

NSAI

Agrément



7. Test results

Post-test No.	Test/characteristic description	Measurement unit	Methods standardized	Specimen No. as per the incoming/outgoing logbook	Test results (uncertainty)	Deviations, supplements or environmental conditions exceptions from the test method	
1 2		3	4	5	6	7 8	
1. Single-flame source test							
1.1	Ignition		BDS EN ISO 11925-2:2011	0888-0/1	no	T=24°C RH = 54%	None
				0888-0/2	no		
				0888-0/3	no		
				0888-0/4	no		
				0888-0/5	no		
				0888-0/6	no		
				0888-0/7	no		
				0888-0/8	no		
				0888-0/9	no		
				0888-0/10	no		
				0888-0/11	no		
				0888-0/12	no		
1.2	Flame propagation up to 150 mm (Fs)		BDS EN ISO 11925-2:2011	0888-0/1	no	T=24°C RH = 54%	None
				0888-0/2	no		
				0888-0/3	no		
				0888-0/4	no		
				0888-0/5	no		
				0888-0/6	no		

Pos. Measurement Test/characteristic description No. unit			Methods standardized	Specimen No. as per the incoming/ outgoing logbook	Test results (uncertainty)	Deviations, supplements or Environmental conditions	exceptions from the test method
1.2.3			4	5	6	7	8
				0888-0/7	no		
				0888-0/8	no		
				0888-0/9	no		
				0888-0/10	no		
				0888-0/11	no		
				0888-0/12	no		
				0888-0/1	0		
				0888-0/2	0		
				0888-0/3	0		
				0888-0/4	0		
				0888-0/5	0		
				0888-0/6	0		
				0888-0/7	0		
				0888-0/8	0		
				0888-0/9	0		
				0888-0/10	0		
				0888-0/11	0		
				0888-0/12	0		

Pos. 1.2.3	Measurement Test/characteristic description No. unit	4	Methods standardized	Specimen No. as per the incoming/ outgoing logbook	6 Test results (uncertainty)	8 Deviations, supplements or Environmental exceptions from the conditions of the test method	7
1.4	Ignition of the filter paper	-	4 BDS EN ISO 11925-2: 2011	0888-0/1 0888-0/2 0888-0/3 0888-0/4 0888-0/5 0888-0/6 0888-0/7 0888-0/8 0888-0/9 0888-0/10 0888-0/11 0888-0/12	no no no no no no no no no no no no	T=24°C RH = 54%	None
1.5	Specimen behaviour	-	BDS EN ISO 11925-2: 2011	0888-0/1 0888-0/2 0888-0/3	does not form smoke no flaming particles does not form smoke no flaming particles does not form smoke no flaming particles	T=24°C RH = 54%	None

Pos. Test No.	characteristic description	Measurement unit	Methods standardized	Specimen No. as per the incoming/ outgoing logbook	Test results (uncertainty)	Deviations, supplements or environmental conditions exceptions from the test method	exceptions from the
1	2	3	4	5	6	7 8	
1.5	Specimen behaviour	-	BDS EN ISO 11925-2:2011	0888-0/4	does not form smoke no flaming particles	T=24°C RH = 54%	None
				0888-0/5	does not form smoke no flaming particles		
				0888-0/6	does not form smoke no flaming particles		
				0888-0/7	does not form smoke no flaming particles		
				0888-0/8	does not form smoke no flaming particles		
				0888-0/9	does not form smoke no flaming particles		
				0888-0/10	does not form smoke no flaming particles		
				0888-0/11	does not form smoke no flaming particles		
				0888-0/12	does not form smoke no flaming particles		

8. Additional information required as per:

- BDS EN ISO 11925-2:2011
- **Conditioning of the specimens for testing (temperature 23±2 °C and relative humidity 50±5%) - 2 weeks**
 - **Flame application time - 15 seconds to the surface of specimens with incoming No. 0888-0/1; 0888-0/2; 0888-0/3; 0888-0/4; 0888-0/5; 0888-0/6 and 15 seconds along the edge of specimens with incoming No. 0888-0/7; 0888-0/8; 0888-0/9; 0888-0/10; 0888-0/11; 0888-0/12.**

NOTE: The test results refer only to the behaviour of the product specimens tested and the test conditions defined; they are not intended to be the only criterion for determining the potential hazard of fire for the product during its use.

NOTE I: The test results refer only to the specimens tested.

NOTE II: The test protocol may be reproduced only in full and with the prior written consent of the laboratory.

Test conducted by: /sgd.: ill./ For the Laboratory Manage

r: /sgd.: ill./
(D. Teneva) (eng. K. Boycheva)

Round stamp of the Construction Products Testing Laboratory

Technical card

Angro NEO EPS 80+®

Description:	Expanded polystyrene graphite plates for construction insulation with increased thermal insulation effect.
Application:	For thermal insulation of outer walls in a combined thermal insulation system (WDVS) according to BDS EN 13499 and ETAG 004. Particularly suitable for passive and low energy buildings.
Size:	Plates with length 1000 mm, width 500 mm, thickness from 20 to 200 mm Edge Shape: Straight Edging (GK), Step edging (SF) - custom made.

Quantity in package

Thickness (mm)	Length x width (mm)	Number of plates	Space (mm)	Rd m ² K/W
	201000 x 50024	12	12	0,6
	301000 x 50016	0	0	0
	401000 x 50012	8,0	8,0	0,9
	501000 x 50010	6,0	6,0	5
	601000 x 5008	5,0	5,0	1,2
	701000 x 5007	4,0	4,0	5
	801000 x 5006	3,5	3,5	1,6
	901000 x 5005	3,0	3,0	0
	1001000 x 5005	2,5	2,5	1,9
	1201000 x 5004	2,5	2,5	0
	1401000 x 5004	2,0	2,0	2,2
	1601000 x 5003	2,0	2,0	5
	1801000 x 5003	1,5	1,5	2,5
	2001000 x 5002	1,5	1,5	5
	Other thicknesses, plate formats and edges - on request.	1,0	1,0	2,9

Product type:

Expanded polystyrene (EPS) according to EN 13163

Designation:

EPS® F + marking on the short side of the package

Identification code:

EPS-EN 13163-T2-L2-W2-Sb2-P5-DS(N)2-DS(70,-)1-BS150-CS(10)80-TR150-WL(T)2-MU(30-70)

Technical data:

Thermal conductivity $\lambda \leq 0,031$ W/mK	0
Compressive strength $\sigma \geq 80$ kPa	5,1
Bending strength $\sigma \geq 170$ kPa	5
Tensile strength $\sigma \geq 150$ kPa	5,8
Water absorption with continuous full immersion: $\leq 2\%$ of volume	0
Number of diffuse water vapor resistance $\mu: 30-70$	6,4
Fire reaction class: E	5

Temp. of application: Up to 85°C. Do not expose to direct sunlight.

Processing: According to the operating instructions and requirements of the component manufacturer of the combined thermal insulation system.

Angro NEO EPS 80+® does not contain fluorochlorine carbons (FCKW), HFCKW, HFKW, as well as HBCD.

Последна редакция: 09/2019

Angro Trade Ltd.



InSulation Shop:
LIMASSOL
Galinou 4 & Omonoias
T: 25 378 103 F: 25 313 176

Head office - Store House:
LARNAKA
1360 София
114 Европа
Bld. Tel.: +359
e-mail:

www.angro.bg
www.snsocyprus.com
7000 70 35

InSulation Shop



Производство и търговия: София 1360, бул. Европа 114
тел.: 02/925 22 39, факс: 925 22 40
0889 044 340, 0885 132 789, 0882 403 980, 0885 598 619
e-mail: angro_bg@abv.bg, angro_tr@abv.bg

www.angrobg.com

ANGRO - PORTLAND TERMO PT40 - adhesive for thermal insulation boards

PRODUCT DESCRIPTION

Dry mixture for bonding of heat-insulating panels. Very good adhesion on mineral bases and on thermal insulation boards. Hydro and frost-resistant. Contains fiber against cracking.

APPLICATION

For internal and external use. For bonding of heat insulating panels of extruded and expanded polystyrene, styrofoam, fiber, styrode, styrophon, monodur, mineral and glass wool, etc..

Preparation of the base:

The base must be clean, strong, dry, have sufficient bearing capacity, free from any dirt, grease, old paint, etc. Larger unevenness of the base is smooth with a suitable plaster, for example with lime-cement plaster. Primed with Deep Penetrating "AGG 125 Deep Penetrating Primer - Angro" or "AC 155 Contact Primer - Angro"

Mixing and application:

5 parts of the dry mixture are stirred with 2 parts of water with a mechanical stirrer, the water being added in portions. After 5 minutes, stir again. The mixed quantity can be used at 20 ° C for about 5 hours. The compressed material should never be diluted with water.

