

ROOFER HANDBOOK

for clay roof tiles

2025



swisspor ton

INTERLOCKING ROOF TILES 3.

BALANCE® 5.

RAPIDO® 7.

NOMINA® 9.

RIDGE TILES 11.

TITANIA® 13.

SIMPLA® 15.

MAXIMA PRO® 17.

RIDGE TILES 19.

EXTRUDED ROOF TILES 21.

"HORTOBÁGY" 23.

"RONA" segment cut 25.

"RONA" straight cut 27.

AMBIENTE® pointed cut 29.

AMBIENTE® segment cut 29.

AMBIENTE® straight cut 29.

KLASSIK® rounded cut 30.

KLASSIK® 20×40 rounded cut "Austrian plain tile" 33.

KLASSIK® 20×40 straight cut "Vienna bag" 33.

RIDGE TILES 36.

BATTEN DISTANCES - OVERVIEW 37.

INTERLOCKING ROOF TILES 37.

SIDE INTERLOCKING PLAIN TILES 37.

PLAIN ROOF TILES 38.

ABOVE THE RAFTER INSULATION 39.

swisspor PIR 39.

swisspor PIR PLUS 40.

EAVE DETAIL 42.

VERGE DETAIL 43.

HIP AND RIDGE DETAIL 44.

VALLEY DETAIL 44.

UNDERLAYMENTS 45.

swisspor ECO 45.

swisspor BASIC 46.

swisspor PRO 47.

swisspor ULTRA 48.

NOMINA



BALANCE®



natural red brick red engobed copper red engobed wine red engobed dark brown engobed slate grey engobed



black engobed black matt engobed

TITANIA®



copper red engobed slate grey engobed black matt engobed slate grey glazed black glazed brown glazed

NOMINA®



brick red engobed copper red engobed dark brown engobed slate grey engobed black engobed black matt engobed

SIMPLA®



slate grey engobed black matt engobed slate grey glazed black glazed

RAPIDO®



natural red brick red engobed copper red engobed wine red engobed dark brown engobed slate grey engobed



black engobed black matt engobed

MAXIMA PRO®

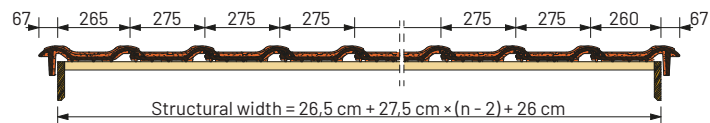


copper red engobed slate grey engobed black matt engobed black glazed

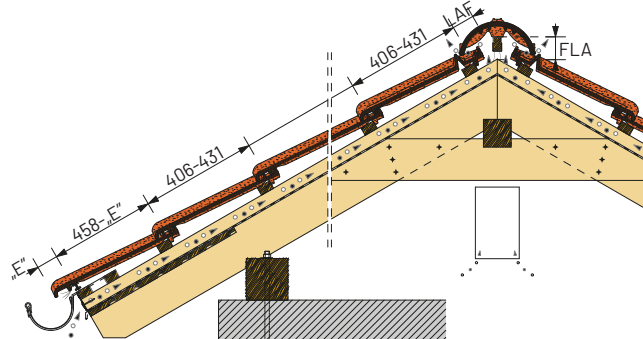


	min.	avg.	max.
Covering width	274 mm	275 mm	277 mm
Covering length	406 mm	419 mm	431 mm
	max.	avg.	min.
Requirement	9,0 pcs/m ²	8,7 pcs/m ²	8,4 pcs/m ²
Surface weight	44,1 kg/m ²	42,6 kg/m ²	41,2 kg/m ²
Weight	4,9 kg/pcs		
Packaging	4 pcs/package	192 pcs/package	
Covering method	in mesh		
Standard roof pitch	22 °		

Unsupported underlayment	„ECO“	≥16°
Windproof underlayment	„BASIC“	≥14°
Watertight underlayment	„PRO“	≥12°
Waterproof underlayment	„ULTRA“	≥10°



Requirement for covering width	Requirement for covering length
Ridge connection ventilation tile and shed roof tile	Verge tile, double wave tile
Cc. 3,6 pcs/m	Cc. 2,4 pcs/m

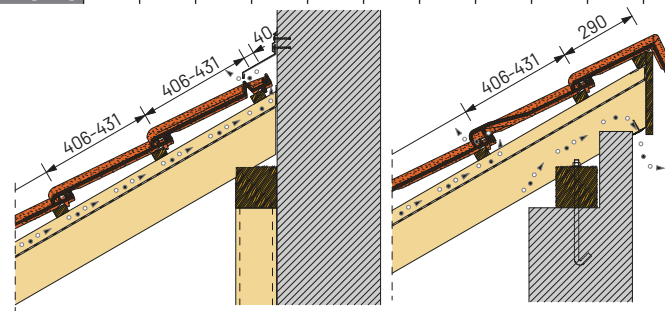


„PF“ ridge tile (2,5 pcs/m) and 30×50 roof batten										
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55° 60°
LAF [mm]	95	90	90	80	80	80	75	75	75	75
FLA [mm]	100	95	90	80	70	60	50	45	30	25 20

„PF“ ridge tile (2,5 pcs/m) and 40×60 roof batten										
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55° 60°
LAF [mm]	95	90	90	75	75	75	70	65	60	60 60
FLA [mm]	105	105	100	90	80	70	60	55	40	35 30

„PR“ ridge tile (2,5 pcs/m) and 30×50 roof batten										
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55° 60°
LAF [mm]	95	90	90	80	80	80	75	75	75	75
FLA [mm]	100	95	90	80	70	60	50	45	30	25 20

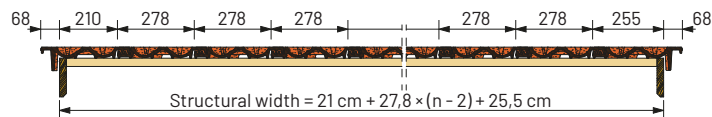
„PR“ ridge tile (2,5 pcs/m) and 40×60 roof batten										
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55° 60°
LAF [mm]	95	90	90	75	75	75	70	65	60	60 60
FLA [mm]	105	105	100	90	80	70	60	55	40	35 30



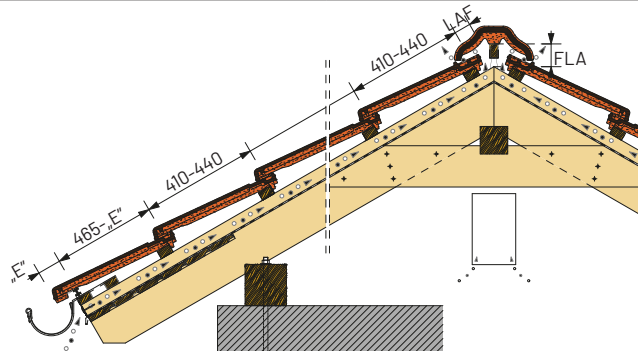
	Out-ventilation cross-section	Ventilated rafter lengths
Ridge connection ventilation tile	115 cm ² /m	Cc. 23 m
Ventilation tile LQ37	37,5 cm ² /pcs	
Every tile is ventilation tile	135 cm ² /m	Cc. 27 m
Every second tile is ventilation tile	67,5 cm ² /m	Cc. 13,5 m
Every third tile is ventilation tile	45 cm ² /m	Cc. 9 m

	min.	avg.	max.
Covering width	277 mm	278 mm	280 mm
Covering length	410 mm	425 mm	440 mm
	max.	avg.	min.
Requirement	8,8 pcs/m ²	8,4 pcs/m ²	8,1 pcs/m ²
Surface weight	48,4 kg/m ²	43,7 kg/m ²	42,1 kg/m ²
Weight	5,2 kg/pcs		
Packaging	4 pcs/package	168 pcs/package	
Covering method	in binding / in mesh		
Standard roof pitch	25°		

Unsupported underlayment	„ECO“	≥ 18°
Windproof underlayment	„BASIC“	≥ 16°
Watertight underlayment	„PRO“	≥ 14°
Waterproof underlayment	„ULTRA“	≥ 10°



