
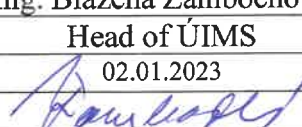

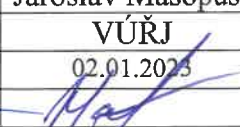


GUARANTEE CONDITIONS FOR COATED SHEETMETAL
Intended for "Comax" roofing material

DOCUMENT No.: OS - Q - 007

MTC	Created	Verified	Approved	Released
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Date	01.01.2023	02.01.2023	02.01.2023	02.01.2023
Signature				

Is subject to change proceedings:

For information only:

Subject of guarantee

This guarantee is valid for the metal sheets and strips with organic coatings, applied by the "Coil coating" technology. The substrates used by company METAL TRADE COMAX, a.s. for the "Coil coating" technology are aluminium and aluminium alloys, as well as the zinc-coated steel with the minimum layer Z275, ZM120 or AZ 150 g/m² for the roofing materials as well as for the external cladding of buildings. In conformance with the conditions as mentioned below, the company METAL TRADE COMAX, a. s. guarantees, that no rusting through of the substrate metal will occur, the coating layer will keep both the protective and aesthetical properties (= no peeling-off of the coating layer), the ageing will be uniform in the areas being exposed to the same weather conditions under the conditions as mentioned below and depending on the used coating system and structural position of the use, and that no peeling-off of the coating layer in the distance more than 50 mm from the shear edge will not occur.

Guarantee conditions:

This guarantee covers the hot coated metal sheets used in accordance with "Základní přehled použití nátěrového systému" (*essential overview of the use of coating system*), both in interior and exterior, as the roofing materials and external cladding, for the buildings exposed by the common conditions of Central Europe, both in urban and country environment, or in normal industrial environment.

This guarantee is only valid when the following conditions are complied with:

1. The material is processed or used at least within 3 (three) months after delivery from our company.
2. The inclinations of roof or other surface with metal sheets (without lateral joints for the roofing materials are as follows: Comax Falc at least 4°; Comax Klik 25 at least 9° standard and 5-8° ** (based on of specified conditions) ; Comax Klik 38 at least 14°; Comax Taška Maxi at least 14°; Comax Trapéz 35/207,40/183,50/250 at least 8°; Comax Trapéz 18/136 at least 10°; Comax Alukryt 444 a 888 at least 15°; Comax vlnka 27/115 at least 15°.
For the roofs with laterally divided roofing materials the inclinations are as follows: Comax Alukryt 444 at least 30° with overlapping at least 100 mm; Comax Alukryt 888 at least 15° with overlapping at least 400 mm; Comax Klik 25 at least 15° with overlapping at least 400 mm; Comax Klik 38 at least 20° with overlapping at least 400 mm, Comax Trapéz 35/207,40/183,50/250 and Comax Trapéz 18/136 at least 14° with overlapping 400 mm, Comax Vlnka 27/115 at least 20° with overlapping 400 mm or at least 30° with overlapping 200 mm for areas with lateral joints. For Falc 25: when the inclination is 4 to 10° the gradient drop with height at least 60 mm is used; for inclination of 10 to 30° the simple horizontal fold with an extra fold is used, and for the inclination more than 30° the simple horizontal fold is used. For Comax taška Mini and Maxi the inclination is at least 20°. For Comax BOCO 330 the inclination is at least 22°.
3. For the machine shaping, the temperature of metal sheets is not below 0 °C; for the manual shaping, the temperature is at least +5 °C. During processing, washing, repairing, etc. the temperature of metal sheets will not exceed +60 °C.
4. For shaping: neither the angle nor the diameter of the bending will exceed the allowed parameters; the mechanical values of the basic material and coating system will not be exceeded; the bending of metal sheet will not be sharp or repeated. The allowed bends must not exceed 2T (see Annex No. 1) for all roofing materials - excluding Comax falc, where the bending parameter of 0,5T is allowed.
5. The metal sheet/strip or its surface is not damaged, neither mechanically nor chemically. The appropriate fitter must repair every damage caused during processing.
6. The water runs freely from all surfaces - there are no retainment (even local and sporadic).
7. The metal sheet/strips are not stored or used in contact with wet or corrosive materials. The storage environment without condensation.
8. Both installation and maintenance must be performed in a professional manner, using the well-known and verified procedures.

9. The collected dirt or deposits as well as the areas being protected against the effects of rain must be washed regularly.
10. Any contact with wet concrete, wet wood, wet soil or other wet or damp surfaces must be prevented from happening. The structural arrangement must guarantee, that the water running from the above-mentioned materials cannot reach the surface of metal sheets or other non-compatible surfaces.
11. If the protective film was removed immediately after assembling, at the temperature at least 10 - 35 °C.
12. All necessary accessories for the relevant roof are purchased together - connection accessories, shaped pieces, etc.