The adhesive can be applied to one of the two glued surfaces. When applying it on the heat-insulating board, first apply the glue on the periphery of the edge of the board and the board itself in 5-6 places with a jagged stainless steel spatula. With equal bases, adhesion can be done with a thin layer of glue spread with a notched trowel over the entire surface of the slab. In the case of brick masonry, the glue can be applied in a thicker layer (even or spot) in order to fill the roughness of the base

Dowelling can begin not earlier than 24 hours after the heat insulation boards (at 20 ° C).

Additional instructions:

The product contains cement.

Irritating to eyes and skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves.

TECHICAL DATA

Appearance: Powder

Odor: Characteristic

pH value at 20 C: about 12

Bulk density: about 1.1 ÷ 1.7g / cm³

Solubility in water: about 1.5% at 20 ° C

Open time: about 40 minutes

Tensile Brightness with Concrete &

Polystyrene after 7 days stay

Under normal conditions and 24 hours in

water:> 0.1 N / mm²

APPLICATION DETAILS

The cost of the product depends on the base and thickness of the reinforcement mesh. Approximate cost: For bonding 3-4 kg / m²

PACKAGING

25 kg baggs /pallet – 48 pcs

EXPIRATION DATE

12 months from date of production

Store in dry warehouses



InSulation Shop:
LIMASSOL
Galinou 4 & Omonoias
T: 25 378 103 F: 25 313 176

Head office - Store House:
LARNAKA
Filoktiti 5, Aradippou
T: 24 102 585 F: 24 102 586

www.snscyprus.com
7000 70 35

InSulation Shop

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-16/0509
of 17 August 2016

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the Deutsches Institut für Bautechnik

European Technical Assessment:

Trade name of the construction product LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Product family Nailed-in plastic anchor for fixing of external thermal
to which the construction product belongs insulation composite systems with rendering in concrete
and masonry

Manufacturer Klimas Sp. z o.o.

Kuznica Kiedrzynska
ul. Wincentego Witosa 135/137
42-233 MYKANÓW

POLEN

Manufacturing plant Klimas Sp. z o.o.

This European Technical Assessment 19 pages including 3 annexes which form an integral part
contains of this assessment

This European Technical Assessment is Guideline for European technical approval of "Plastic
issued in accordance with Regulation (EU) anchors for fixing of external thermal insulation composite
No 305/2011, on the basis of systems with rendering", ETAG 014, edition February
2011,
used as European Assessment Document (EAD)
according to Article 66 Paragraph 3 of Regulation (EU)
No 305/2011.

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.

Specific part

1 Technical description of the product

The nailed-in anchor LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10 consists of an anchor sleeve with an enlarged shaft, spreading zone subsequently, an insulation plate made of polyethylene and an accompanying specific nail of galvanised steel for the type LMX and LGX and an accompanying specific nail of polyamide for the type LTX. The serrated expanding part of the anchor sleeve is slotted.

The anchor may in addition be combined with the anchor plates TDX-P-90 / TDX-90 and TDX-P-140 / TDX-140.

An illustration and the description of the product are given in Annex A.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The performances given in Section 3 are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B.

The verification and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the anchor of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

The essential characteristics regarding mechanical resistance and stability are included under the Basic Works Requirement Safety in use.

3.2 Hygiene, health and the environment (BWR 3)

Regarding dangerous substances there may be requirements (e.g. transposed European legislation and national laws, regulations and administrative provisions) applicable to the products falling within the scope of this European Technical Assessment. In order to meet the provisions of Regulation (EU) No 305/2011, these requirements need also to be complied with, when and where they apply.

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic Performance

Characteristic tension resistance	See Annex C 1, C2
Edge distances and spacing	See Annex B 2
Point thermal transmittance	See Annex C 3
Plate stiffness	See Annex C 3
Displacements	See Annex C 4

3.4 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was determined for this product.

English translation prepared by DIBt

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with guideline for European technical approval ETAG 014, February 2011 used as European Assessment Document (EAD) according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011 the applicable European legal act is: 97/463/EC.

The system to be applied is: 2+

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

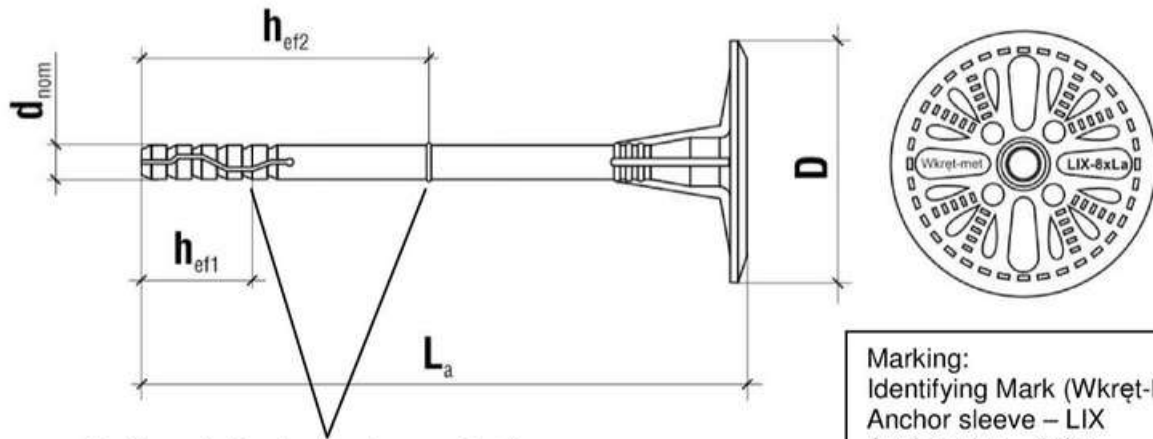
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 17 August 2016 by Deutsches Institut für Bautechnik

Uwe Bender
Head of Department

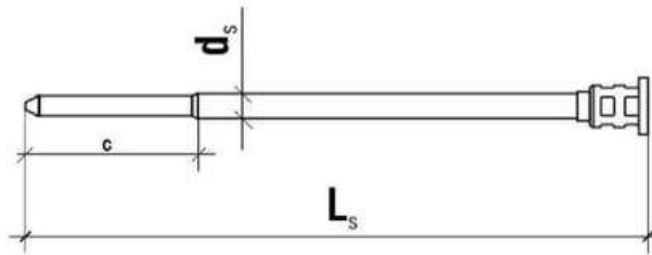
beglaubigt:
Ziegler

LTX-8



Marking of effective anchorage depth

Marking:
Identifying Mark (Wkret-Met)
Anchor sleeve – LIX
Anchor size – 8xLa



Accompanying specific nail TTX-4,8

Table A1: Dimensions

Anchor Type	Colour	Anchor Sleeve			Specific nail		
		d_{nom} [mm]	h_{ef} [mm]	min L_a max L_a [mm]	d_s [mm]	c [mm]	min L_s max L_s [mm]
LTX-8	natural	8	$h_{ef1} = 25$ $h_{ef2} = 65^*$	95 195	4,8	44	100 200

*) for category E

Determination of maximum thickness of insulation h_D [mm] for LTX-8:

$$h_D = L_a - t_{tol} - h_{ef} \quad (L_a = \text{e.g. } 95; t_{tol} = 10)$$

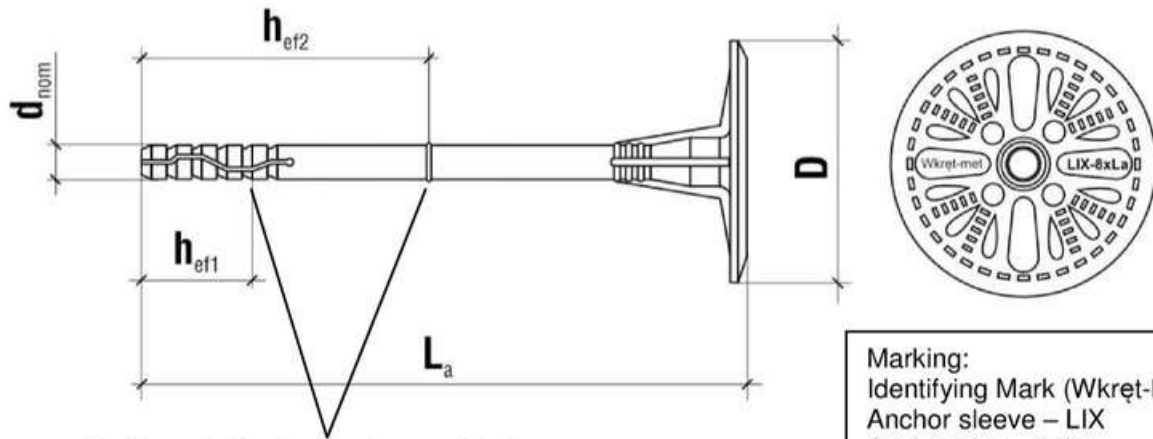
e.g. $h_D = 95 - 10 - 25 = 60$

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Product description
LTX-8 - marking and dimension of the anchor sleeve LIX
Expansion element TTX