Requirement for covering width	Requirement for covering length
Ridge connection ventilation tile and shed roof tile	Verge tile, double wave tile
Cc. 3,6 pcs/m	Cc. 2,4 pcs/m

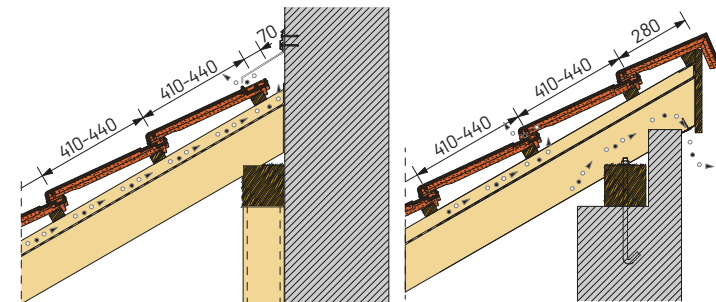


„PF“ ridge tile (2,5 pcs/m) and 30×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	75	70	70	65	60	60	60	60	60	55	✗
FLA [mm]	110	95	85	75	65	60	50	35	30	30	✗

„PF“ ridge tile (2,5 pcs/m) and 40×60 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	75	70	70	60	55	55	55	50	45	40	✗
FLA [mm]	120	105	95	85	75	70	60	45	40	20	✗

„PR“ ridge tile (2,5 pcs/m) and 30×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	75	70	70	65	60	60	60	60	60	55	✗
FLA [mm]	110	95	85	75	65	60	50	35	30	30	✗

„PR“ ridge tile (2,5 pcs/m) and 40×60 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	75	70	70	60	55	55	55	50	45	40	✗
FLA [mm]	120	105	95	85	75	70	60	45	40	20	✗

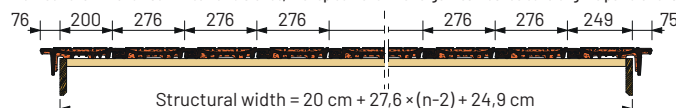


	Out-ventilation cross-section	Ventilated rafter lengths
Ridge connection ventilation tile	115 cm ² /m	Cc. 23 m
Ventilation tile LQ37	37,5 cm ² /pcs	
Every tile is ventilation tile	135 cm ² /m	Cc. 27 m
Every second tile is ventilation tile	67,5 cm ² /m	Cc. 13,5 m
Every third tile is ventilation tile	45 cm ² /m	Cc. 9 m

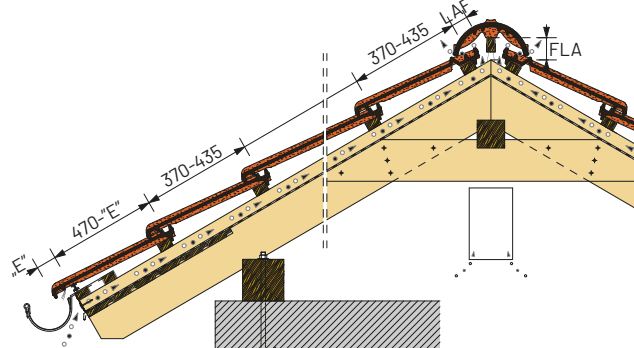
	min.	avg.	max.
Covering width	275 mm	277 mm	280 mm
Covering length	370 mm	402 mm	435 mm
	max.	avg.	min.
Requirement	9,8 pcs/m ²	9,0 pcs/m ²	8,2 pcs/m ²
Surface weight	57,8 kg/m ²	53,1 kg/m ²	48,4 kg/m ²
Weight	5,9 kg/pcs		
Packaging	4 pcs/package	192 pcs/package	
Covering method	in mesh		
Standard roof pitch	25°		

Unsupported underlayment	„ECO“	≥18°
Windproof underlayment	„BASIC“	≥16°
Watertight underlayment	„PRO“	≥14°
Waterproof underlayment	„ULTRA“	≥10°

(1.) Between 370 mm and 405 mm batten distance, the top corner of the verge tiles must be cut along the perforations.



Requirement for covering width	Requirement for covering length
Ridge connection ventilation tile and shed roof tile	Verge tile, double wave tile
Cc. 3,6 pcs/m	Cc. 2,5 pcs/m

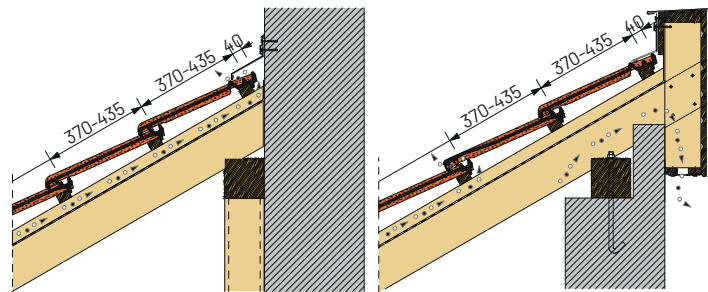


„PF“ ridge tile (2,5 pcs/m) and 30×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	80	75	70	65	60	60	60	60	50	X	X
FLA [mm]	120	110	100	90	80	70	60	50	45	X	X

„PF“ ridge tile (2,5 pcs/m) and 40×60 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	75	70	65	60	55	50	50	45	35	X	X
FLA [mm]	125	120	110	100	95	85	75	65	60	X	X

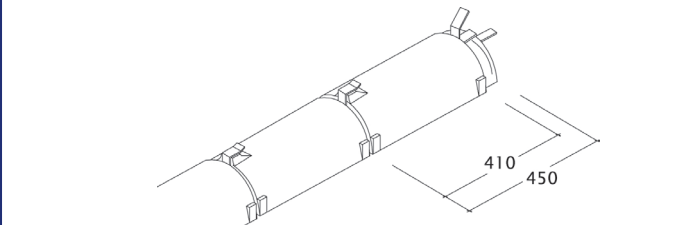
„PR“ ridge tile (2,5 pcs/m) and 30×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	80	75	70	65	60	60	60	60	50	X	X
FLA [mm]	120	110	100	90	80	70	60	50	45	X	X

„PR“ ridge tile (2,5 pcs/m) and 40×60 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	75	70	65	60	55	50	50	45	35	X	X
FLA [mm]	125	120	110	100	95	85	75	65	60	X	X



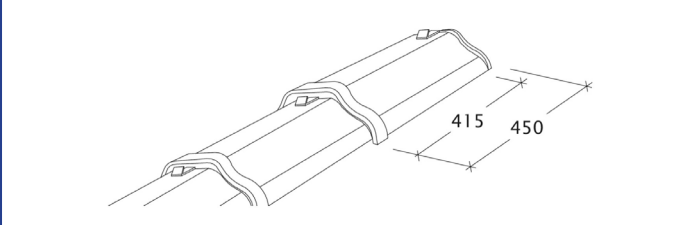
	Out-ventilation cross-section	Ventilated rafter lengths
Ridge connection ventilation tile	115 cm ² /m	Cc. 23 m
Ventilation tile LQ37	37,5 cm ² /pcs	
Every tile is ventilation tile	135 cm ² /m	Cc. 27 m
Every second tile is ventilation tile	67,5 cm ² /m	Cc. 13,5 m
Every third tile is ventilation tile	45 cm ² /m	Cc. 9 m

