of product	Article
Area of use	Indoor
Has a Declaration of performance, in accordance with European Construction Products Regulation (EU) nr 305/2011, been prepared for the product?	No

3. Declaration of contents

Public substance						
Substance	CAS / EC / alloy number	Total weight-% of the substance in the product	Component	Weight-% of the substance in the component/raw material	Comment	Function of the substance in the product
EPDM synonym Ethylene-ethylidene-norbornene-propylene terpolymer	CAS: 25038-36-2 EC: Saknas	2%	Connection Seals	100%	EPDM rubber gasket for duct connection	
Destillat (petroleum), vätebehandlade tunga paraffiniska	CAS: 64742-54-7 EC: 265-157-1	0,3≤ x ≤0,4%	Connection Seals	15≤ x ≤20%		
Aktivt kol, Carbon Black, Char, from refuse burner, C.I. Pigment Black 7, Acetylene black, Carbon, amorphous	CAS: 1333-86-4 EC: 215-609-9	0,1≤ x ≤0,2%	Connection Seals	5≤ x ≤10%		
Zinkoxid	CAS: 1314-13-2 EC: 215-222-5	0,04≤ x ≤0,1%	Connection Seals	2≤ x ≤5%		
Svavel	CAS: 7704-34-9 EC: 231-722-6	0,01≤ x ≤0,02%	Connection Seals	0,5≤ x ≤1%		
Polypropen (PP) synonym viscol 660 P eller marlex HGH 050-01	CAS: 9003-07-0	5%	Fabric Layer	100%	Protective layer; dust and moisture barrier, also protects that wool insulation doesn't get into the ventilation duct	
Tris(2,4-ditert-butylphenyl) phosphite	CAS: 31570-04-4 EC: 250-709-6	0,00025≤ x ≤0,00075 %	Fabric Layer	0,005≤ x ≤0,015%		

Benzenepropanoic acid, 3,5-bis(1,1-dimethyl- ylethyl)-4-hydroxy- , 2,2-bis[[3-[3,5-bis(1,1-dimethyl- ylethyl)- -4-hydroxyphenyl]- -1-oxopropoxy]m- ethyl]-1,3-propane- diyl ester	CAS: 6683-19-8 EC: 229-722-6	0,00025≤ x ≤0,00075 %	Fabric Layer	0,005≤ x ≤0,015%		
Kalciumstearat	CAS: 1592-23-0 EC: 216-472-8	0,000125 ≤ x ≤0,0005%	Fabric Layer	0,0025≤ x ≤0,01%		

Kallvalsad förzinkad stålplåt (DIN:DC51D, Z275)	CAS: Övrigt, metaller	49%	Outer Casing	100%	Comment for Hot-dip galvanized steel component- s (Outer casing and Inner perforated tube) The material used for both the outer casing and the perforated inner tube is hot-dip galvanized steel sheet (EN 10346:2015 ,DX51D+Z2 75). Accordi- ng to the standard, the base material consists mainly of low-carbon steel (iron) with minor alloying elements (Mn, C, Si) in trace amounts below 0.05%. The Z275 coating indicates a zinc layer of 275 g/m ² (both sides), correspond- ing to approximat- ely 0.8 wt% zinc of the total sheet mass, while the rest (~99.2 wt%) is	
				6		

Minor alloying elements (Mn, C, Si)	CAS: Övrigt	0,0245≤ x ≤0,049%	Outer Casing	0,05≤ x ≤0,1%	Minor alloying elements (Mn, C, Si)	
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Kallvalsad förzinkad stålplåt (DIN:DC51D, Z275)	CAS: Övrigt, metaller	15%	Perforated Inner Tube	100%	<p>he material used for both the outer casing and the perforated inner tube is hot-dip galvanized steel sheet (EN 10346:2015, DX51D+Z275).</p> <p>According to the standard, the base material consists mainly of low-carbon steel (iron) with minor alloying elements (Mn, C, Si) in trace amounts below 0.05%.</p> <p>The Z275 coating indicates a zinc layer of 275 g/m² (both sides), corresponding to approximately 0.8 wt% zinc of the total sheet mass, while the rest (~99.2 wt%) is iron.</p> <p>Therefore, the composition has been reported as:</p> <p>Iron (Fe) CAS 7439-89-6 ≈ 99.2</p>
				8	