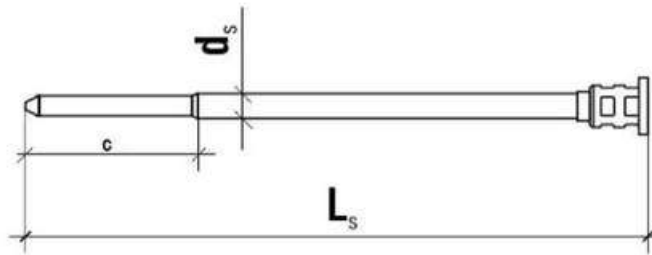
Annex A 2

LTX-8



Marking of effective anchorage depth

Marking:
Identifying Mark (Wkret-Met)
Anchor sleeve – LIX
Anchor size – 8xLa



Accompanying specific nail TTX-4,8

Table A1: Dimensions

Anchor Type	Colour	Anchor Sleeve			Specific nail		
		d_{nom} [mm]	h_{ef} [mm]	min L_a max L_a [mm]	d_s [mm]	c [mm]	min L_s max L_s [mm]
LTX-8	natural	8	$h_{ef1} = 25$ $h_{ef2} = 65^*$	95 195	4,8	44	100 200

*) for category E

Determination of maximum thickness of insulation h_D [mm] for LTX-8:

$$h_D = L_a - t_{tol} - h_{ef} \quad (L_a = \text{e.g. } 95; t_{tol} = 10)$$

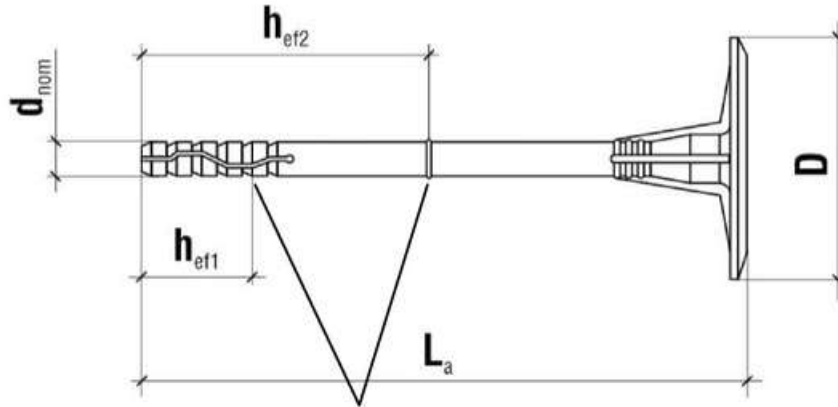
e.g. $h_D = 95 - 10 - 25 = 60$

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

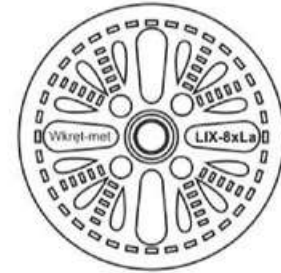
Product description
LTX-8 - marking and dimension of the anchor sleeve LIX
Expansion element TTX

Annex A 2

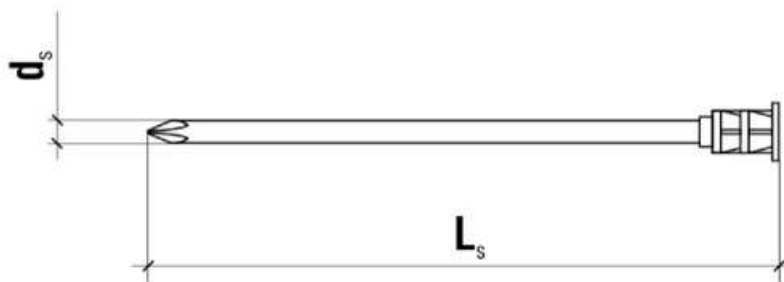
LMX-8



Marking of effective anchorage depth



Marking:
Identifying Mark (Wkret-Met)
Anchor sleeve – LIX
Anchor size – 8xLa



Accompanying specific nail TMX-4,4

Table A2: Dimensions

Anchor Type	Colour	Anchor Sleeve			Specific nail	
		d_{nom} [mm]	h_{ef} [mm]	min L_a max L_a [mm]	d_s [mm]	min L_s max L_s [mm]
LMX-8	natural	8	$h_{ef1} = 25$ $h_{ef2} = 65^*$	95 295	4,4	100 300

*) for category E

Determination of maximum thickness of insulation h_D [mm] for LMX-8:

$$h_D = L_a - t_{tol} - h_{ef} \quad (L_a = \text{e.g. } 95; t_{tol} = 10)$$

e.g. $h_D = 95 - 10 - 25 = 60$

$h_{Dmax} = 60$

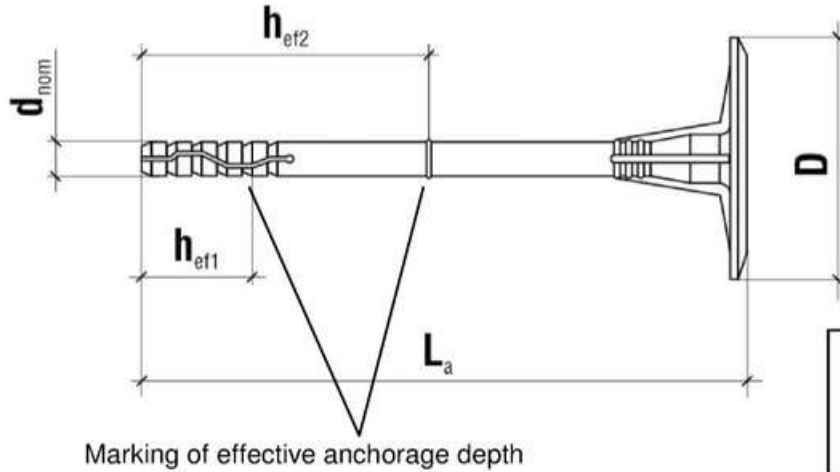
LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Product description

LMX-8 - marking and dimension of the anchor sleeve LIX
Expansion element TMX

Annex A 3

LGX-8



Marking:
Identifying Mark (Wkręć-Met)
Anchor sleeve – LIX
Anchor size – 8xLa

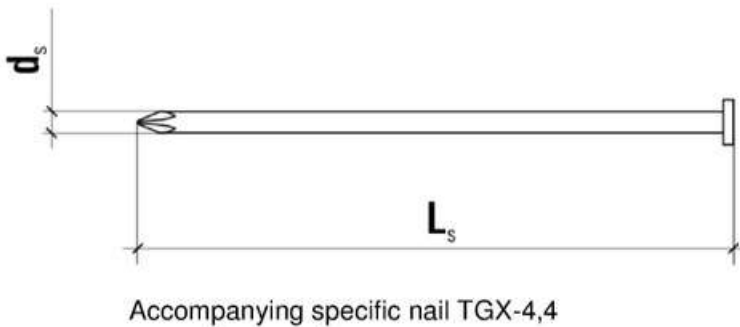


Table A3: Dimensions

Anchor Type	Colour	Anchor Sleeve			Specific nail	
		d_{nom} [mm]	h_{ef} [mm]	min L_a max L_a [mm]	d_s [mm]	min L_s max L_s [mm]
LGX-8	natural	8	$h_{ef1} = 25$ $h_{ef2} = 65^*$	95 295	4,4	100 300

*) for category E

Determination of maximum thickness of insulation h_D [mm] for LGX-8:

$$h_D = L_a - t_{tol} - h_{ef} \quad (L_a = \text{e.g. } 95; t_{tol} = 10)$$

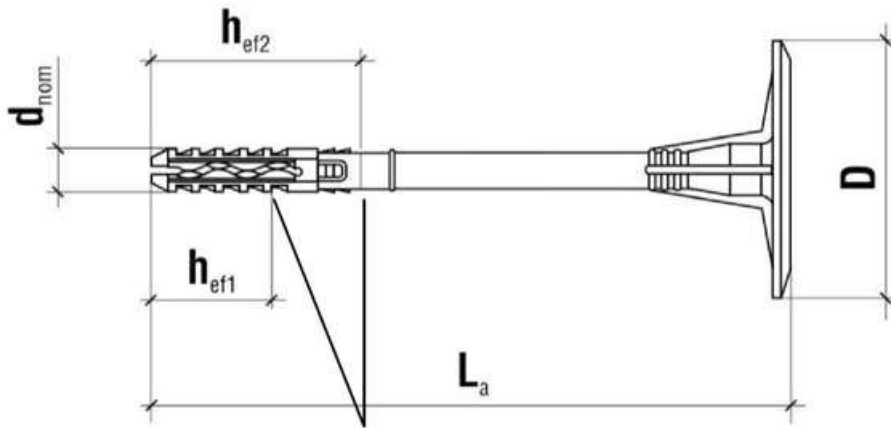
e.g. $h_D = 95 - 10 - 25 = 60$

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Product description
LGX-8 - marking and dimension of the anchor sleeve LIX
Expansion element TGX