Table of the guarantee periods - preservation of the protective function of coating layer and permissible changes of the appearance:

Coating system	Thickness	Country	Industrial	ΔE	Period
PES HD	20 – 25 μm	10 (years)	10 (years)	5	5 (years)
HD PES text	25 – 30 μm	10 (years)	10 (years)	5	5 (years)
PES HD Wood decor	26 – 39 μm	10 (years)	10 (years)	5	5 (years)
PES HD text.emb	25 – 30 μm	8 (years)	8 (years)	5	5 (years)
PES SHD 35	35 μm	12 (years)	12 (years)	5	5 (years)
PVDF emb	28 – 37 μm	12 (years)	10 (years)	5	5 (years)
PVDF	28 – 37 μm	15 (years)	15 (years)	5	8 (years)
PUR PA	45 - 55 μm	20 (years)	15 (years)	5	10 (years)

ΔE - according EN 13523-3

For metallic tones, the thickness may be smaller by approximately 5 μm

Table of functionality and accompanying guarantee period

Name of roofing	Material used HDGS	Surface finish type	Thick-ness of coating	Func-tional-ity	Amortiza-tion (≥ 2 years)	Amortiza-tion (< 2 years)
Comax Taška mini	HDGS min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax Taška mini	HDGS min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax Taška mini	HDGS min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax Taška mini	HDGS min. 0,5 mm	PES HD text.emb	25 - 30 μm	15 (years)	No amorti-sation	7,69%
Comax Taška mini	HDGS min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti-sation	2.63%
Comax Taška maxi	HDGS min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax Taška maxi	HDGS min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax Taška maxi	HDGS min. 0,5 mm	PES HD text.emb	25 - 30 μm	15 (years)	No amorti-sation	7,69%
Comax Taška maxi	HDGS min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti-sation	2,63%

Name of roofing	Material used HDGS	Surface finish type	Thick-ness of coating	Func-tional-ity	Amortiza-tion (≥ 2 years)	Amortiza-tion (< 2 years)
Comax Trapéz 18/136,35/207,40/183, 50/250	HDGS min. 0,5 mm	Not coated*	X	2 years	1st year - 40 % 2nd year - 60 %	-
Comax Trapéz 18/136,35/207,40/183, 50/250	AZ min. 0,5 mm	Not coated*	X	2 years	1st year - 40 % 2nd year - 60 %	-
Comax Trapéz 18/136,35/207,40/183, 50/250	HDGS min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti- sation	5,56%
Comax Trapéz 18/136,35/207,40/183, 50/250	HDGS min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti- sation	5,56%
Comax Trapéz 18/136,35/207,40/183, 50/250	HDGS min. 0,5 mm	PES HD text.emb	25 - 30 μm	15 (years)	No amorti- sation	7,69%
Comax Trapéz 18/136,35/207,40/183, 50/250	HDGS min. 0,5 mm	PVDF	28 - 37 μm	30 (years)	No amorti- sation	3,57%
Comax Trapéz 18/136,35/207,40/183, 50/250	HDGS min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti- sation	2,63%
Comax Alukryt 444	HDGS min. 0,5 mm	Not coated*	X	2 years	1st year - 40 % 2nd year - 60 %	-
Comax Alukryt 444	HDGS min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti- sation	5,56%
Comax Alukryt 444	HDGS min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti- sation	5,56%
Comax Alukryt 444	HDGS min. 0,5 mm	PVDF	28 - 25 μm	30 (years)	No amorti- sation	3,57%
Comax Alukryt 444	HDGS min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti- sation	2,63%
Comax Alukryt 888	HDGS min. 0,5 mm	Not coated*	X	2 years	1st year - 40 % 2nd year - 60 %	-
Comax Alukryt 888	HDGS min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti- sation	5,56%
Comax Alukryt 888	HDGS min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti- sation	5,56%
Comax Alukryt 888	HDGS min. 0,5 mm	PVDF	28 - 25 μm	30 (years)	No amorti- sation	3,57%
Comax Alukryt 888	HDGS min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti- sation	2,63%