Minor alloying elements (Mn, C, Si)	CAS: Övrigt	0,0075≤ x ≤0,015%	Perforated Inner Tube	0,05≤ x ≤0,1%	Minor alloying elements (Mn, C, Si)	
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<p>Kiseldioxid synonym diatomitjord, kiselgur, amorf kiselsyra, C.I. 77811, E 551</p>	<p>CAS: 7631-86-9 EC: 231-545-4</p>	<p>12,18≤ x ≤13,05%</p>	<p>Stone wool insulation (PAROC Pro Mat WR 640)</p>	<p>42≤ x ≤45%</p>	<p>The insulation material used in the product is PAROC Pro Mat WR 640, a non-combu- stible stone wool insulation designed for HVAC and industrial application- s. According to PAROC's product datasheet and Environme- ntal Product Declaration (EPD), the material consists mainly of inorganic mineral oxides produced from natural rock (basalt and diabase), combined with a small amount of organic binder. The typical compositio- n by weight is: Silicon dioxide (SiO₂) 40-45%</p>	<p>Alu- minium oxide (Al₂O₃) 18-22%</p>

Aluminiumoxid, Aluminiumtrioxid,	CAS: 1344-28-1 EC: 215-691-6	6,67%	Stone wool insulation (PAROC Pro Mat WR 640)	23%		
Kalciumoxid (CaO), Calcium oxide, Burnt lime	CAS: 1305-78-8 EC: 215-138-9	4,64%	Stone wool insulation (PAROC Pro Mat WR 640)	16%		
Järn(III)oxid synonym C.I. Pigment Brown 7, C.I. Pigment Red 102, C.I. Pigment Red 101 eller järnglimmer	CAS: 1309-37-1 EC: 215-168-2	1,74%	Stone wool insulation (PAROC Pro Mat WR 640)	6%		
Magnesiumoxid (MgO), Calcined magnesia, Magnesium oxide, E 530	CAS: 1309-48-4 EC: 215-171-9	1,45%	Stone wool insulation (PAROC Pro Mat WR 640)	5%		
Phenol, polymer with formaldehyde	CAS: 9003-35-4	1,45%	Stone wool insulation (PAROC Pro Mat WR 640)	5%		

Candidate List

Does the product or any of its subcomponents contain so called Substances of Very High Concern (SVHC), which are included in the Candidate List at a concentration ≥0.1 weight%?	No
State the date (year, month, day) for control of the Candidate List	2025-10-14

Restriction list

Does the product (or any of its components) contain substances listed in the restricted list?	No
Specify the date for cross-referencing against the restriction list	2025-10-14

POP's regulation

Does the product (or any of its components) contain substances listed in the POP's regulation list?	No
Specify the date for cross-referencing against the POP's regulation list	2025-10-14

Nanomaterials

Does the product contain any nanomaterial that has been purposefully added to achieve a specific function?	No
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4. Included materials and raw materials

Included materials and raw materials

Does the product contain recycled material?	Yes
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Total share of recycled material from post-consumer of the entire product		19,6%				
Recycled materials						
Name of material / CAS / EC / alloy number	Name of component where recycled material is included	Total amount (weight-%) of recycled material in the product	Amount of recycled material that has not reached consumer level, such as production waste, etc, i.e pre-consumer. (Weight-%)	Amount of recycled material that has reached consumer level, i.e post-consumer. (Weight-%)	Total post	Comment
Järn	Outer Casing, Perforated Inner Tube	x = 98	x = 80	x = 20	19,6%	<p>We are calculating the recycled content, which includes additional recovered materials (pre-consumer material) and amounts 94.6 %</p> <p>It is estimated that the pre-consumer recycled content was about 21% and the post-consumer recycled content 70%</p>

5. Production phase

Questions related to production	
Has an Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804 (or equivalent for other product groups) been prepared for the product?	Yes, product specific

6. Describe the management of packaging for distribution of the product

Describe packaging of product when distributed	
Packaging material	Cardboard
Specify the packaging material used and which system of producer responsibility for packaging the supplier is affiliated to	
State whether any system for taking back or recycling packaging or any other specific return system is used	N=
Enter the proportion (%) of recycled material, if any, included in the packaging	0
Comment	

7. Construction and usage phase

Construction and usage phase	
Estimated technical life for the product	20
Are there any special requirements such as storage conditions for the product during storage?	No
Are there any special requirements for adjacent building products because of this product?	No

8. Waste handling

Waste management of product	
Does the product require special measures to protect health and the environment in conjunction with demolition/dismantling?	No
Is it possible to re-use all or parts of the product? (Can the product be reused within the product's expected lifetime?)	Yes