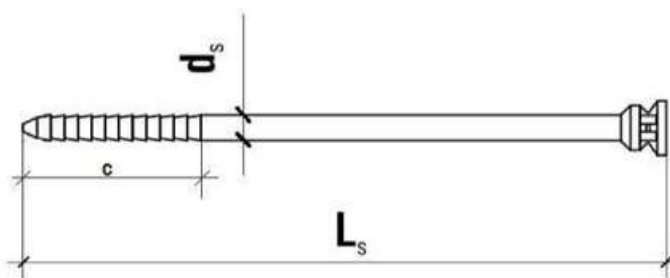
Annex A 4

LTX-10



Marking:
Identifying Mark (Wkręć-Met)
Anchor sleeve – LIX
Anchor size – 10xLa

Marking of effective anchorage depth



Accompanying specific nail TTX-5,5

Table A4: Dimensions

Anchor Type	Colour	Anchor Sleeve			Specific nail		
		d_{nom} [mm]	h_{ef} [mm]	min L_a max L_a [mm]	d_s [mm]	c [mm]	min L_s max L_s [mm]
LTX-10	natural	10	$h_{ef1} = 30$ $h_{ef2} = 50^*$	70 260	5,5	44	75 265

*) for category E

Determination of maximum thickness of insulation h_D [mm] for LTX-10:

$$h_D = L_a - t_{tol} - h_{ef} \quad (L_a = \text{e.g. } 70; t_{tol} = 10)$$

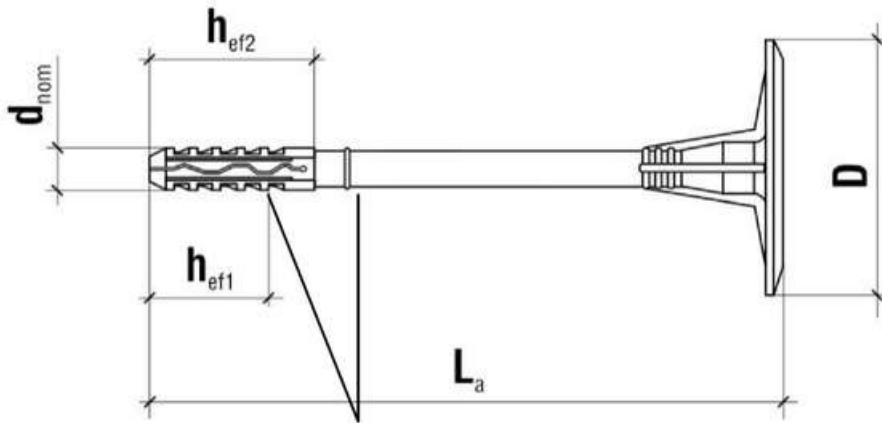
e.g. $h_D = 70 - 10 - 30$
 $h_{Dmax} = 30$

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Product description
LTX-10 - marking and dimension of the anchor sleeve LIX
Expansion element TTX

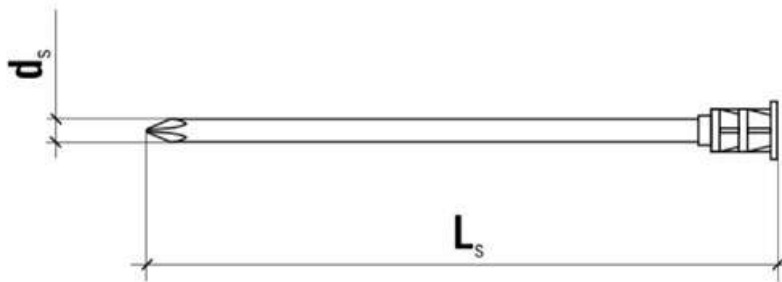
Annex A 5

LMX-10



Marking:
Identifying Mark (Wkręć-Met)
Anchor sleeve – LMX
Anchor size – 10xLa

Marking of effective anchorage depth



Accompanying specific nail TMX-4,4

Table A5: Dimensions

Anchor Type	Colour	Anchor Sleeve			Specific nail	
		d_{nom} [mm]	h_{ef} [mm]	min L_a max L_a [mm]	d_s [mm]	min L_s max L_s [mm]
LMX-10	natural	10	$h_{ef1} = 30$ $h_{ef2} = 50^*$	70 300	4,4	70 300

*) for category E

Determination of maximum thickness of insulation h_D [mm] for LMX-10:

$$h_D = L_a - t_{tol} - h_{ef} \quad (L_a = \text{e.g. } 70; t_{tol} = 10)$$

e.g. $h_D = 70 - 10 - 30$
 $h_{Dmax} = 30$

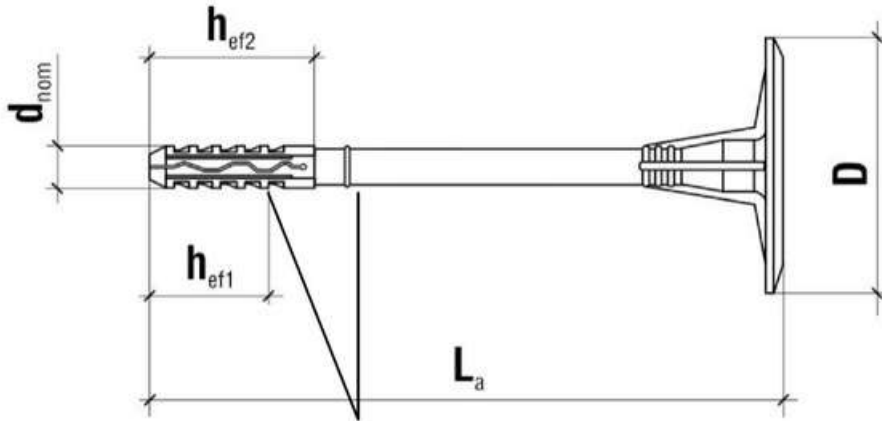
LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Product description

LMX-10 - marking and dimension of the anchor sleeve LMX
Expansion element TMX

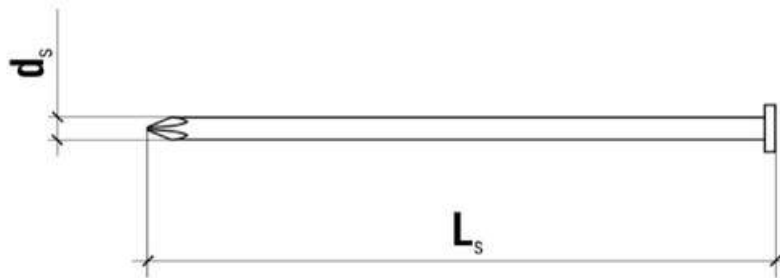
Annex A 6

LGX-10



Marking:
Identifying Mark (Wkręty-Met)
Anchor sleeve – LMX
Anchor size – 10xLa

Marking of effective anchorage depth



Accompanying specific nail TGX-4,4

Table A6: Dimensions

Anchor Type	Colour	Anchor Sleeve			Specific nail	
		d_{nom} [mm]	h_{ef} [mm]	min L_a max L_a [mm]	d_s [mm]	min L_s max L_s [mm]
LGX-10	natural	10	$h_{ef1} = 30$ $h_{ef2} = 50^*$	70 300	4,4	70 300

*) for category E

Determination of maximum thickness of insulation h_D [mm] for LGX-10:

$$h_D = L_a - t_{tol} - h_{ef} \quad (L_a = \text{e.g. } 70; t_{tol} = 10)$$

e.g. $h_D = 70 - 10 - 30$
 $h_{Dmax} = 30$

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Annex A 7

Product description

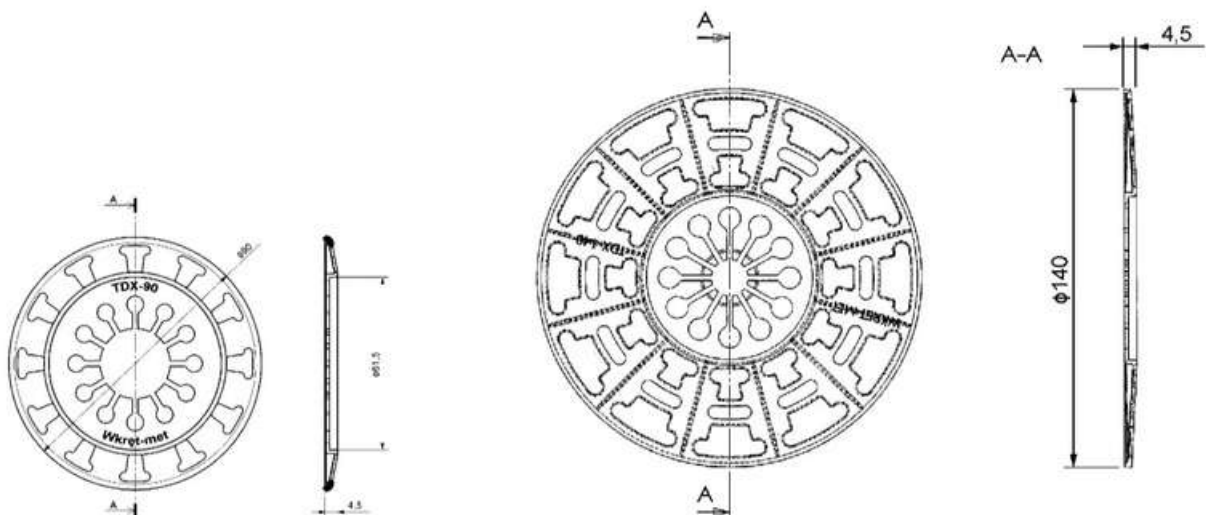
LGX-10 - marking and dimension of the anchor sleeve LMX
Expansion element TGX