„PF“ ridge tile 2,5 pcs/m



Closing plate	Functional closing plate	Hip starter
		
Hip starter shell-shaped	Hip starter rounded	3 way hip cap tile
		
	4 way hip cap tile	
		

„PR“ ridge tile 2,5 pcs/m

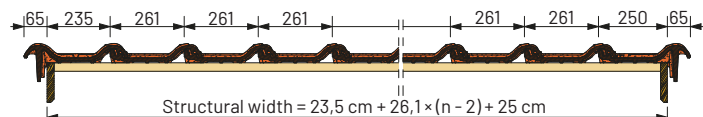


Closing plate	Functional closing plate	Hip starter
		
Hip starter shell-shaped	3 way hip cap tile	4 way hip cap tile
		

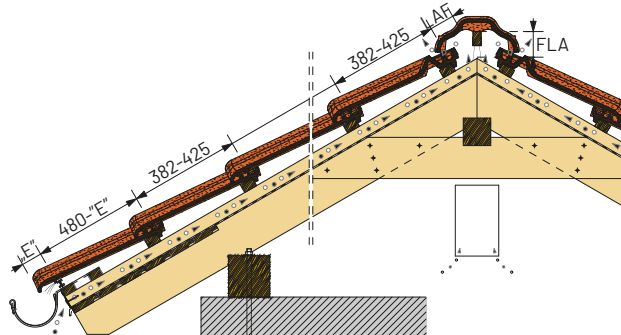


	min.	avg.	max.
Covering width	260 mm	262 mm	264 mm
Covering length	382 mm	403 mm	425 mm
	max.	avg.	min.
Requirement	10,1 pcs/m ²	9,5 pcs/m ²	9,0 pcs/m ²
Surface weight	52,5 kg/m ²	49,4 kg/m ²	46,8 kg/m ²
Weight	5,2 kg/pcs		
Packaging	4 pcs/package	192 pcs/package	
Covering method	in mesh		
Standard roof pitch	22 °		

Unsupported underlayment	„ECO“	≥16°
Windproof underlayment	„BASIC“	≥14°
Watertight underlayment	„PRO“	≥12°
Waterproof underlayment	„ULTRA“	≥10°



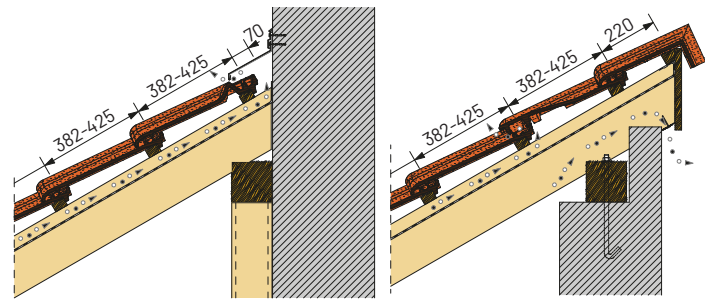
Requirement for covering width	Requirement for covering length
Ridge connection ventilation tile and shed roof tile	Verge tile, double wave tile
Cc. 3,8 pcs/m	Cc. 2,5 pcs/m



„PT“ ridge tile (2,5 pcs/m) and 30×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	90	90	90	90	90	85	80	80	80	75	75
FLA [mm]	110	110	100	80	70	70	65	55	45	35	30

„PT“ ridge tile (2,5 pcs/m) and 40×60 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	90	90	90	85	85	80	75	70	65	60	60
FLA [mm]	120	120	110	90	80	80	75	65	55	45	40

„PT“ ridge tile (2,5 pcs/m) and 50×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	85	85	85	80	80	70	65	60	55	50	45
FLA [mm]	130	130	120	100	90	95	90	80	75	65	70

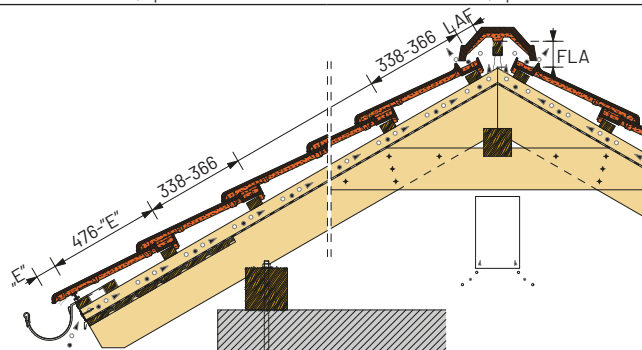


	Out-ventilation cross-section	Ventilated rafter lengths
Ridge connection ventilation tile	115 cm ² /m	Cc. 23 m
Ventilation tile LQ32	32,0 cm ² /pcs	
Every tile is ventilation tile	121,6 cm ² /m	Cc. 24,3 m
Every second tile is ventilation tile	60,8 cm ² /m	Cc. 12,1 m
Every third tile is ventilation tile	40,5 cm ² /m	Cc. 8,1 m

	min.	avg.	max.
Covering width	260 mm	262 mm	263 mm
Covering length	338 mm	352 mm	366 mm
	max.	avg.	min.
Requirement	11,4 pcs/m ²	10,9 pcs/m ²	10,4 pcs/m ²
Surface weight	54,7 kg/m ²	52,3 kg/m ²	49,9 kg/m ²
Weight	4,8 kg/pcs		
Packaging	4 pcs/package	192 pcs/package	
Covering method	in binding		
Standard roof pitch	25°		
Unsupported underlayment	„ECO“		
Windproof underlayment	„BASIC“		
Watertight underlayment	„PRO“		
Waterproof underlayment	„ULTRA“		

60	200	262	262	262	262	262	250	60
Structural width = 20 cm + 26,2 × (n - 2) + 25 cm								

Requirement for covering width	Requirement for covering length
Ridge connection ventilation tile and shed roof tile	Verge tile, double wave tile
Cc. 3,8 pcs/m	Cc. 2,9 pcs/m

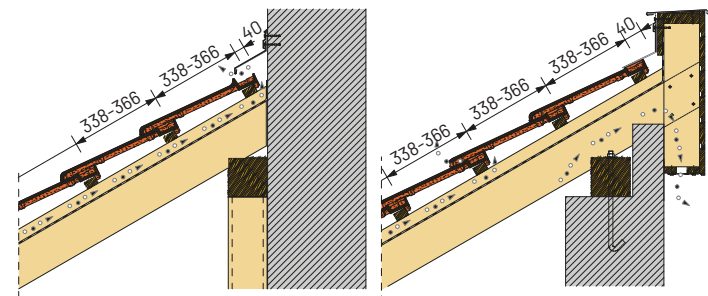


„PS“ ridge tile (2,5 pcs/m) and 30×50 roof batten

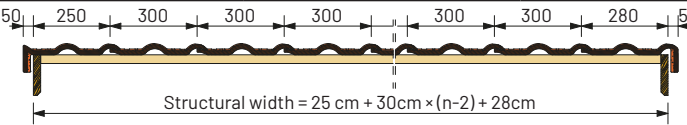
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	X	75	70	70	70	65	65	70	90	100	X
FLA [mm]	X	120	110	90	80	60	60	55	20	15	X

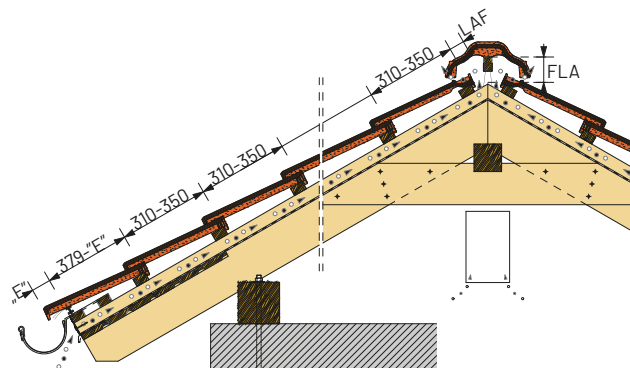
„PS“ ridge tile (2,5 pcs/m) and 40×60 roof batten

Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	X	75	70	65	65	60	60	60	75	85	X
FLA [mm]	X	130	120	100	90	70	70	65	30	25	X