Name of roofing	Material used HDGS	Surface finish type	Thick-ness of coating	Func-tional-ity	Amortiza-tion (≥ 2 years)	Amortiza-tion (< 2 years)
Comax Vlnka 27/115	HDGS min. 0,5 mm	Not coated*	X	2 years	1st year - 40 % 2nd year - 60 %	-
Comax Vlnka 27/115	AZ min. 0,5 mm	Not coated*	X	2 years	1st year - 40 % 2nd year - 60 %	-
Comax Vlnka 27/115	HDGS min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax Vlnka 27/115	HDGS min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax Vlnka 27/115	HDGS min. 0,5 mm	PES HD text.emb	25 - 30 μm	15 (years)	No amorti-sation	7,69%
Comax Vlnka 27/115	HDGS min. 0,5 mm	PVDF	28 - 25 μm	30 (years)	No amorti-sation	3,57%
Comax Vlnka 27/115	HDGS min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti-sation	2,63%
Comax Falc 25	HDGS DX52-53 min. 0,5 mm	Not coated*	X	2 years	1st year - 40 % 2nd year - 60 %	-
Comax Falc 25	HDGS DX52-53 min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax Falc 25	HDGS DX52-53 min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax Falc 25	HDGS DX52-53 min. 0,5 mm	PVDF	28 - 25 μm	30 (years)	No amorti-sation	3,57%
Comax Falc 25	HDGS DX52-53 min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti-sation	2,63%
Comax Falc svitek	HDGS DX52-53 min. 0,5 mm	Not coated*	X	2 years	1st year - 40 % 2nd year - 60 %	-
Comax Falc svitek	HDGS DX52-53 min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax Falc svitek	HDGS DX52-53 min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax Falc svitek	HDGS DX52-53 min. 0,5 mm	PVDF	28 - 25 μm	30 (years)	No amorti-sation	3,57%
Comax Falc svitek	HDGS DX52-53 min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti-sation	2,63%
Comax Klik 25	HDGS DX52-53 min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax Klik 25	HDGS DX52-53 min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax Klik 25	HDGS DX52-53 min. 0,5 mm	PES HD text.emb	25 - 30 μm	15 (years)	No amorti-sation	7,69%

Name of roofing	Material used HDGS	Surface finish type	Thick-ness of coating	Func-tional-ity	Amortiza-tion (≥ 2 years)	Amortiza-tion (< 2 years)
Comax Klik 25	HDGS DX52-53 min. 0,5 mm	PVDF	28 - 25 μm	30 (years)	No amorti-sation	3,57%
Comax Klik 25	HDGS DX52-53 min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti-sation	2,63%
Comax Klik 38	HDGS DX52-53 min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax Klik 38	HDGS DX52-53 min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax Klik 38	HDGS DX52-53 min. 0,5 mm	PES HD text. emb	25 - 30 μm	15 (years)	No amorti-sation	7,69%
Comax Klik 38	HDGS DX52-53 min. 0,5 mm	PVDF	28 - 25 μm	30 (years)	No amorti-sation	3,57%
Comax Klik 38	HDGS DX52-53 min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti-sation	2,63%
Comax BOCO 330	HDGS DX52-53 min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax facade panel	HDGS min. 0,5 mm	Not coated*	X	2 years	1st year - 40 % 2nd year - 60 %	-
Comax facade panel	HDGS min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax facade panel	HDGS min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax facade panel	HDGS min. 0,5 mm	PES HD text.emb	25 - 30 μm	15 (years)	No amorti-sation	7,69%
Comax facade panel	HDGS min. 0,5 mm	PVDF	28 - 25 μm	30 (years)	No amorti-sation	3,57%
Comax facade panel	HDGS min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti-sation	2,63%
Comax ridge tile, rounded	HDGS min. 0,5 mm	PES HD	20 - 25 μm	20 (years)	No amorti-sation	5,56%
Comax ridge tile, rounded	HDGS min. 0,5 mm	PES HD text.	25 - 30 μm	20 (years)	No amorti-sation	5,56%
Comax ridge tile, rounded	HDGS min. 0,5 mm	PUR PA	45 - 55 μm	40 (years)	No amorti-sation	2,63%

Name of roofing	Material used Al	Surface finish type	Thick-ness of coating	Func-tional-ity	Amortiza-tion (≥ 5 years)	Amortiza-tion (< 5 years)
Comax Taška mini	AlMn0,5Mg0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Taška mini	AlMn0,5Mg0,5 min. 0,6 mm	PES HD	20 - 25 μm	50 (years)	No amorti-sation	2,22%
Comax Taška mini	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.	25 - 30 μm	50 (years)	No amorti-sation	2,22%