Please describe	Parts of the product can be reused if they remain in good condition. The galvanized steel casing and inner tube may be reused after inspection, while insulation and seals should be replaced due to aging. Complete re-use is possible only after technical evaluation.
Is material recycling possible for all or parts of the product when it becomes waste?	Yes
Please describe	Most parts of the product can be recycled as material. The galvanized steel casing and inner tube are fully recyclable as metal scrap. Stone wool insulation can be reused or disposed of as inert mineral waste, and plastic or rubber parts can be sent for energy recovery.
Is energy recycling possible for all or parts of the product when it becomes waste?	Yes
Please describe	Energy recovery is possible for the polymer-based parts of the product, such as the polypropylene fabric and EPDM seals. These components can be used as fuel in approved waste-to-energy facilities.
Does the supplier have any restrictions and recommendations for reuse, material- or energy recycling or disposal?	No
Please describe	The supplier has no specific restrictions regarding reuse, material recycling, or energy recovery. It is recommended that metal parts be recycled as scrap, mineral wool handled as inert waste, and polymer parts sent for energy recovery according to local waste regulations
When the supplied product becomes waste, is it classified as hazardous waste?	No
Please specify waste codes for non-hazardous waste	The product does not contain any substances or components that would cause it to be classified as hazardous waste upon disposal, and its substance content does not exceed the limits set by the RoHS Directive
Is the product covered by the WEEE-directive 2012/19/EU (Swedish ordinance (2014:1075) on Producer Responsibility for electrical and electronic products when it becomes waste?	No
Please describe	

9. Indoor environment

Indoor environment	
Has the product a critical moisture condition?	No
Has emission data been produced for volatile organic compounds?	No
Please state any motivation for why emission data for volatile organic compounds is not relevant for the product:	The primary reason is that our product does not contain or emit any VOCs

Files	
Name	Document type
140014_RENOLIN_FLEX_RP_100_S_240909015953.pdf	Declaration of subcomponent
Building Product Declaration.pdf	Building Product Declaration
NORDsilencer_1.png	Product picture
RDM-025_NORDsilencer_round_installation_en.pdf	Installation instructions
RDT-004_NRFB-NRPB-100_silencer_en.pdf	Technical product data sheet
RDT-004_NRF-NRP-100_silencer_en.pdf	Technical product data sheet
RDT-004_NRF-NRP-50_silencer_en.pdf	Technical product data sheet
RDT-004_NRFV-NRPV_bend silencer_en.pdf	Technical product data sheet
RTS_290_24_EPД_silencers_ETS-NORD.pdf	Environmental Product declaration (EPD)

Item specification				
Item name	Item number	GTIN/EAN	RSK-number	E-number
NRF 50 100-300 Round silencer		474330213290 6		
NRF 50 100-600 Round silencer		474330213291 3		
NRF 50 100-900 Round silencer		474330213292 0		
NRF 50 100-1200 Round silencer		474330213289 0		
NRF 50 125-300 Round silencer		474330213295 1		
NRF 50 125-600 Round silencer		474330213296 8		
NRF 50 125-900 Round silencer		474330213297 5		
NRF 50 125-1200 Round silencer		474330213294 4		
NRF 50 160-300 Round silencer		474330213300 2		
NRF 50 160-600 Round silencer		474330213301 9		
NRF 50 160-900 Round silencer		474330213302 6		
NRF 50 160-1200 Round silencer		474330213299 9		
NRF 50 200-300 Round silencer		474330213305 7		
NRF 50 200-600 Round silencer		474330213306 4		
NRF 50 200-900 Round silencer		474330213307 1		
NRF 50 200-1200 Round silencer		474330213303 3		
NRF 50 250-300 Round silencer		474330213312 5		
NRF 50 250-600 Round silencer		474330213313 2		
NRF 50 250-900 Round silencer		474330213314 9		
NRF 50 250-1200 Round silencer		474330213309 5		
NRF 50 250-1500 Round silencer		474330213310 1		
NRF 50 315-600 Round silencer		474330213317 0		
NRF 50 315-900 Round silencer		474330213318 7		