Table A7: Materials

Name	Materials
Anchor sleeve	Polyethylene, colour: natural
Specific nail TTX	Polyamide GF, colour: black or natural
Specific nail TMX, TGX	Steel, electro galvanized $\geq 5 \mu\text{m}$ according to EN ISO 4042:2001, white passivated, $f_{yk} \geq 420 \text{ N/mm}^2$

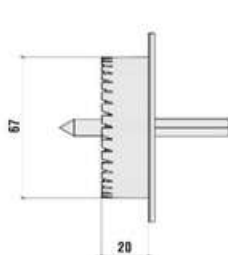
Table A8: Insulation discs, diameters and material

Plate type	Outer diameter [mm]	Material
TDX-P-90	90	Polyethylene, natural or grey
TDX-90	90	Polyamide +GF, natural or grey
TDX-P-140	140	Polyethylene, natural or grey
TDX-140	140	Polyamide + GF, natural or grey

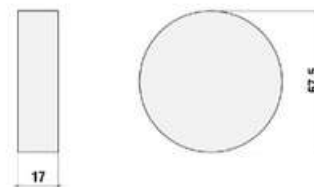


TDX-P-90/TDX-90

TDX-P-140/TDX-140



Special drill tool WK-FT for immersed installation



Insulation cover KS and KSG

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Product description

Materials,
Slip on plates with LTX-8 / LMX-8 / LGX-8 / LTX-10 / LMX-10 / LGX-10

Annex A 8

Specifications of intended use

Anchorage subject to:

- The anchor may only be used for transmission of wind suction loads and shall not be used for the transmission of dead loads of the thermal insulation composite system.

Base materials:

- Normal weight concrete (use category A) according to Annex C 1
- Solid masonry (use category B), according to Annex C 1
- Hollow or perforated masonry (use category C), according to Annex C 1
- Lightweight aggregate concrete (use category D), according to Annex C 1
- Autoclaved aerated concrete (use category E), according to Annex C 1
- For other base materials of the use categories A, B, C, D or E the characteristic resistance of the anchor may be determined by job site tests according to ETAG 014 Edition February 2011, Annex D.

Temperature Range:

- 0°C to +40°C (max. short term temperature +40°C and max. long term temperature +24°C)

Design:

- The anchorages are designed in accordance with the ETAG 014 Edition February 2011 under the responsibility of an engineer experienced in anchorages and masonry work.
- Verifiable calculation notes and drawings are prepared taking account of the loads to be anchored. The position of the anchor is indicated on the design drawings.
- Fasteners are only to be used for multiple fixings of thermal insulation composite systems.

Installation:

- Hole drilling by the drill modes according to Annex C 1
- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site.
- Installation temperature from 0°C to +40°C
- Exposure to UV due to solar radiation of the anchor not protected by rendering ≤ 6 weeks

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Intended use
Specifications

Annex B 1

Table B1: Installation parameters for LTX-8 / LMX-8 / LGX-8

		A B C D	E
Drill hole diameter	d_0 [mm] =	8	8
Cutting diameter of drill bit	d_{cut} [mm] ≤	8,45	8,45
Depth of drilled hole to deepest point	h_1 [mm] ≥	35	75
Effective anchorage depth	h_{ef} [mm] ≥	25	65

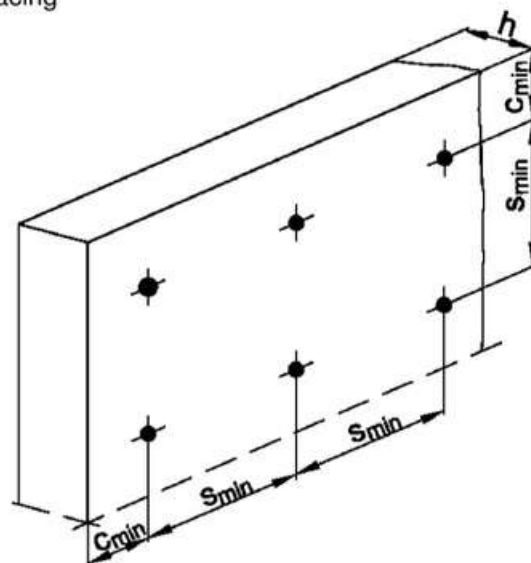
Table B2: Installation parameters for LTX-10 / LMX-10 / LGX-10

		A B C D	E
Drill hole diameter	d_0 [mm] =	10	10
Cutting diameter of drill bit	d_{cut} [mm] ≤	10,45	10,45
Depth of drilled hole to deepest point	h_1 [mm] ≥	40	60
Effective anchorage depth	h_{ef} [mm] ≥	30	50

Table B3: Anchor distances and dimensions of members

Minimum allowable spacing	$s_{min} \geq$ [mm]	100
Minimum allowable edge distance	$c_{min} \geq$ [mm]	100
Minimum thickness of member	$h \geq$ [mm]	100

Scheme of distance and spacing



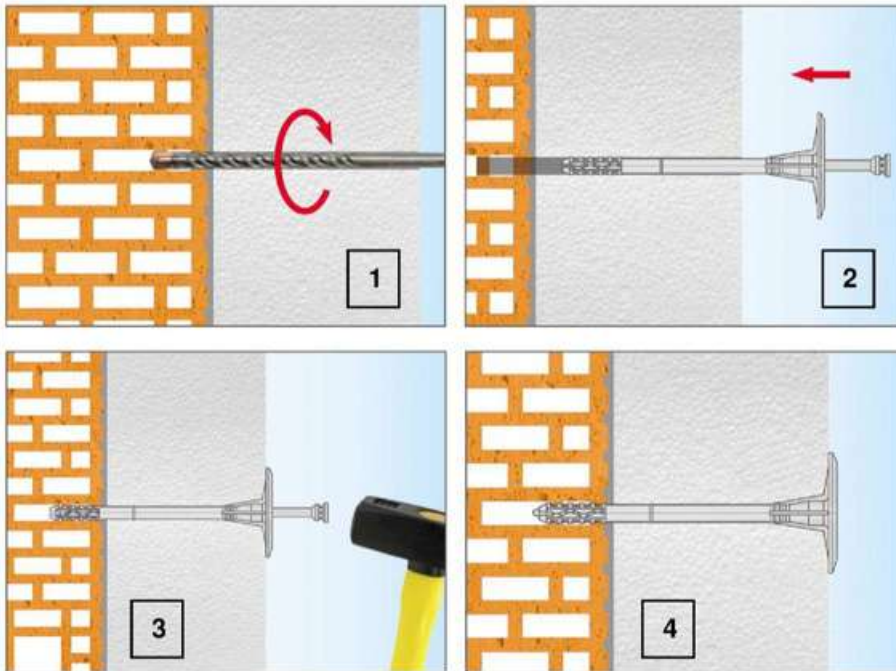
LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Intended use
Installation parameters,
Edge distances and spacing

Annex B 2

Installation instructions

surface mount



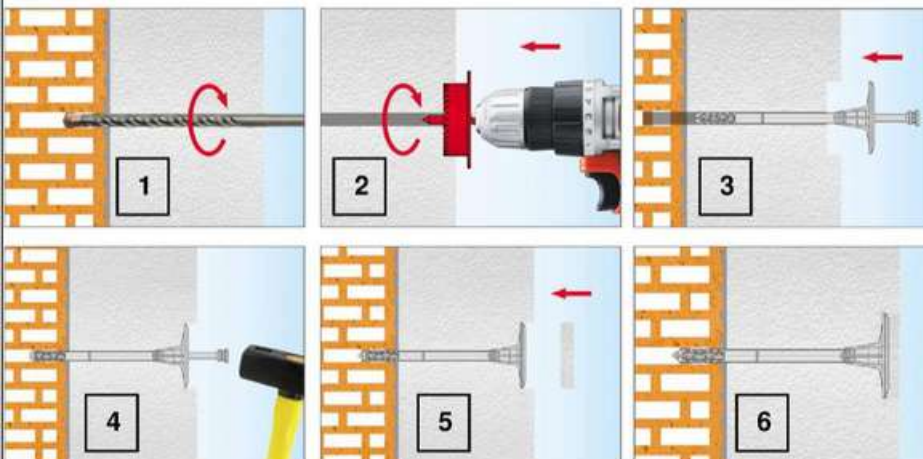
1) Drill the hole perpendicular to the substrate surface. Clean the drill hole.