Name of roofing	Material used Al	Surface finish type	Thick- ness of coating	Func- tional- ity	Amortiza- tion (≥ 5 years)	Amortiza- tion (< 5 years)
Comax Taška mini	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.em b	25 - 30 µm	45 (years)	No amorti- sation	2,50%
Comax Taška mini	AlMn0,5Mg0,5 min. 0,6 mm	PVDF	28 - 25 µm	55 (years)	No amorti- sation	2,02%
Comax Taška mini	AlMn0,5Mg0,5 min. 0,6 mm	PUR PA	45 - 55 µm	60 (years)	No amorti- sation	1,82%
Comax Taška maxi	AlMn0,5Mg0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Taška maxi	AlMn0,5Mg0,5 min. 0,6 mm	PES HD	20 - 25 µm	50 (years)	No amorti- sation	2,22%
Comax Taška maxi	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.	25 - 30 µm	50 (years)	No amorti- sation	2,22%
Comax Taška maxi	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.em b	25 - 30 µm	45 (years)	No amorti- sation	2,50%
Comax Taška maxi	AlMn0,5Mg0,5 min. 0,6 mm	PVDF	28 - 25 µm	55 (years)	No amorti- sation	2,02%
Comax Taška maxi	AlMn0,5Mg0,5 min. 0,6 mm	PUR PA	45 - 55 µm	60 (years)	No amorti- sation	1,82%
Comax Trapéz 18/136,35/207,40/18 3,50/250	AlMn0,5Mg0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Trapéz 18/136,35/207,40/18 3,50/250	AlMn0,5Mg0,5 min. 0,6 mm	PES HD	20 - 25 µm	50 (years)	No amorti- sation	2,22%
Comax Trapéz 18/136,35/207,40/18 3,50/250	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.	25 - 30 µm	50 (years)	No amorti- sation	2,22%
Comax Trapéz 18/136,35/207,40/18 3,50/250	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.em b	25 - 30 µm	45 (years)	No amorti- sation	2,50%
Comax Trapéz 18/136,35/207,40/18 3,50/250	AlMn0,5Mg0,5 min. 0,6 mm	PVDF	28 - 25 µm	55 (years)	No amorti- sation	2,02%
Comax Trapéz 18/136,35/207,40/18 3,50/250	AlMn0,5Mg0,5 min. 0,6 mm	PUR PA	45 - 55 µm	60 (years)	No amorti- sation	1,82%
Comax Alukryt 444	AlMn0,5Mg0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Alukryt 444	AlMn0,5Mg0,5 min. 0,6 mm	PES HD	20 - 25 µm	50 (years)	No amorti- sation	2,22%
Comax Alukryt 444	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.	25 - 30 µm	50 (years)	No amorti- sation	2,22%

Name of roofing	Material used Al	Surface finish type	Thick- ness of coating	Func- tional- ity	Amortiza- tion (≥ 5 years)	Amortiza- tion (< 5 years)
Comax Alukryt 444	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.em b	25 - 30 μm	45 (years)	No amorti- sation	2,50%
Comax Alukryt 444	AlMn0,5Mg0,5 min. 0,6 mm	PVDF	28 - 25 μm	55 (years)	No amorti- sation	2,02%
Comax Alukryt 444	AlMn0,5Mg0,5 min. 0,6 mm	PUR PA	45 - 55 μm	60 (years)	No amorti- sation	1,82%
Comax Alukryt 888	AlMn0,5Mg0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Alukryt 888	AlMn0,5Mg0,5 min. 0,6 mm	PES HD	20 - 25 μm	50 (years)	No amorti- sation	2,22%
Comax Alukryt 888	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.	25 - 30 μm	50 (years)	No amorti- sation	2,22%
Comax Alukryt 888	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.em b	25 - 30 μm	45 (years)	No amorti- sation	2,50%
Comax Alukryt 888	AlMn0,5Mg0,5 min. 0,6 mm	PVDF	28 - 25 μm	55 (years)	No amorti- sation	2,02%
Comax Alukryt 888	AlMn0,5Mg0,5 min. 0,6 mm	PUR PA	45 - 55 μm	60 (years)	No amorti- sation	1,82%
Comax Vlnka 27/115	Al99,5,AlMn0,5Mg 0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Vlnka 27/115	Al99,5,AlMn0,5Mg 0,5 min. 0,6 mm	PES HD	20 - 25 μm	50 (years)	No amorti- sation	2,22%
Comax Vlnka 27/115	Al99,5,AlMn0,5Mg 0,5 min. 0,6 mm	PES HD text.	25 - 30 μm	50 (years)	No amorti- sation	2,22%
Comax Vlnka 27/115	Al99,5,AlMn0,5Mg 0,5 min. 0,6 mm	PES HD text.em b	25 - 30 μm	45 (years)	No amorti- sation	2,50%
Comax Vlnka 27/115	Al99,5,AlMn0,5Mg 0,5 min. 0,6 mm	PVDF	28 - 25 μm	55 (years)	No amorti- sation	2,02%
Comax Vlnka 27/115	Al99,5,AlMn0,5Mg 0,5 min. 0,6 mm	PUR PA	45 - 55 μm	60 (years)	No amorti- sation	1,82%
Comax Falc 25	AlMn1,Mg0,5 min. 0,7 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Falc 25	AlMn1,Mg0,5 min. 0,7 mm	PES HD	20 - 25 μm	60 (years)	No amorti- sation	1,82%
Comax Falc 25	AlMn1,Mg0,5 min. 0,7 mm	PES HD text.	25 - 30 μm	60 (years)	No amorti- sation	1,82%