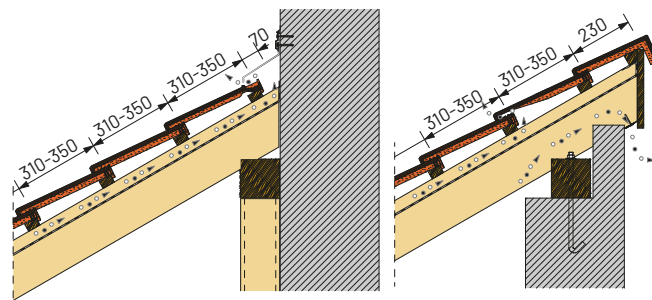


	Out-ventilation cross-section	Ventilated rafter lengths
Ridge connection ventilation tile	115 cm ² /m	Cc. 23 m
Ventilation tile LQ35	35,0 cm ² /pcs	
Every tile is ventilation tile	133 cm ² /m	Cc. 26,6 m
Every second tile is ventilation tile	66,5 cm ² /m	Cc. 13,3 m
Every third tile is ventilation tile	44,3 cm ² /m	Cc. 8,9 m

	min.	avg.	max.	
	Covering width	300 mm	300 mm	300 mm
	Covering length	310 mm	330 mm	350 mm
	max.	avg.	min.	
	Requirement	10,8 pcs/m ²	10,1 pcs/m ²	9,5 pcs/m ²
	Surface weight	40,0 kg/m ²	37,4 kg/m ²	35,2 kg/m ²
	Weight	3,7 kg/pcs		
	Packaging	4 pcs/package	240 pcs/package	
	Covering method	in mesh		
	Standard roof pitch	22°		
<u>Unsupported underlayment</u> „ECO“ ≥16°				
<u>Windproof underlayment</u> „BASIC“ ≥14°				
<u>Watertight underlayment</u> „PRO“ ≥12°				
<u>Waterproof underlayment</u> „ULTRA“ ≥10°				
				
Structural width = 25 cm + 30 cm × (n-2) + 28 cm				
Requirement for covering width		Requirement for covering length		
Ridge connection ventilation tile and shed roof tile		Verge tile, double wave tile		
Cc. 3,3 pcs/m		Cc. 3,0 pcs/m		

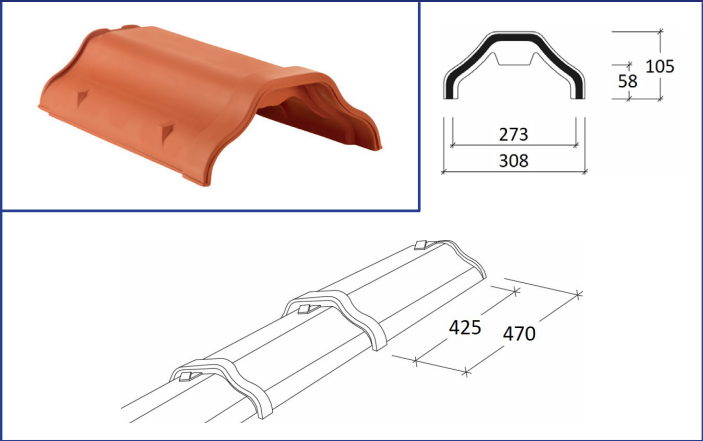


„PT“ ridge tile (2,5 pcs/m) and 30×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	115	110	100	100	100	100	100	100	105	110	X
FLA [mm]	105	95	85	75	65	55	45	35	25	10	X
„PT“ ridge tile (2,5 pcs/m) and 40×60 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	115	110	100	95	95	95	95	90	90	95	95
FLA [mm]	110	105	95	85	75	65	55	45	35	20	10
„PT“ ridge tile (2,5 pcs/m) and 50×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	110	105	95	90	90	85	85	80	80	85	85
FLA [mm]	120	115	105	95	85	80	70	60	50	35	25



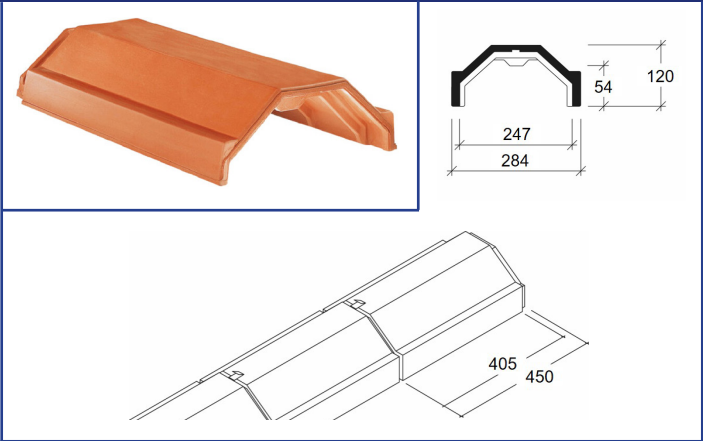
	Out-ventilation cross-section	Ventilated rafter lengths
Ridge connection ventilation tile	115 cm ² /m	Cc. 23 m
Ventilation tile LQ35	35,0 cm ² /pcs	
Every tile is ventilation tile	115,5 cm ² /m	Cc. 23,1 m
Every second tile is ventilation tile	57,8 cm ² /m	Cc. 11,6 m
Every third tile is ventilation tile	38,5 cm ² /m	Cc. 7,7 m

„PT“ ridge tile 2,5 pcs/m



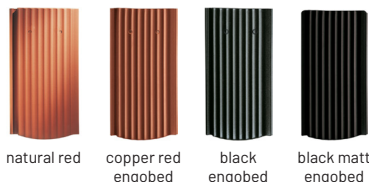
Closing plate	Functional closing plate	Hip starter
		
Hip starter shell-shaped	Hip starter, rounded	3 way hip cap tile
		
4 way hip cap tile		
		

„PS“ ridge tile 2,5 pcs/m

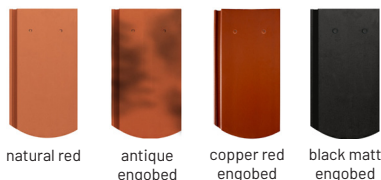


Closing plate	Functional closing plate	Hip starter
		
3 way hip cap tile		
		

„HORTOBÁGY“



RONA® segment cut



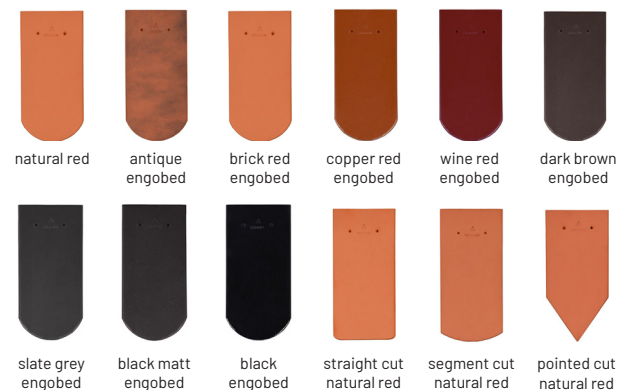
RONA® straight cut



17x38cm CASTA®



18x38cm CLASSIC®

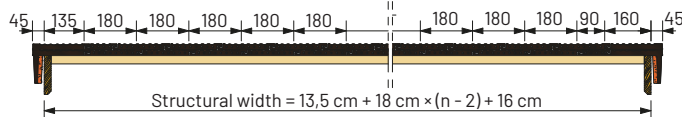


20x40cm

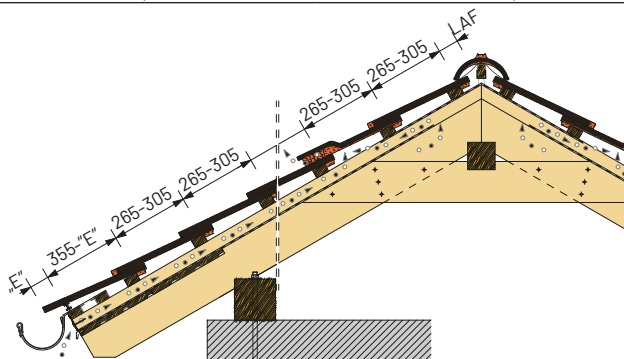


	Covering width180 mm					
	<30°	30°-50°	35°-40°	40°-45°	45°<	
	Covering length	265 mm	274 mm	285 mm	295 mm	305 mm
	Requirement	21,0 pcs/m ²	20,2 pcs/m ²	19,5 pcs/m ²	18,8 pcs/m ²	18,2 pcs/m ²
	Surface weight	52,1 kg/m ²	50,1 kg/m ²	48,4 kg/m ²	46,6 kg/m ²	45,1 kg/m ²
	Weight	2,5 kg/pcs				
	Packaging	6 pcs/package		324 pcs/pallet		
Covering method	in binding					
Standard roof pitch	30°					