2) Place the anchor into the drill hole. The bottom side of the plate must be flush with the ETICS.

3) Drive in the specific nail with the hammer.

4) Installed condition.

immersed mount



1) Drill the hole perpendicular to the substrate surface. Clean the drill hole.

2) Drill the recess for immersed installation with the special drilling tool WK-FT.

3) Place the anchor into the drill hole. The bottom side of the plate must be flush with the recess in the ETICS.

4) Drive in the specific nail with the hammer.

5) Insert the insulation cover.

6) Installed condition.

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Intended use

Installation instructions – surface mount, immersed mount

Annex B 3


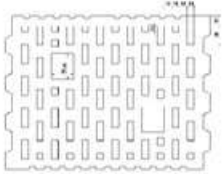

Table C1: Characteristic resistance to tension loads N_{Rk} in concrete and masonry for a single anchor in kN						
Anchor type					LTX-8	LMX-8 LGX-8
Base materials	Bulk density class ρ [kg/dm ³]	minimum compressive strength f_b [N/mm ²]	General remarks	Drill method	N_{Rk} [kN]	N_{Rk} [kN]
Concrete C12/15 (EN 206-1:2000)	$\geq 2,25$	≥ 30		hammer	0,5	0,5
Concrete C20/25 - C50/60 (EN 206-1:2000)	$\geq 2,30$	≥ 65		hammer	0,75	0,75
Clay bricks MZ e.g. according to EN 771-1:2011	$\geq 2,0$	≥ 20		hammer	0,75	0,75
Calcium silicate bricks KS e.g. according to EN 771-2:2011	$\geq 2,0$	≥ 20		hammer	0,75	0,75
Calcium silicate hollow block KSL e.g. according to EN 771-2:2011 	$\geq 1,6$	≥ 12	Vertically perforation more than 15 % and less than 50 %	hammer	0,75	0,75
Vertically perforated clay bricks HLZ e.g. according to EN 771-1:2011 	$\geq 1,2$	≥ 12	Vertically perforation more than 15 % and less than 50 %	rotary	0,6	0,6
Vertically perforated clay bricks porotherm 25 e.g. according to EN 771-1:2011 	$\geq 0,8$	≥ 10	Vertically perforation more than 15 %	rotary	0,4	0,4
Autoclaved concrete blocks AAC2 e.g. according to EN 771-4:2011	$\geq 0,35$	≥ 2		rotary	0,75	0,75
Autoclaved concrete blocks AAC7 e.g. according to EN 771-4:2011	$\geq 0,65$	$\geq 3,5$		rotary	0,9	0,9
Lightweight concrete blocks LAC e.g. according to EN 1520:2011-06 / EN 771-3:2011	$\geq 0,88$	≥ 5		rotary	0,6	0,75
LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10					Annex C 1	
Performances Characteristic resistance LTX-8, LMX-8, LGX-8						


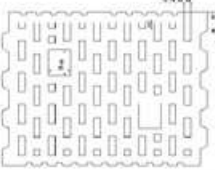
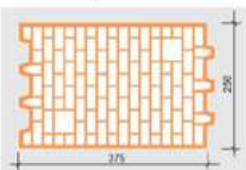
Table C2: Characteristic resistance to tension loads N_{Rk} in concrete and masonry for a single anchor						
in kN						
Anchor type					LTX-10	LMX-10 LGX-10
Base materials	Bulk density class ρ [kg/dm ³]	minimum compressive strength f_b [N/mm ²]	General remarks	Drill method	N_{Rk} [kN]	N_{Rk} [kN]
Concrete C12/15 (EN 206-1:2000)	$\geq 2,25$	≥ 30		hammer	0,5	0,75
Concrete C20/25 -C50/60 (EN 206-1:2000)	$\geq 2,30$	≥ 65		hammer	0,75	0,9
Clay bricks MZ e.g. according to EN 771-1:2011	$\geq 2,0$	≥ 20		hammer	0,75	0,9
Calcium silicate bricks KS e.g. according to EN 771-2:2011	$\geq 2,0$	≥ 20		hammer	0,6	0,9
Calcium silicate hollow block KSL e.g. according to EN 771-2:2011 	$\geq 1,6$	≥ 12	Vertically perforation more than 15 % and less than 50 %	hammer	0,6	0,9
Vertically perforated clay bricks HLZ e.g. according to EN 771-1:2011 	$\geq 1,2$	≥ 12	Vertically perforation more than 15 % and less than 50 %	rotary	0,6	0,9
Vertically perforated clay bricks porotherm 25 e.g. according to EN 771-1:2011) 	$\geq 0,8$	≥ 10	Vertically perforation more than 15 %	rotary	0,4	0,5
Autoclaved concrete blocks AAC2 e.g. according to EN 771-4:2011	$\geq 0,35$	≥ 2		rotary	0,5	0,75
Autoclaved concrete blocks AAC7 e.g. according to EN 771-4:2011	$\geq 0,65$	$\geq 3,5$		rotary	0,6	0,9
Lightweight concrete blocks LAC e.g. according to EN 1520:2011-06 / EN 771-3:2011	$\geq 0,88$	≥ 5		rotary	0,6	0,9
LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10					Annex C 2	
Performances Characteristic resistance LTX-10, LMX-10, LGX-10						

Table C3: Point thermal transmittance according EOTA Technical Report TR 025:2007-06

anchor type	insulation thickness	point thermal transmittance
	h_D [mm]	χ [W/K]
LTX-8 surface mount	60 - 160	0
LTX-8 immersed mount	80 - 160	0
LMX-8 surface mount	60 - 260	0,004
LMX-8 immersed mount	80 - 260	0,002
LGX-8 surface mount	60 - 260	0,006
LGX-8 immersed mount	80 - 260	0,003
LTX-10 surface mount	30 - 220	0,001
LTX-10 immersed mount	50 - 220	0
LMX-10 surface mount	30 - 260	0,004
LMX-10 immersed mount	50 - 260	0,002
LGX-10 surface mount	30 - 260	0,007
LGX-10 immersed mount	50 - 260	0,003

Table C4: Plate stiffness according EOTA Technical Report TR 026:2007-06

anchor type	diameter of the anchor plate	load resistance of the anchor plate	plate stiffness
	[mm]	[kN]	[kN/mm]
LTX-8/LMX-8/LGX-8	60	1,09	0,5
LTX-10/LMX-10/LGX-10	60	1,02	0,5

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10

Performances

Point thermal transmittance, plate stiffness

Annex C 3

Table C5: Displacements LTX-8 and LTX-10

Base materials (refer Table C1, C2)	Bulk density class ρ [kg/dm ³]	Minimum Compressive strength f_b [N/mm ²]	Tension load N [kN]		Displacements $\delta(N)$ [mm]	
			LTX-8	LTX-10	LTX-8	LTX-10
Concrete C20/25	≥ 2,25	≥ 30	0,17	0,17	1,5	1,4
Concrete C50/60	≥ 2,30	≥ 65	0,25	0,25	1,5	1,8
Clay bricks MZ	≥ 2,0	≥ 20	0,25	0,25	0,5	0,6
Calcium silicate bricks KS	≥ 2,0	≥ 20	0,25	0,2	0,8	1,1
Calcium silicate hollow block KSL	≥ 1,6	≥ 12	0,25	0,2	1,0	1,5
Vertically perforated clay bricks HLZ	≥ 1,2	≥ 12	0,2	0,2	1,2	1,4
Perforated clay bricks porotherm 25	≥ 0,8	≥ 10	0,13	0,13	0,6	0,5
Autoclaved concrete blocks AAC2	≥ 0,35	≥ 2	0,25	0,17	0,8	1,3
Autoclaved concrete blocks AAC7	≥ 0,65	≥ 3,5	0,3	0,2	1,3	1,8
Lightweight concrete blocks LAC	≥ 0,88	≥ 5	0,2	0,2	0,9	1,5

Table C6: Displacements LMX-8/LGX-8 and LMX-10/LGX-10

Base materials (refer Table C1, C2)	Bulk density class ρ [kg/dm ³]	Minimum Compressive strength f_b [N/mm ²]	Tension load N [kN]		Displacements $\delta(N)$ [mm]	
			LMX-8/ LGX-8	LMX-10/ LGX-10	LMX-8/ LGX-8	LMX-10/ LGX-10
Concrete C20/25	≥ 2,25	≥ 30	0,17	0,25	2,1	1,3
Concrete C50/60	≥ 2,30	≥ 65	0,25	0,3	2,4	1,5
Clay bricks MZ	≥ 2,0	≥ 20	0,25	0,3	2,0	0,8
Calcium silicate bricks KS	≥ 2,0	≥ 20	0,25	0,3	0,7	1,0
Calcium silicate hollow block KSL	≥ 1,6	≥ 12	0,25	0,3	1,0	1,3
Vertically perforated clay bricks HLZ	≥ 1,2	≥ 12	0,2	0,3	1,6	1,7
Perforated clay bricks porotherm 25	≥ 0,8	≥ 10	0,13	0,17	0,9	0,8
Autoclaved concrete blocks AAC2	≥ 0,35	≥ 2	0,25	0,25	2,7	2,4
Autoclaved concrete blocks AAC7	≥ 0,65	≥ 3,5	0,3	0,3	2,0	1,4
Lightweight concrete blocks LAC	≥ 0,88	≥ 5	0,25	0,3	1,0	1,0