Name of roofing	Material used Al	Surface finish type	Thickness of coating	Functionality	Amortization (≥ 5 years)	Amortization (< 5 years)
Comax Falc 25	AlMn1,Mg0,5 min. 0,7 mm	PES HD text.emb	25 - 30 μm	55 (years)	No amortisation	2,02%
Comax Falc 25	AlMn1,Mg0,5 min. 0,7 mm	PVDF	28 - 25 μm	73 (years)	No amortisation	1,48%
Comax Falc 25	AlMn1,Mg0,5 min. 0,7 mm	PVDF emb	28 - 25 μm	65 (years)	No amortisation	1,67%
Comax Falc 25	AlMn1,Mg0,5 min. 0,7 mm	PUR PA	45 - 55 μm	75 (years)	No amortisation	1,43%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,7 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,7 mm	PES HD	20 - 25 μm	50 (years)	No amortisation	2,22%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,7 mm	PES HD text.	25 - 30 μm	50 (years)	No amortisation	2,22%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,7 mm	PES HD text.emb	25 - 30 μm	45 (years)	No amortisation	2,50%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,7 mm	PVDF	28 - 25 μm	60 (years)	No amortisation	1,82%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,7 mm	PVDF emb	28 - 25 μm	55 (years)	No amortisation	2,02%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,7 mm	PUR PA	45 - 55 μm	65 (years)	No amortisation	1,67%
Comax Falc 25	AlMn1,Mg0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Falc 25	AlMn1,Mg0,5 min. 0,6 mm	PES HD	20 - 25 μm	50 (years)	No amortisation	2,22%
Comax Falc 25	AlMn1,Mg0,5 min. 0,6 mm	PES HD text.	25 - 30 μm	50 (years)	No amortisation	2,22%
Comax Falc 25	AlMn1,Mg0,5 min. 0,6 mm	PES HD text.emb	25 - 30 μm	45 (years)	No amortisation	2,50%
Comax Falc 25	AlMn1,Mg0,5 min. 0,6 mm	PVDF	28 - 25 μm	60 (years)	No amortisation	1,82%
Comax Falc 25	AlMn1,Mg0,5 min. 0,6 mm	PVDF emb	28 - 25 μm	55 (years)	No amortisation	2,02%
Comax Falc 25	AlMn1,Mg0,5 min. 0,6 mm	PUR PA	45 - 55 μm	65 (years)	No amortisation	1,67%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,6 mm	PES HD	20 - 25 μm	50 (years)	No amortisation	2,22%

Name of roofing	Material used Al	Surface finish type	Thick-ness of coating	Func-tional-ity	Amortiza-tion (≥ 5 years)	Amortiza-tion (< 5 years)
Comax Falc svitek	AlMn1,Mg0,5 min. 0,6 mm	PES HD text.	25 - 30 μm	50 (years)	No amorti-sation	2,22%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,6 mm	PES HD text.em b	25 - 30 μm	45 (years)	No amorti-sation	2,50%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,6 mm	PVDF	28 - 25 μm	60 (years)	No amorti-sation	1,82%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,6 mm	PVDF emb	28 - 25 μm	55 (years)	No amorti-sation	2,02%
Comax Falc svitek	AlMn1,Mg0,5 min. 0,6 mm	PUR PA	45 - 55 μm	65 (years)	No amorti-sation	1,67%
Comax Klik 25	AlMn1,Mg0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Klik 25	AlMn1,Mg0,5 min. 0,6 mm	PES HD	20 - 25 μm	50 (years)	No amorti-sation	2,22%
Comax Klik 25	AlMn1,Mg0,5 min. 0,6mm	PES HD text.	25 - 30 μm	50 (years)	No amorti-sation	2,22%
Comax Klik 25	AlMn1,Mg0,5 min. 0,6mm	PES HD text.em b	25 - 30 μm	45 (years)	No amorti-sation	2,50%
Comax Klik 25	AlMn1,Mg0,5 min. 0,6 mm	PVDF	28 - 25 μm	60 (years)	No amorti-sation	1,82%
Comax Klik 25	AlMn1,Mg0,5 min. 0,6 mm	PVDF emb	28 - 25 μm	55 (years)	No amorti-sation	2,02%
Comax Klik 25	AlMn1,Mg0,5 min. 0,6 mm	PUR PA	45 - 55 μm	65 (years)	No amorti-sation	1,67%
Comax Klik 25	AlMn1,Mg0,5 min. 0,7 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Klik 25	AlMn1,Mg0,5 min. 0,7 mm	PES HD	20 - 25 μm	60 (years)	No amorti-sation	1,82%
Comax Klik 25	AlMn1,Mg0,5 min. 0,7 mm	PES HD text.	25 - 30 μm	60 (years)	No amorti-sation	1,82%
Comax Klik 25	AlMn1,Mg0,5 min. 0,7 mm	PES HD text.em b	25 - 30 μm	55 (years)	No amorti-sation	2,02%
Comax Klik 25	AlMn1,Mg0,5 min. 0,7 mm	PVDF	28 - 37 μm	73 (years)	No amorti-sation	1,48%
Comax Klik 25	AlMn1,Mg0,5 min. 0,7 mm	PVDF emb	28 - 37 μm	65 (years)	No amorti-sation	1,67%
Comax Klik 25	AlMn1,Mg0,5 min. 0,7 mm	PUR PA	45 - 55 μm	75 (years)	No amorti-sation	1,43%
Comax Klik 38	AlMn1,Mg0,5 min. 0,6 mm	Not coated*	X	40 (years)	2%	2,57%