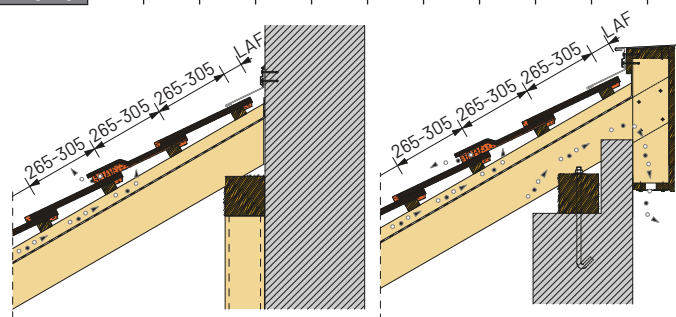
Unsupported underlayment	„ECO“	≥ 24°
Windproof underlayment	„BASIC“	≥ 22°
Watertight underlayment	„PRO“	≥ 18°
Waterproof underlayment	„ULTRA“	≥ 10°



Requirement for covering width	Requirement for covering length
Ventilation tile	Verge tile
Cc. 5,5 pcs/m	Cc. 3,3 - 3,8 pcs/m



„BZ“ ridge tile (3.0 pcs/m) and 30×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	55	55	55	55	55	55	50	50	50	50	50

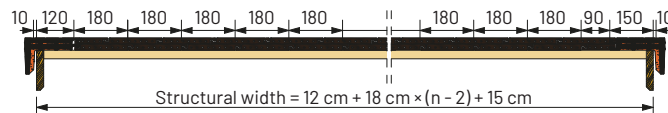


	Out-ventilation cross-section	Ventilated rafter lengths
Ventilation tile LQ10	55,56 cm ² /m	Cc. 11 m
Ventilation tile LQ25	25 cm ² /pcs	
Every tile is ventilation tile	137,5 cm ² /m	Cc. 27,2 m
Every second tile is ventilation tile	68,8 cm ² /m	Cc. 13,6 m
Every third tile is ventilation tile	45,8 cm ² /m	Cc. 9,1 m

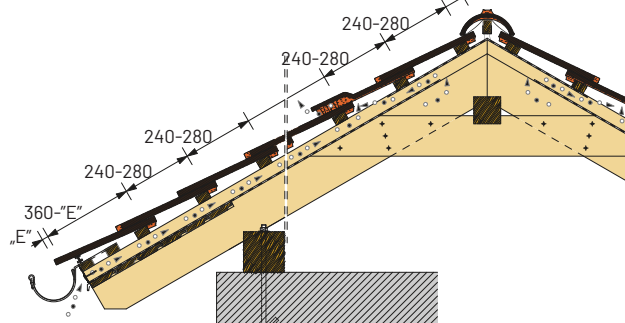


Covering width	180 mm				
	<30°	30°-35°	35°-40°	40°-45°	45°<
Covering length	240 mm	250 mm	260 mm	270 mm	280 mm
Requirement	23,1 pcs/m ²	22,2 pcs/m ²	21,4 pcs/m ²	20,6 pcs/m ²	19,8 pcs/m ²
Surface weight	58,9 kg/m ²	56,6 kg/m ²	54,6 kg/m ²	52,5 kg/m ²	50,5 kg/m ²
Weight	2,6 kg/pcs				
Packaging	6 pcs/package			324 pcs/pallet	
Covering method	in binding				
Standard roof pitch	30°				

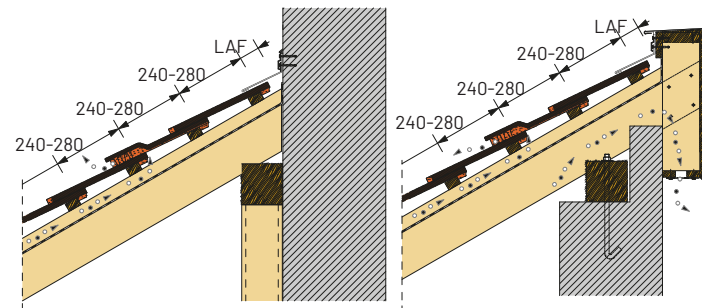
Unsupported underlayment	„ECO“	≥24°
Windproof underlayment	„BASIC“	≥22°
Watertight underlayment	„PRO“	≥18°
Waterproof underlayment	„ULTRA“	≥10°



Requirement for covering width	Requirement for covering length
Ventilation tile Cc. 5,5 pcs/m	Verge tile Cc. 3,6 - 4,1 pcs/m



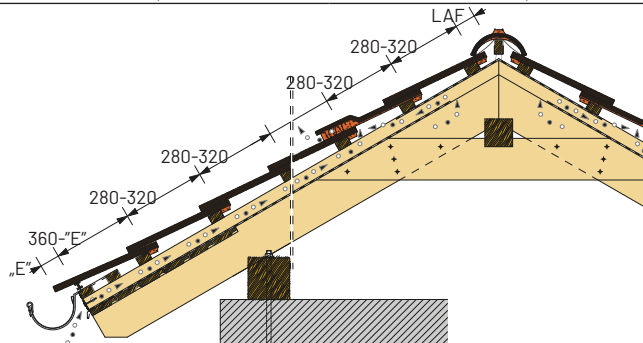
„BZ“ ridge tile (3,0 pcs/m) and 30×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	55	55	55	55	55	55	50	50	50	50	50



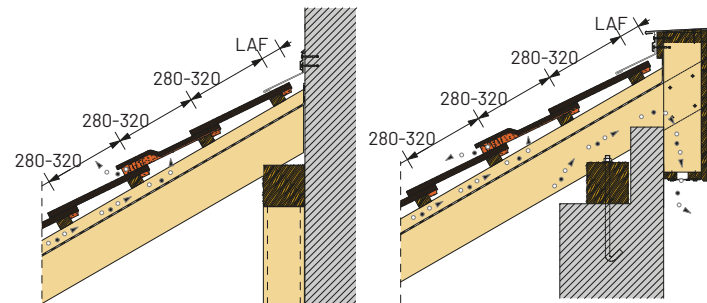
	Out-ventilation cross-section	Ventilated rafter lengths
Ventilation tile LQ10	55,56 cm²/m	Cc. 11 m
Ventilation tile LQ25	25 cm²/pcs	
Every tile is ventilation tile	137,5 cm²/m	Cc. 27,2 m
Every second tile is ventilation tile	68,8 cm²/m	Cc. 13,6 m
Every third tile is ventilation tile	45,8 cm²/m	Cc. 9,1 m

	Covering width	180 mm				
	Covering length	280 mm	290 mm	300 mm	310 mm	320 mm
	Requirement	19,8 pcs/m ²	19,2 pcs/m ²	18,5 pcs/m ²	17,9 pcs/m ²	17,4 pcs/m ²
	Surface weight	54,3 kg/m ²	52,6 kg/m ²	50,7 kg/m ²	49,1 kg/m ²	47,7 kg/m ²
	Weight	2,7 kg/pcs				
	Packaging	6 pcs/package 324 pcs/pallet				
	Covering method	in binding				
	Standard roof pitch	30°				
	Unsupported underlayment	„ECO“				
	Windproof underlayment	„BASIC“				
		≥ 24°				
		≥ 22°				
		≥ 18°				
		≥ 10°				

45	135	180	180	180	180	180	180	180	180	90	160	45
Structural width = 13,5 cm + 18 cm × (n - 2) + 16 cm												
Requirement for covering width						Requirement for covering length						
Ventilation tile						Verge tile						
Cc. 5,5 pcs/m						Cc. 3,1 - 3,6 pcs/m						



„BZ“ ridge tile (3,0 pcs/m) and 30×50 roof batten												
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	
LAF [mm]	55	55	55	55	55	55	50	50	50	50	50	