LTX-8, LMX-8, LGX-8, LTX-10, LMX-10, LGX-10**Performances**
Displacements**Annex C 4**

Z50203.16

8.06.04-182/16



InSulation Shop:
LIMASSOL
Galinou 4 & Omonoias
T: 25 378 103 F: 25 313 176

Head office - Store House:
LARNAKA
Filoktiti 5, Aradippou
T: 24 102 585 F: 24 102 586

www.snsncpyrus.com
7000 70 35

InSulation Shop



ANGRO POLYMERIC PLASTER

SAFETY DATA SHEET

Pursuant to Regulation (EU) 2015/830, issue date: 14.04.2017, version number: 3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Substance or mixture name: "ANGRO" POLYMERIC PLASTER

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further important information available.

Use of the substance / mixture: For laying of internal and external walls and ceilings.

1.3 Details of the supplier of the safety data sheet

Manufacturer/supplier: ANGRO Ltd.

Sofia, 114 Europe Blvd.

+359 2 925 22 39

angro_bg@abv.bg

Additional information may be obtained from:

Phone: +359 2 925 22 39 - 8.00 until 17.30 during office hours

E-mail of the competent person responsible for the SDS: angro_bg@abv.bg

1.4 Emergency telephone number

+359 2 9154 409 National Toxicological Information Centre, Institute for Emergency Medicine
"N.I.Pirogov"

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Substance / mixture - Mixture

2.1.1. Classification according to Regulation 1272/2008

(CLP) Product not classified as hazardous.

2.2 Label elements

Labelling pursuant to Regulation (EC) 1272/2008 (CLP)

Precautionary statements (CLP)

P102: Keep out of reach of children.

P262: Avoid contact with eyes, skin or clothing

P301 + P310: If ingested, call a TOXICOLOGICAL CENTER/doctor immediately.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P273: Avoid release to the environment.

3.1 Substances

This product contains no health and environmental hazardous substances according to Regulation (EC) 1272/2008 (CLP) for the classification, packaging, labelling of hazardous chemicals and mixtures.

SECTION 4: First aid measures

4.1 Description of first aid measures

First aid in case of inhalation: Access to fresh air. Seek medical attention for complaints.

First aid in case of skin contact: Rinse the skin with plenty of water and soap.

First aid in case of eye contact: Rinse eyes thoroughly with plenty of water for 15 minutes with eyelid open. Remove contact lenses. Seek immediate medical attention.

First aid in case of ingestion: Do NOT induce vomiting. Rinse mouth with water. If you feel unwell, call a toxicology center or doctor. Seek immediate medical attention by displaying the package or label.

Protective equipment at work:

- Eye baths
- Protective face masks

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, dry powder, foam, carbon dioxide. Larger fires are extinguished with water spray or alkali resistant foam.

5.2 Special hazards arising from the substance or mixture

Acrylate monomers can be separated during thermal decomposition.

5.3 Advice for firefighters

Wear insulating gas mask and firefighter protective clothing. The preparation is not fire hazardous. After water evaporation, the dry residue can feed the fire.

In the event of a fire in the neighbourhood, cool with a cold water jet to avoid pressure build up and ignition of the plastic packaging.

SECTION 6: Accidental release, protective equipment and emergency procedures

Observe the safety recommendations at work (refer to p.8). Avoid contact with skin and eyes. Wear suitable protective equipment. Do not eat, drink or smoke until cleaning is complete.

6.2 Environmental precautions

Do not allow to penetrate into the environment due to alkaline reaction.

6.3 Methods and material for containment and cleaning up

Small quantities: Collect with inert materials that absorb liquid / sand, soil, etc. absorbents /, scrape and dispose of in a special container. Clean the contaminated area with water. Large quantities: Pump spilled product and clean as indicated above.

Residues: Wash with water

Contaminated water: Collect for proper disposal. Do not discharge into drains without preliminary flocculation and filtration.

6.4 References to other sections

P.8 and P.13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Tech. Precautions: General ventilation is sufficient.

Precautionary measures for aerosol and dust formation: Observe the usual precautions for handling the chemical/mixture.

Other precautions: Do not take food or drink. The product may acquire the odor of bacteria after long-term storage.

7.2 Conditions for safe storage, including any incompatibilities

Store in closed and dry storage at 1-49 ° C. in tightly sealed original packages.

8.1 Control parameters

Legal grounds: Ordinance No. 13 (30.12.2003) on the Protection of Employees against Risks Related to Exposure to Chemicals at Work (prom. SG, No. 8/2004, amended in SG, No. 71/2006)

8.2 Exposure controls

Appropriate engineering controls: Storage and use sites should be equipped with eyewash.

Hand protection: Waterproof gloves from neoprene

Eye protection: Protective goggles

kin and body protection: Wear appropriate protective clothing

Respiratory protection: no special protection is required. If misted, wear a half-mask respirator for air purification.

Hygiene measures: Wash hands before breaks and after work. Due to the alkaline reaction of the mixture, it is recommended to wear protective gloves and work clothing. Do not eat or drink or smoke during work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: viscous fluid

Odour: Specific

pH value: 6,5

3

Relative density: 1700 kg/m

Melting point/freezing point: 0°C

Initial boiling point and boiling range: 100°C under normal atmospheric conditions

Flash point: Non-flammable

Evaporation rate: Not applicable

Flammability /solid, gas/: Not applicable

Lower/upper flammability or explosive limits: Not applicable

Vapour pressure at 20°C: Not applicable

Vapour density: <1,0 water

Density at 20°C: Not applicable

Water solubility: Soluble

Partition coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: Not applicable

Oxidising properties: Not applicable

ANGRO POLYMERIC PLASTER

SAFETY DATA SHEET

Pursuant to Regulation (EU) 2015/830, issue date: 14.04.2017, version number: 3

SECTION 10: Stability and reactivity

10.1 Reactivity

No further information available.

10.2 Chemical stability

No further information available.

10.3 Possibility of hazardous reactions

No hazardous reactions are known.

10.4 Conditions to avoid

May coagulate if frozen (0 ° C). Avoid temperatures above 170 ° C as thermal decomposition of the product begins.

10.5 Incompatible materials

No known materials that are incompatible with this product and lead to the formation of hazardous products.

10.6 Hazardous decomposition products

Acrylate monomers can be separated during thermal decomposition.

11.1 Information on toxicological effects

Acute toxicity (oral): Acrylate copolymer emulsion. LD50 rat > 5000mg/kg.

Acute toxicity (dermal): LD50 rabbit > 5000mg/kg

Inhalation: Unlikely to be hazardous if inhaled.

Ingestion: Unlikely to be hazardous if ingested.

Skin contact: Prolonged and intense skin contact can cause irritation. Bonding of the skin product may cause irritation on drying.

Eye contact: May cause slight temporary eye irritation.

Sensitisation to the respiratory tract or skin: Not classified

12.1 Toxicity:

No further information available.

12.2 Persistence and degradability:

- **biodegradation ability** - no further information available
- **physico-chemical displacement** - no further information available

12.3. Bioaccumulative potential:

No further information available.

12.4. Mobility in soil:

No further information available.

12.5. Results of PBT and vPvB assessment:

No further information available.

12.6. Other adverse effects:

do not allow undiluted product or large quantities of it to enter the environment, water sources and / or drainage without prior treatment. According to the current level of knowledge, no negative environmental impacts should be expected.

ANGRO POLYMERIC PLASTER

SAFETY DATA SHEET

Pursuant to Regulation (EU) 2015/830, issue date: 14.04.2017, version number: 3

SECTION 13: Disposal considerations

Any residues of the product, waste from its application and the corresponding packaging in which it was stored should be disposed of in accordance with local regulations for the treatment of special and hazardous waste.

13.1 Waste treatment methods

Classification of waste from the product and packaging in accordance with the Ordinance on the classification of waste (promulgated SG, issue 44 of 25.05.2004)

In compliance with local regulations, in solidified state in smaller quantities, the mixture can be disposed of with domestic waste, otherwise it is treated as mixed construction waste.

Waste code according to Ordinance No 2 of 23.07.2014 on the Classification of waste:

17 09 04 – Mixed construction waste that is free from hazardous substances

Empty packaging, once optimally emptied, can be recycled after proper cleaning.