Name of roofing	Material used Al	Surface finish type	Thick- ness of coating	Func- tional- ity	Amortiza- tion (≥ 5 years)	Amortiza- tion (< 5 years)
Comax Klik 38	AlMn1,Mg0,5 min. 0,6 mm	PES HD	20 - 25 µm	50 (years)	No amorti- sation	2,22%
Comax Klik 38	AlMn1,Mg0,5 min. 0,6mm	PES HD text.	25 - 30 µm	50 (years)	No amorti- sation	2,22%
Comax Klik 38	AlMn1,Mg0,5 min. 0,6mm	PES HD text.em b	25 - 30 µm	45 (years)	No amorti- sation	2,50%
Comax Klik 38	AlMn1,Mg0,5 min. 0,6mm	PVDF	28 - 25 µm	60 (years)	No amorti- sation	1,82%
Comax Klik 38	AlMn1,Mg0,5 min. 0,6 mm	PVDF emb	28 - 25 µm	55 (years)	No amorti- sation	2,02%
Comax Klik 38	AlMn1,Mg0,5 min. 0,6 mm	PUR PA	45 - 55 µm	65 (years)	No amorti- sation	1,67%
Comax Klik 38	AlMn1,Mg0,5 min. 0,7 mm	Not coated*	X	40 (years)	2%	2,57%
Comax Klik 38	AlMn1,Mg0,5 min. 0,7 mm	PES HD	20 - 25 µm	60 (years)	No amorti- sation	1,82%
Comax Klik 38	AlMn1,Mg0,5 min. 0,7 mm	PES HD text.	25 - 30 µm	60 (years)	No amorti- sation	1,82%
Comax Klik 38	AlMn1,Mg0,5 min. 0,7 mm	PES HD text.em b	25 - 30 µm	55 (years)	No amorti- sation	2,02%
Comax Klik 38	AlMn1,Mg0,5 min. 0,7 mm	PVDF	28 - 25 µm	73 (years)	No amorti- sation	1,48%
Comax Klik 38	AlMn1,Mg0,5 min. 0,7 mm	PVDF emb	28 - 25 µm	65 (years)	No amorti- sation	1,67%
Comax Klik 38	AlMn1,Mg0,5 min. 0,7 mm	PUR PA	45 - 55 µm	75 (years)	No amorti- sation	1,43%
Comax BOCO 330	AlMn1,Mg0,5 min. 0,7 mm	PES HD text.	25 - 30 µm	50 (years)	No amorti- sation	2,22%
Comax facade panel	AlMn0,5Mg0,5 min. 0,6 mm	PES HD	20 - 25 µm	50 (years)	No amorti- sation	2,22%
Comax facade panel	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.	25 - 30 µm	50 (years)	No amorti- sation	2,22%
Comax facade panel	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.em b	25 - 30 µm	45 (years)	No amorti- sation	2,50%
Comax facade panel	AlMn0,5Mg0,5 min. 0,6 mm	PVDF	28 - 25 µm	60 (years)	No amorti- sation	1,82%
Comax facade panel	AlMn0,5Mg0,5 min. 0,6 mm	PVDF emb	28 - 25 µm	55 (years)	No amorti- sation	2,02%

Name of roofing	Material used Al	Surface finish type	Thick- ness of coating	Func- tional- ity	Amortiza- tion (≥ 5 years)	Amortiza- tion (< 5 years)
Comax facade panel	AlMn0,5Mg0,5 min. 0,6 mm	PUR PA	45 - 55 μm	65 (years)	No amorti- sation	1,67%
Comax ridge tile, rounded	AlMn0,5Mg0,5 min. 0,6 mm	PES HD	20 - 25 μm	50 (years)	No amorti- sation	2,22%
Comax ridge tile, rounded	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.	25 - 30 μm	50 (years)	No amorti- sation	2,22%
Comax ridge tile, rounded	AlMn0,5Mg0,5 min. 0,6 mm	PES HD text.emb	25 - 30 μm	45 (years)	No amorti- sation	2,50%
Comax ridge tile, rounded	AlMn0,5Mg0,5 min. 0,6 mm	PVDF	28 - 25 μm	60 (years)	No amorti- sation	1,82%
Comax ridge tile, rounded	AlMn0,5Mg0,5 min. 0,6 mm	PVDF emb	28 - 25 μm	55 (years)	No amorti- sation	2,02%
Comax ridge tile, rounded	AlMn0,5Mg0,5 min. 0,6 mm	PUR PA	45 - 55 μm	65 (years)	No amorti- sation	1,67%