	Out-ventilation cross-section	Ventilated rafter lengths
Ventilation tile LQ10	55,56 cm ² /m	Cc. 11 m
Ventilation tile LQ25	25 cm ² /pcs	
Every tile is ventilation tile	137,5 cm ² /m	Cc. 27,2 m
Every second tile is ventilation tile	68,8 cm ² /m	Cc. 13,6 m
Every third tile is ventilation tile	45,8 cm ² /m	Cc. 9,1 m



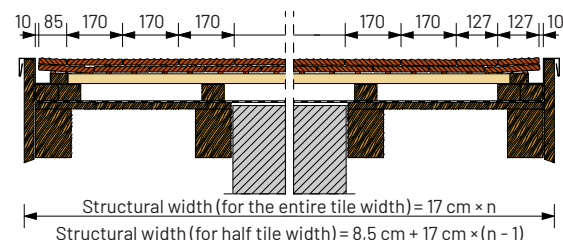
380 mm	Covering windth	170 mm				
		<30°	30°-50°	35°-40°	40°-45°	45°<
	Covering length	145 mm	150 mm	155 mm	160 mm	160 mm
	Requirement	40,6 pcs/m ²	39,3 pcs/m ²	38 pcs/m ²	36,8 pcs/m ²	35,7 pcs/m ²
	Surface weight	85,26 kg/m ²	83,79 kg/m ²	79,8 kg/m ²	77,28 kg/m ²	74,97 kg/m ²
	Weight	2,1 kg/pcs				
	Packaging	6 pcs/package			480 pcs/pallet	
	Covering method	in binding, double cover, crown cover				
	Standard roof pitch	30°				

CASTA® "honeycomb" cut

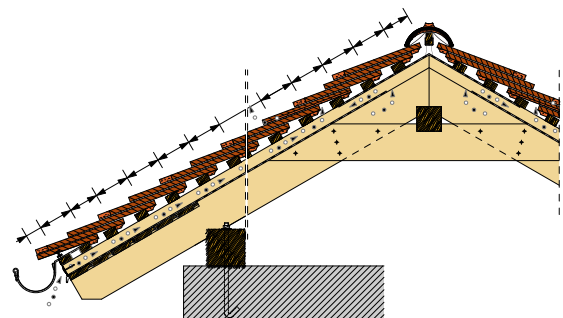


380 mm	Covering width	170 mm				
		<30°	30°-50°	35°-40°	40°-45°	45°<
	Covering length	145 mm	150 mm	155 mm	160 mm	160 mm
	Requirement	40,6 pcs/m ²	39,3 pcs/m ²	38 pcs/m ²	36,8 pcs/m ²	35,7 pcs/m ²
	Surface weight	85,26 kg/m ²	83,79 kg/m ²	79,8 kg/m ²	77,28 kg/m ²	74,97 kg/m ²
	Weight	2,1 kg/pcs				
	Packaging	6 pcs/package		480 pcs/pallet		
	Covering method	in binding, double cover, crown cover				
	Standard roof pitch	30°				

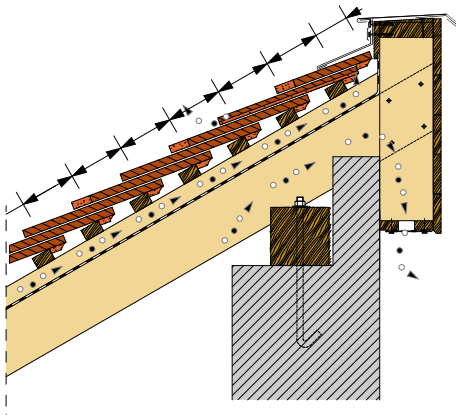
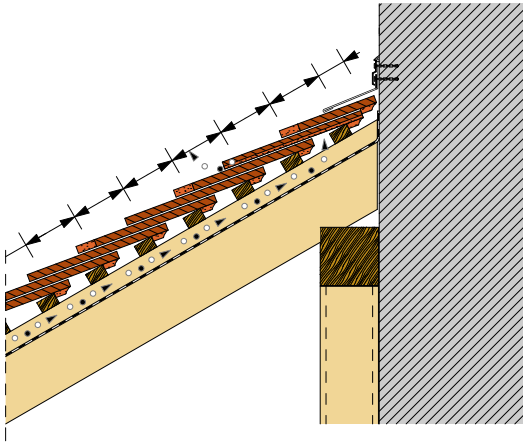
Unsupported underlayment	„ECO“	≥°
Windproof underlayment	„BASIC“	≥°
Watertight underlayment	„PRO“	≥°
Waterproof underlayment	„ULTRA“	≥°



Requirement for covering width					Requirement for covering length						
Ventilation tile					3/4 tile						
Cc. 5,9 pcs/m					Cc. 6,2 - 7,0 pcs/m						
„BZ“ ridge tile (3,0 pcs/m) and 30x50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	X	X	90	85	80	75	75	75	75	80	X



	Out-ventilation cross-section	Ventilated rafter lengths
Ventilation tile LQ9	cm²/m	Cc. m
Every tile is ventilation tile	cm²/m	Cc. m
Every second tile is ventilation tile	cm²/m	Cc. m
Every third tile is ventilation tile	cm²/m	Cc. m

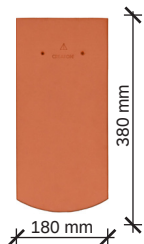


KLASSIK® rounded cut



Covering width	180 mm				
	<30°	30°-35°	35°-40°	40°-45°	45°<
Covering length	145 mm	150 mm	155 mm	160 mm	165 mm
Requirement	38,3 pcs/m²	37,0 pcs/m²	35,8 pcs/m²	34,7 pcs/m²	33,6 pcs/m²
Surface weight	68,9 kg/m²	66,6 kg/m²	64,4 kg/m²	62,5 kg/m²	60,5 kg/m²
Weight	1,8 kg/pcs				
Packaging	8 pcs/package			480 pcs/pallet	
Standard roof pitch	30°				

AMBIENTE® segment cut



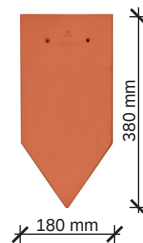
Covering width	180 mm				
	<30°	30°-35°	35°-40°	40°-45°	45°<
Covering length	145 mm	150 mm	155 mm	160 mm	165 mm
Requirement	38,3 pcs/m²	37,0 pcs/m²	35,8 pcs/m²	34,7 pcs/m²	33,6 pcs/m²
Surface weight	72,8 kg/m²	70,3 kg/m²	68,0 kg/m²	65,9 kg/m²	63,8 kg/m²
Weight	1,9 kg/pcs				
Packaging	8 pcs/package			480 pcs/pallet	
Standard roof pitch	30°				

AMBIENTE® straight cut



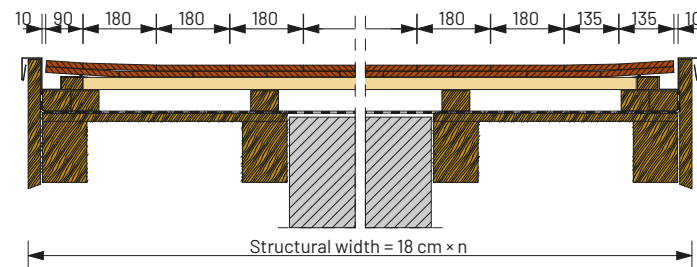
Covering width	180 mm				
	<30°	30°-35°	35°-40°	40°-45°	45°<
Covering length	145 mm	150 mm	155 mm	160 mm	165 mm
Requirement	38,3 pcs/m ²	37,0 pcs/m ²	35,8 pcs/m ²	34,7 pcs/m ²	33,6 pcs/m ²
Surface weight	72,8 kg/m ²	70,3 kg/m ²	68,0 kg/m ²	65,9 kg/m ²	63,8 kg/m ²
Weight	1,9 kg/pcs				
Packaging	8 pcs/package			480 pcs/pallet	
Standard roof pitch	30°				