NRF 50 315-1200 Round silencer		474330213316 3		
NRF 50 400-600 Round silencer		474330213320 0		
NRF 50 400-900 Round silencer		474330213321 7		
NRF 50 400-1200 Round silencer		474330213319 4		
NRF 50 500-600 Round silencer		474330213323 1		
NRF 50 500-900 Round silencer		474330255981 9		
NRF 50 500-1200 Round silencer		474330213322 4		
NRF 50 630-600 Round silencer		474330213325 5		
NRF 50 630-900 Round silencer		474330213326 2		
NRF 50 630-1200 Round silencer		474330213324 8		
NRF 50 800-600 Round silencer		474330213328 6		
NRF 50 800-900 Round silencer		474330213329 3		
NRF 50 800-1200 Round silencer		474330213327 9		
NRF 100 100-300 Round silencer		474330213231 9		
NRF 100 100-600 Round silencer		474330213232 6		
NRF 100 100-900 Round silencer		474330213233 3		
NRF 100 100-1200 Round silencer		474330213230 2		
NRF 100 125-300 Round silencer		474330213239 5		
NRF 100 125-600 Round silencer		474330213240 1		
NRF 100 125-900 Round silencer		474330213241 8		
NRF 100 125-1200 Round silencer		474330213238 8		
NRF 100 160-300 Round silencer		474330213247 0		
NRF 100 160-600 Round silencer		474330213248 7		
NRF 100 160-900 Round silencer		474330213249 4		

NRF 100 160-1200 Round silencer		474330213246 3		
NRF 100 200-300 Round silencer		474330213252 4		
NRF 100 200-600 Round silencer		474330213253 1		
NRF 100 200-900 Round silencer		474330213254 8		
NRF 100 200-1200 Round silencer		474330213250 0		
NRF 100 200-1500 Round silencer		474330213251 7		
NRF 100 250-300 Round silencer		474330213257 9		
NRF 100 250-600 Round silencer		474330213258 6		
NRF 100 250-900 Round silencer		474330213259 3		
NRF 100 250-1200 Round silencer		474330213255 5		
NRF 100 250-1500 Round silencer		474330213256 2		
NRF 100 315-300 Round silencer		474330213263 0		
NRF 100 315-600 Round silencer		474330213264 7		
NRF 100 315-900 Round silencer		474330213265 4		
NRF 100 315-1200 Round silencer		474330213260 9		
NRF 100 315-1500 Round silencer		474330213261 6		
NRF 100 315-2000 Round silencer		474330213262 3		
NRF 100 400-300 Round silencer		474330213269 2		
NRF 100 400-600 Round silencer		474330213270 8		
NRF 100 400-900 Round silencer		474330213271 5		
NRF 100 400-1200 Round silencer		474330213266 1		
NRF 100 400-1500 Round silencer		474330213267 8		
NRF 100 400-2000 Round silencer		474330213268 5		
NRF 100 500-300 Round silencer		474330213275 3		

NRF 100 500-600 Round silencer		474330213276 0		
NRF 100 500-900 Round silencer		474330213277 7		
NRF 100 500-1200 Round silencer		474330213272 2		
NRF 100 500-1500 Round silencer		474330213273 9		
NRF 100 500-2000 Round silencer		474330213274 6		
NRF 100 630-900 Round silencer		474330213282 1		
NRF 100 630-1200 Round silencer		474330213278 4		
NRF 100 630-1500 Round silencer		474330213279 1		
NRF 100 630-2000 Round silencer		474330213280 7		
NRF 100 800-600 Round silencer		474330255966 6		
NRF 100 800-900 Round silencer		474330213287 6		
NRF 100 800-1200 Round silencer		474330213283 8		
NRF 100 800-1500 Round silencer		474330213284 5		
NRF 100 800-2000 Round silencer		474330213286 9		
NRF 100 1000-900 Round silencer		474330213237 1		
NRF 100 1000-1200 Round silencer		474330213234 0		
NRF 100 1000-1500 Round silencer		474330213235 7		
NRF 100 1000-2000 Round silencer		474330213236 4		
NRF 100 1250-1200 Round silencer		474330213242 5		
NRF 100 1250-1500 Round silencer		474330213243 2		
NRF 100 1250-2000 Round silencer		474330213244 9		
NRFB 100 315-600 Round silencer		474330213354 5		
NRFB 100 315-900 Round silencer		474330213355 2		
NRFB 100 315-1200 Round silencer		474330213353 8		