* = not recommended

X = without coating

Corrosion resistance - determined in accordance with EN 10169

The guarantee is not valid in following cases:

1. The metal sheets are used in extreme climatic and industrial environment.
2. The metal sheets are used in especially corrosive environment (C4, C5) or in an aggressive environment, where the content of salt in the atmosphere is high, where the metal sheets are continuously in contact with water, or where the corrosive emissions, chemicals, vapour condensation, ash, cement powder or faeces may take effect.
3. The metal sheets/strips are in contact with copper, salts of copper, or where the liquids from copper and iron components runs on the sheets/plates.
4. Improper use, storage, handling, and unsuitable and non-professional processing of coated sheets (even with respect to the coated substrate).
5. Damaged area is less than 4% of the metal sheet areas; integrity of the coated area on the reverse side, if this concerns the single-pass coating and repainted/repaired areas. Furthermore, if it concerns a difference in shade on the reverse side during one-sided painting.
6. The roofing was not installed within 3 (three) months after date of purchase.
7. Damages due to activities like shearing, drilling, etc. and corrosion caused by fly-away metal particles. Combination of material creating the galvanic cell or potential difference.
9. Damages due to aggressive methods of processing, handling, cleaning (including both mechanical and chemical damages).
10. Corrosion at the reverse side of panels, internal parts of the overlapping, and effects caused by phenomena and activities inside the building.
11. Non-compliance of temperature limits as stated for mechanical/manual processing; breaching of thermo-plastic parameters of the coating when processed at the temperature more than 60 °C.
12. If the roof flap, formwork or battens do not meet the 100% flatness for secure attachment and functionality of the roofing.
13. If adhesives, sealants, detergents, rinse aids or other acetate-based chemicals have been used to join or bond the material during installation, production, washing and others.
14. If the material or surface of the paint is damaged due to non-compliance with the recommended regular maintenance and washing.
15. If the organic coating is damaged due to prolonged contact with the protective foil or sensing outside the recommended temperature tolerance. The foil must be removed no later than three months after its application and immediately after installing the product, in a temperature range of 10-35°C.
16. If the environmental questionnaire was not filled in when using the roof covering in the C4-C5 environment

Realization of the guarantee

This guarantee of company METAL TRADE COMAX, a.s. concerns only the Buyer. This guarantee is neither transferrable nor portable.

If the Buyer is reasonably convinced that there was a breaching of the Guarantee conditions for the delivered goods, the Buyer must immediately and in writing notify the company METAL TRADE COMAX, a.s.

In conformity with the Contract and General terms and conditions, the sufficient possibility to verify the delivered goods (claimed as unsatisfactory) must be provided to the supplier.

The manufacturer - Metal Trade Comax a.s. - keeps the exclusive right to choose method for resolution of claim, namely:

- repairing of fault
- replacing of faulty parts
- financial settlement in amount corresponding to the scope and importance of the fault in question.

In case that the producer will neither repair the faults nor replace the faulty parts, the user will be entitled to financial settlement, which amount will be stated according to the scope and importance of the fault in

question, whereas any financial settlement by reason of functionality will be limited to the maximum amount equal to the purchase price as stated in the invoice issued by the company Metal Trade Comax a.s. concerning this concrete product, reduced by the multiple of yearly amortisation (according to the even initiated years of service), for HDGS and AL product according the table of amortization.

This guarantee is fully valid, if all necessary accessories for realisation of the respective roof is delivered by our company Metal Trade Comax a.s. Otherwise, the guarantee according the given tables is reduced to 1/2 (50%).

The guarantee is completed with the liabilities being valid within the company in the moment of purchase, which include the supplier's conditions.

The company METAL TRADE COMAX, a.s. reserves the right to terminate this guarantee (excluded already accepted order) anytime, afterwards the company notified about this in writing.

This guarantee is intended as the final, entire, and exclusive statement of agreement; it creates a part of Contract of purchase for coated or non-coated roofing; any verbal or written statements are thereby excluded.

This document is valid since 02.01.2023

ANNEX No. 1

ENVIRONMENTAL QUESTIONNAIRE

In order to provide this warranty, it is necessary that the Client will complete this Questionnaire and send it to the Seller's business department. Only the duly completed and by Client undersigned Questionnaires will be considered.

I/CLIENT'S DATA

COMPANY'S NAME:

.....
.....

BUSINESS ACTIVITY:

.....

CONTACT DATA:

• Address

.....
.....
.....

• Phone

.....

• Fax

.....

• E-mail address

.....

CONTACT PERSON:

.....

USED MATERIAL

*fill in only if the material has already been delivered

Material delivery note.....