14.1 UN number – ADR, ADN, IMDG, IATA, RID: Not applicable

14.2 UN proper shipping name – ADR, ADN, IMDG, IATA, RID: Not applicable

14.3 Transport hazard class(es) – ADR, ADN, IMDG, IATA, RID: Not applicable

14.4 Packing group – ADR, ADN, IMDG, IATA, RID: Not applicable

14.5 Environmental hazards – ADR, ADN, IMDG, IATA, RID: Not applicable

14.6 Special precautions for user: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

- The product does not contain persistent organic pollutants according to Regulation /EC/ 850/2004.

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and the related international transport rules.

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

- Act on Protection against the Harmful Impact of Chemical Substances and Mixtures (SG, No. 95, 24.11.2006/.

- Ordinance on the Procedure and Methods for Classification, Packaging and Labelling of Chemical Substances and Mixtures.

- Ordinance No. 13 on the Protection of Employees against Risks Related to Exposure to Chemicals at Work.

- Ordinance No. 14 on the Norms of the Permissible Limit Concentrations of Harmful Substances in the Atmospheric Air of Settlements.

- European Agreement concerning the International Carriage of Dangerous Goods by Road, ADR.



ANGRO POLYMERIC PLASTER

Pursuant to Regulation (EU) 2015/830, issue date: 14.04.2017, version number: 3

- Regulation concerning the International Carriage of Dangerous Goods by Rail, RID

Data are based on our current level of knowledge, but they do not constitute a warranty about the product properties and do not create binding contractual relations.



ANGRO GROUND FOR PLASTER

SAFETY DATA SHEET

Pursuant to Regulation (EU) 2015/830, issue date: 14.04.2017, version number: 3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Substance or mixture name: "ANGRO GROUND FOR PLASTER"

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further important information available.

Use of the substance / mixture: Used for priming before application of polymeric, silicone plasters, light mineral plasters.

1.3 Details of the supplier of the safety data sheet

Manufacturer/supplier: ANGRO Ltd.

Sofia, 114 Europe Blvd.

+359 2 925 22 39

angro_bg@abv.bg

Additional information may be obtained from:

Phone: +359 2 925 22 39 - 8.00 until 17.30 during office hours

E-mail of the competent person responsible for the SDS: angro_bg@abv.bg

1.4 Emergency telephone number

+359 2 9154 409 National Toxicological Information Centre, Institute for Emergency Medicine
"N.I.Pirogov"

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Not classified

2.2 Label elements

Labelling pursuant to Regulation (EC) 1272/2008 (CLP)

Precautionary statements (CLP)

Hazard Statements (H – codes): None

Precautionary statements (P – codes):

P101 - If medical attention is needed, carry the package or label of the product

P102: Keep out of reach of children.

P262 - Avoid contact with eyes, skin or clothing

P301+P310 – IF INGESTED: Immediately call a POISON CENTER or doctor/physician.

P304+P312: IF INHALED: If you feel unwell, call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Seek medical advice/assistance.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P410 - Keep away from direct sunlight.

P401 - Do not store above + 5 ° C.

2.3 Other hazards

No further information available.



ANGRO GROUND FOR PLASTER

SAFETY DATA SHEET

Pursuant to Regulation (EU) 2015/830, issue date: 14.04.2017, version number: 3

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

This product contains no health or environmental hazardous substances according to Regulation (EC) No 1272/2008 for the classification, packaging, labelling of dangerous chemicals and mixtures.

SECTION 4: First aid measures

4.1 Description of first aid measures

First aid in case of inhalation: Move the exposed individual to fresh air and leave them in a position facilitating breathing.

First aid in case of skin contact: Wash skin with plenty of water.

First aid in case of eye contact: Rinse eyes with water as a precautionary measure.

First aid in case of ingestion: If you feel unwell, call a toxicology center or doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further information available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

ANGRO GROUND FOR PLASTER is non-combustible and non-explosive.

5.1 Extinguishing media

Suitable extinguishing media: spray water, dry powder, foam.

5.2 Special hazards arising from the substance or mixture

Toxic vapours may be released

5.3 Advice for firefighters

Fire-fighting protection: suitable protective equipment, self-contained and self-contained breathing apparatus. Full body protection.

6.1 Personal precautions, protective equipment and emergency procedures

Not necessary

6.2 Environmental precautions

Do not allow to enter the environment.

6.3 Methods and material for containment and cleaning up

Collect the spilled liquid with absorbent material and dispose of residues in a designated place.

6.4 References to other sections



ANGRO GROUND FOR PLASTER

SAFETY DATA SHEET

Pursuant to Regulation (EU) 2015/830, issue date: 14.04.2017, version number: 3

For information on safe handling, see Chapter 7.

See Chapter 8 for information on personal protective equipment.

See Chapter 13 for disposal information.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation at work. Wear personal protective equipment.

Do not eat, drink or smoke when using the product. Always wash your hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place and keep cool - at temperatures from +50C to +400C.

7.3 Specific end use(s)

No further information available

SECTION 8 Control parameters

No further information available

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation at work.

Hand protection: Protective gloves

Eye protection: Protective goggles

Skin and body protection: Wear appropriate protective clothing

Respiratory protection: In case of insufficient ventilation, use an appropriate breathing apparatus.

Environmental exposure controls: Avoid release to the environment.

SECTION 9 Information on basic physical and chemical properties

Appearance: liquid

Colour: white

Odour: specific

pH value: 7,4

Odour limit: no available information

Relative evaporation rate: no available information

Melting point: 0°C

Freezing point: not: 0°C

Initial boiling point and boiling range: 100°C

Flash point: no available information

Auto-ignition temperature: no available information

Decomposition temperature: no available information

Flammability /solid, gas/: Not applicable

Vapour pressure: no available information

Relative density: no available information

Density: 1,62 g/cm³

Vapour density: <1,0 water

Water solubility: soluble

Viscosity, kinematic: no available information



ANGRO GROUND FOR PLASTER

SAFETY DATA SHEET

Pursuant to Regulation (EU) 2015/830, issue date: 14.04.2017, version number: 3

Viscosity, dynamic: no available information

Explosive properties: no available information

Oxidising properties: no available information

Lower/upper flammability or explosive limits: no available information

10.1 Reactivity

The product is non-reactive under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are known.

10.4 Conditions to avoid

No recommended conditions

10.5 Incompatible materials

No further information available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

11.1 Information on toxicological effects

Acute toxicity (oral): Not classified

Corrosion (skin irritation): Not classified

Eye irritation: Not classified

Sensitisation to the respiratory tract or skin: Not classified

Aspiration hazard: Not classified

12.1 Toxicity: The product is not considered to be harmful to aquatic organisms.

12.2 Persistence and degradability: No further information available

12.3. Bioaccumulative potential: No further information available

12.4. Mobility in soil: No further information available

12.5. Results of PBT and vPvB assessment: No further information available

12.6. Other adverse effects: No further information available

13.1 Waste treatment methods

Dispose of in accordance with the sorting instructions of the licensed waste disposal service.

Waste code according to Ordinance No 2 of 23.07.2014 on the Classification of waste:



ANGRO GROUND FOR PLASTER

SAFETY DATA SHEET

Pursuant to Regulation (EU) 2015/830, issue date: 14.04.2017, version number: 3

08 01 20 - aqueous suspensions of paints other than those mentioned in 08 01 19

Code packaging waste:

15 01 02 - plastic packaging.

SECTION 14: Transport information

14.1 UN number – ADR, ADN, IMDG, IATA, RID: Not applicable

14.2 UN proper shipping name – ADR, ADN, IMDG, IATA, RID: Not applicable

14.3 Transport hazard class(es) – ADR, ADN, IMDG, IATA, RID: Not applicable

14.4 Packing group – ADR, ADN, IMDG, IATA, RID: Not applicable

14.5 Environmental hazards – ADR, ADN, IMDG, IATA, RID: Not applicable

14.6 Special precautions for user: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory information

15.1 Substance or mixture specific safety, health and environmental regulations or legislation.

Labeling in accordance with Regulation (EC) No 1272/2008 – CLP

The preparation is classified and labeled according to the regulation on classification, labeling and packaging [CLP]

Hazard pictogram - No longer required

Signal word - No longer required

Hazardous Labeling Components - No longer required

Hazard statements (H codes): None.

Precautionary statements (CLP)

Precautionary statements (P – codes):

P101 - If medical attention is needed, carry the package or label of the product

P102: Keep out of reach of children.

P262 - Avoid contact with eyes, skin or clothing

P301+P310 – IF INGESTED: Immediately call a POISON CENTER or doctor/physician.

P304+P312: IF INHALED: If you feel unwell, call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Seek medical advice/assistance.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P410 - Keep away from direct sunlight.

P401 - Do not store above + 5 ° C.

15.2 Chemical or mixture safety assessment: A chemical safety assessment has not been carried out

properties and do not create binding contractual relations.