NRFB 100 400-600 Round silencer		474330213358 3		
NRFB 100 400-900 Round silencer		474330213359 0		
NRFB 100 400-1200 Round silencer		474330213356 9		
NRFB 100 400-1500 Round silencer		474330213357 6		
NRFB 100 500-600 Round silencer		474330213362 0		
NRFB 100 500-900 Round silencer		474330213363 7		
NRFB 100 500-1200 Round silencer		474330213360 6		
NRFB 100 500-1500 Round silencer		474330213361 3		
NRFB 100 630-600 Round silencer		474330213366 8		
NRFB 100 630-900 Round silencer		474330213367 5		
NRFB 100 630-1200 Round silencer		474330213364 4		
NRFB 100 630-1500 Round silencer		474330213365 1		
NRFB 100 800-900 Round silencer		474330213369 9		
NRFB 100 800-1200 Round silencer		474330213368 2		
NRFB 100 1000-900 Round silencer		474330213349 1		
NRFB 100 1000-1200 Round silencer		474330213348 4		
NRFB 100 1250-900 Round silencer		474330213352 1		
NRFB 100 1250-1200 Round silencer		474330213351 4		
NRFV 100-125 Round bend silencer		474330213421 4		
NRFV 100-160 Round bend silencer		474330213422 1		
NRFV 100-200 Round bend silencer		474330213423 8		
NRFV 100-250 Round bend silencer		474330213424 5		
NRFV 100-315 Round bend silencer		474330213425 2		
NRFV 100-400 Round bend silencer		474330213426 9		

NRFV 100-500 Round bend silencer		474330213427 6		
NRFV 100-630 Round bend silencer		474330213428 3		
NRFV 50-100 Round bend silencer		474330213429 0		
NRFV 50-125 Round bend silencer		474330213430 6		
NRFV 50-160 Round bend silencer		474330213431 3		
NRFV 50-200 Round bend silencer		474330213432 0		
NRFV 50-250 Round bend silencer		474330213433 7		
NRFV 50-315 Round bend silencer		474330213434 4		

Certificate of substance content and concentrations

It is hereby certified for the product that

Concentrations of the constituent substances have been reported down to a percentage by weight (wt%) of 0,01.
(This implies a complete declaration of contents in which all substances present in concentrations of $\geq 0,01$ wt% have been reported.)
Substances that are subject to specific concentration limits $< 0,01$ wt%: These substances are reported if they occur in concentrations up to 10 times lower than their specific concentration limit. (This means that if a substance's specific concentration limit is 0,0015 wt%, concentrations $\geq 0,00015$ wt% are to be reported.)
Actively added or contamination of mercury has been reported regardless of concentration.
Cadmium is reported in cases of $\geq 0,001$ wt%.

Concentrations of the constituent substances have been reported down to 0,1 wt%.
(This implies a complete declaration of contents in which all substances of concentrations $\geq 0,1$ wt% have been reported.)
Substances that are subject to specific concentration limits $< 0,1$ wt% have been reported when they occur. (This means that if a substance's specific concentration limit is 0,0015 wt%, concentrations $\geq 0,00015$ wt% are to be reported.)
-Actively added or contamination of mercury has been reported regardless of concentration.
-Cadmium is reported in cases of $\geq 0,01$ wt%.

None of the above alternatives but I have followed the instructions for Declaration of content, Byggvarubedömnings reporting requirements 2019-1 (Annex 1. Table 1)

I have followed Byggvarubedömnings reporting requirements 2019-1 (Annex 1. Table 1) equivalent to:

Accepted level
 Recommended level

Specifically indicated substances

Does the product contain any of the below listed substances or has any of the below listed substances been added during production phase or formed through reactions between the substances in the product?

Substance group/Substance

Arsenic and its compounds

Brominated flame retardants

Organotin compounds

Biocidal product applied on products (surface treatments) to provide a disinfectant or anti-bacterial effect.

Arsenic, or arsenic compounds, are not permitted to be added to the product. Contamination of used raw materials is not permitted to exceed 10 mg/kg. The concentration limit is set based on regulatory requirements for soil quality to ensure that products assessed as Recommended do not raise background concentrations through their use or disposal (for example; sludge from sewage treatment works Swedish Ordinance 1998:944, Section 20). The same concentration limits are found in the Swedish Environmental Protection Agency's general guidelines for sensitive land use. <https://www.naturvardsverket.se/Stod-i-miljoarbetet/Vagledningar/Fororenade-områden/Riktvärden-for-fororenad-mark/>

Yes
 No

Verification

I KADI ALBER hereby certify that the above data given in section Certificate of substance content and concentrations, is correct to my best knowledge.