Batch of used material

II/DESCRIPTION OF BUILDING STRUCTURE:

PLANNED ACTIVITIES

- Erection of new building
- Additional/annexed building
- Additional/annexed building of the building originally erected using the material delivered by Seller (please, state the reference data for the appropriate job order (orders), date, job order No., quality, ad quantity delivered).

TYPE AND PURPOSE OF THE BUILDING

- Building
 - Residential
 - Industrial
 - Agricultural
 - Other (please specify)
- Activities
 - Nature of activities which will be performed in the building
 - Presence, use, and/or storage of chemical products
 - Presence, use, and/or storage of fermentation products
 - Presence of animals inside the building
- Gas, smoke, and vapour emissions
 - Type of heating (oil firing, etc.).....
 - Exhausting device for smoke and vapours (evacuation, chimney, natural aeration, forced aeration, others).....

POSITIONING OF PRODUCTS WHICH THE CLIENT CONSIDERS TO ORDER

- Roofing
 - Product name
 - Thickness
 - Coating
 - Surface
 - Slope

- Facings
 - Product name
 - Thickness
 - Coating
 - Surface
 - Slope

III/ ENVIRONMENT OF THE BUILDING

GEOGRAPHICAL LOCATION OF THE BUILDING

- Information about building
 - Erector's company name/project manager
.....
 - Contact data
 - Address/location
 - Phone
 - Fax.....
 - E-mail address
 - Site engineer - contact

• Location of the building

- Rural environment
- Nearby the building(s) used for breeding (please, state the distance to the site)
- Nearby the building(s) used for storage of fermentation products (please, state the distance to the site)
- Nearby the sources of smoke from oil firing (please, state the distance to the site)
- Nearby the town agglomerations and/or industrial ones, where several plants producing gases, smoke, and/or vapours are situated (please, state the distance to the site as well as the kind of gas, smoke, vapours).
- Nearby the town agglomerations and/or industrial ones, where especially refineries, cement works, incineration plants, distilleries, paper-mills, laboratories are situated (please, state the distance to the site).
- Nearby the sea (an external environment of the building which is situated less than 3 kilometres from the seashore, where no direct attack by the sea water occurs).
- Nearby the sea bank (an external environment of the building which is situated less than 3 kilometres from the seashore, where partial or occasional attack by the sea water and/or direct influence of the sea water sprayed on the building occur).
- In a maritime environment (an external environment of the building which is situated 3 to 20 kilometres from the seashore).
- In a combined environment (combination of the maritime and normal or extreme town and industrial environment)
- In a special environment (combination of impact of above mentioned climatic influences and some other factors - e.g. Abrasion, high temperature, high air-humidity, large dust deposits, etc.)
- The determination of atmosphere according to standards EN-10169, for hot-dip galvanized materials (C1-C5 atmosphere).
- The determination of atmosphere according to standards for aluminum and his alloys according to EN 1396 (category 1-4).

ALTITUDE

- More than 900 metres
- Less than 900 metres

SOLAR RADIATION

- Strong
- Medium
- Slight

PRECIPITATION QUANTITY

- Great
- Medium
- Small

SNOWFALL QUANTITY

- Great
- Medium
- Small

- Interior of the building

HUMIDITY INSIDE THE BUILDING

- Minimum humidity.....
- Maximum humidity.....
- Inside humidity in relation to time of a day (24 hrs).....
- The determination of criterion of aggression of the environs according to standards EN-1396
- The determination of criterion of aggression of the environs according to standards EN-10169

TEMPERATURE CONDITIONS INSIDE THE BUILDING

- Minimum temperature.....
- Maximum temperature.....
- Inside temperature in relation to time of a day (24 hrs).....

- Building surface cleaning

OUTSIDE SURFACES CLEANING METHODS

- Water cleaning
- Pressurized water cleaning
- Mechanical cleaning
- Cleaning by means of detergent solutions – detergent type, concentration, technical sheet, safety sheet
.....
- Other methods.....

INSIDE SURFACES CLEANING METHODS

- Water cleaning
- Pressurized water cleaning
- Mechanical cleaning
- Cleaning by detergent solutions – detergent type, concentration, technical sheet, safety sheet

.....
Other methods.....

IV/ OTHER USED MATERIALS

- For roofing and cladding only the products are used.
- Other used materials, especially cement, slack concrete bricks
 - for roofing (please, state the type of material and surface intended for sheathing)
.....
 - for cladding (please, state the type of material and surface intended for sheathing)
.....

V/ OTHER INFORMATION / REMARKS

.....
.....
.....
.....

In, dated

Client's identity (1) (2)

- (1) Company's rubber stamp
- (2) Name and signature of the authorised person

Annex No. 2

Resistance to cracking - T-bend acc. To EN-13523-7

- Coating's resistance at bending for basic metal material - 2T

Description

A jaws of the gripper

B test sample

C thumb

1 direction of the movement

2 T-bend acc. to ECCA

3 proper bend

4 improper bend

5 winding direction of the reel