AMBIENTE® pointed cut



Covering width	180 mm				
	<30°	30°-35°	35°-40°	40°-45°	45°<
Covering length	145 mm	150 mm	155 mm	160 mm	165 mm
Requirement	38,3 pcs/m ²	37,0 pcs/m ²	35,8 pcs/m ²	34,7 pcs/m ²	33,6 pcs/m ²
Surface weight	65,1 kg/m ²	62,9 kg/m ²	60,9 kg/m ²	59,0 kg/m ²	57,1 kg/m ²
Weight	1,7 kg/pcs				
Packaging	8 pcs/package		480 pcs/pallet		
Standard roof pitch	30°				

Unsupported underlayment	„ECO“	≥24°
Windproof underlayment	„BASIC“	≥22°
Watertight underlayment	„PRO“	≥18°
Waterproof underlayment	„ULTRA“	≥10°



Requirement for covering width

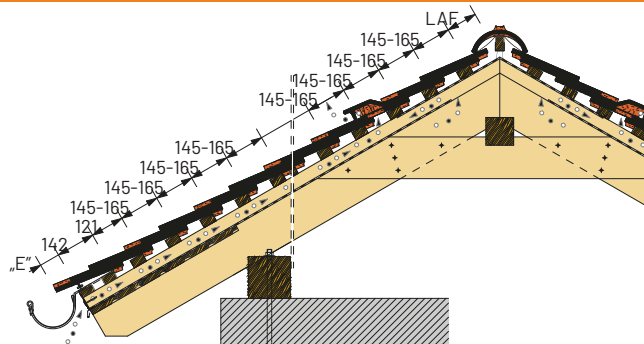
Ventilation tile

Cc. 5,5 pcs/m

Requirement for covering length

3/4 tile

Cc. 6,2-7,0 cs/m

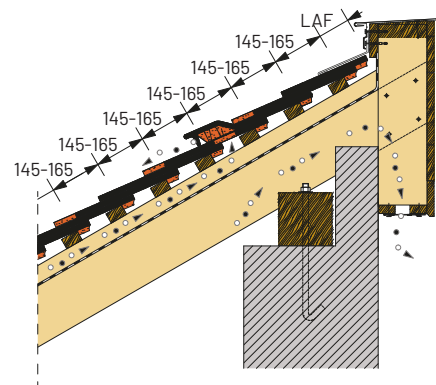
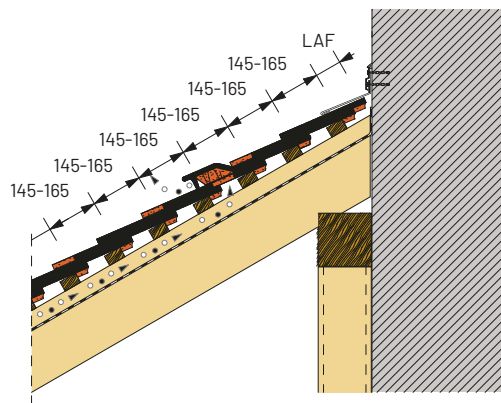


„BZ“ ridge tile (3,0 pcs/m) and 30×50 roof batten

Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	X	X	90	85	80	75	75	75	75	80	X

„BZ“ ridge tile (3,0 pcs/m) and 40×60 roof batten

Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
LAF [mm]	X	X	85	80	75	70	70	65	60	65	X

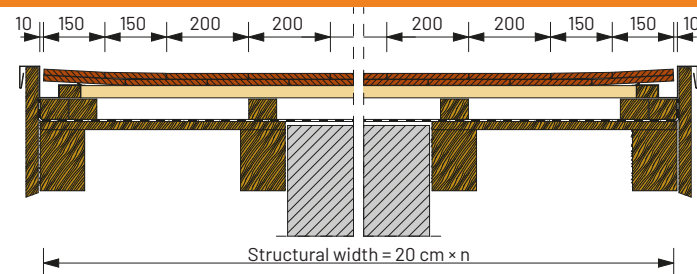


	Out-ventilation cross-section	Ventilated rafter lengths
Ventilation tile LQ10	55,56 cm ² /m	Cc. 11 m
Ventilation tile LQ25	25 cm ² /pcs	
Every tile is ventilation tile	137,5 cm ² /m	Cc. 27,2 m
Every second tile is ventilation tile	68,8 cm ² /m	Cc. 13,6 m
Every third tile is ventilation tile	45,8 cm ² /m	Cc. 9,1 m

20×40 rounded cut „Austrian plain tile“

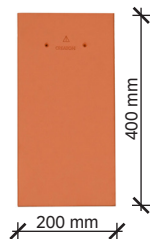


Covering width	200 mm				
	<30°	30°-35°	35°-40°	40°-45°	45°<
Covering length	155 mm	160 mm	165 mm	170 mm	175 mm
Requirement	32,3 pcs/m ²	31,3 pcs/m ²	30,4 pcs/m ²	29,5 pcs/m ²	28,6 pcs/m ²
Surface weight	71,1 kg/m ²	68,9 kg/m ²	66,9 kg/m ²	64,9 kg/m ²	62,9 kg/m ²
Weight	2,2 kg/pcs				
Packaging	8 pcs/package			480 pcs/pallet	
Standard roof pitch	30°				

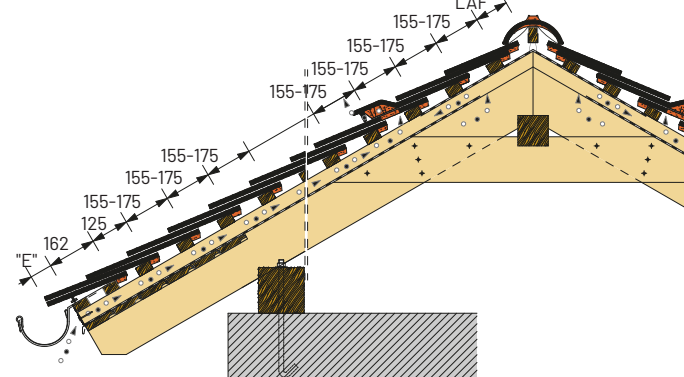


Requirement for covering width	Requirement for covering length
Ventilation tile	3/4 tile
Cc. 5,0 pcs/m	Cc. 5,9 - 6,9 pcs/m

20×40 straight cut „Vienna bag“

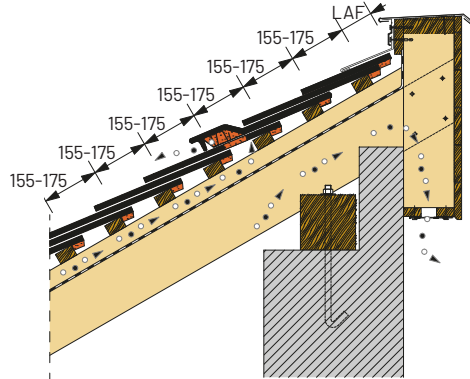
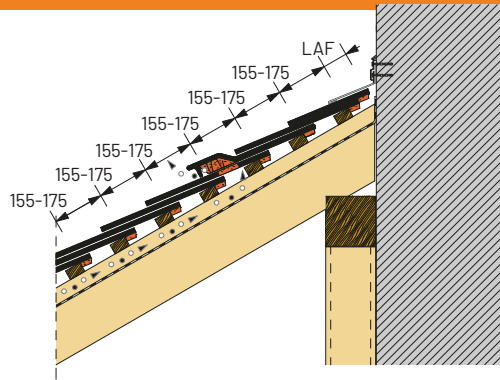


Covering width	200 mm				
	<30°	30°-35°	35°-40°	40°-45°	45°<
Covering length	155 mm	160 mm	165 mm	170mm	175 mm
Requirement	32,3 pcs/m ²	31,3 pcs/m ²	30,4 pcs/m ²	29,5 pcs/m ²	28,6 pcs/m ²
Surface weight	74,6 kg/m ²	72,3 kg/m ²	70,2 kg/m ²	68,2 kg/m ²	66,1 kg/m ²
Weight	2,3 kg/pcs				
Packaging	8 pcs/package		480 pcs/pallet		
Standard roof pitch	30°				



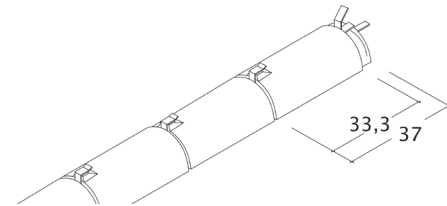
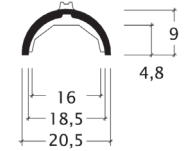
„BZ“ ridge tile (3,0 pcs/m) and 30×50 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°

„BZ“ ridge tile (3,0 pcs/m) and 40×60 roof batten											
Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°

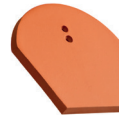


	Out-ventilation cross-section	Ventilated rafter lengths
Ventilation tile LQ10	50,0 cm ² /m	Cc. 10 m
Ventilation tile LQ25	25 cm ² /pcs	
Every tile is ventilation tile	125 cm ² /m	Cc. 25,0 m
Every second tile is ventilation tile	62,5 cm ² /m	Cc. 12,5 m
Every third tile is ventilation tile	41,7 cm ² /m	Cc. 8,3 m

„BZ“ ridge tile 3,0 pcs/m



Closing plate



Hip starter



3 way hip cap tile



4 way hip cap tile



INTERLOCKING ROOF TILES

Batten distance [mm] overview 1.) The corner of the verge tile should be cutted in the marked range!															
Model	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450
„BALANCE“															
„TITANIA“															
„NOMINA“															
„SIMPLA“															
„RAPIDO“															
„MAXIMA PRO“															

SIDE INTERLOCKING PLAIN TILES

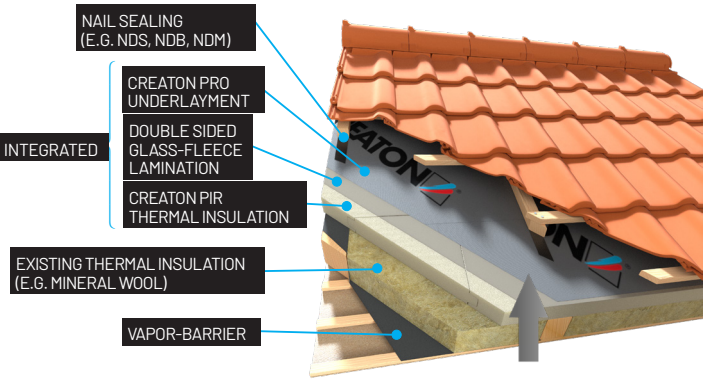
Batten distance [mm] overview The batten distance should be chosen according to the roof pitch!															
Model	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340
„Hortobágy“															
„RONA segment cut“															
„RONA straight cut“															

PLAIN ROOF TILES

Batten distance [mm] overview The batten distance should be chosen according to the roof pitch!															
Model	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240
18x38 double cover															
20x40 double cover															
Batten distance [mm] overview The batten distance should be chosen according to the roof pitch!															
Model	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360
18x38 crown cover															
20x40 crown cover															

swisspor PIR TETTO Classic

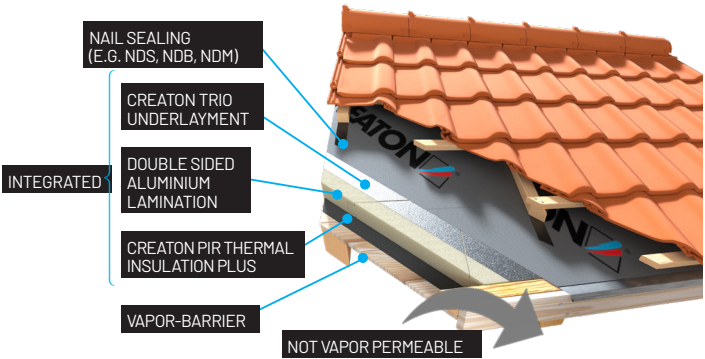
swisspor PIR is primarily recommended for the renovation of existing roof structures as an additional thermal insulation layer. Thanks to the special vapor-permeable coating of the boards, they enable the moisture in the rafters and in the existing thermal insulation between the rafters to migrate.



Thickness	Heat conductivity	Thermal transmittance	Packaging*	Surface	Weight
[mm]	λ [W/mK]	U [W/(m²K)]	(board/package)	(m²/package)	(kg/package)
50	0,025	0,417	24	69,69	127,84
80	0,025	0,272	15	43,55	125,05
100	0,025	0,223	12	34,84	124,96
120	0,024	0,183	10	29,04	125
140	0,024	0,158	8	23,23	127,36
160	0,024	0,14	7	20,33	117,31
180	0,024	0,125	6	17,42	113,5
200	0,024	0,114	6	17,42	125,02
220	0,024	0,104	5	14,52	115,4
240	0,024	0,095	5	14,52	125

swisspor PIR TETTO Alu

swisspor PIR PLUS offers an ideal solution for all new pitched roofs. On both sides of the boards, there is an aluminum coating (associated layer), which retains the warm heat rays leaving the interior in winter, and reflects the external solar radiation in summer.



Thickness	Heat conductivity	Thermal transmittance	Packaging*	Surface	Weight
[mm]	λ [W/mK]	U [W/(m²K)]	(board/package)	(m²/package)	(kg/package)
80	0,022	0,243	15	43,55	125,05
100	0,022	0,199	12	34,84	124,96
120	0,022	0,169	10	29,04	125
140	0,022	0,146	8	23,23	127,36
160	0,022	0,129	7	20,33	117,31
180	0,022	0,115	6	17,42	113,5
200	0,022	0,105	6	17,42	125,02
220	0,022	0,095	5	14,52	115,4
240	0,022	0,088	5	14,52	125
240	0,024	0,095	5	14,52	125

swisspor PIR TETTO Classic Difuplan

swisspor PIR TETTO Alu Difuplan



FIX AND GATHER LOAD FROM THE COUNTER BATTEN

RELIEVE THE LOAD AGAINST THE PIR BOARD

FIX AND GIVE THE LOAD TO THE RAFTER

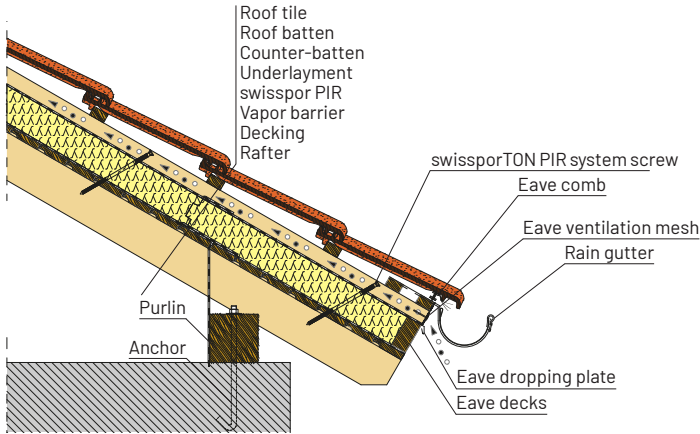
Special screws has to used to secure the insulation between the counter batten the rafters.
Due to the more favorable load transfer, the screws must be screwed in at an angle of 67° with the counter batten!
The min. size of the counter batten has to be 40 x 60 mm! Pre-drilling of the counter batten is not necessary.

Thickness of the thermal insulation [mm]	Screw size	Article number	Packaging (pcs/package)
50	8 x 165 ⁽¹⁾	4061957	50
80	8 x 225 ⁽²⁾	4061958	50
100	8 x 255 ⁽²⁾	4061959	50
120	8 x 275 ⁽²⁾	4064530	50
140	8 x 302 ⁽²⁾	4061960	50
160	8 x 302 ⁽²⁾	4061960	50
180	8 x 335 ⁽²⁾	4061961	50
200	8 x 365 ⁽²⁾	4061962	50
220	8 x 397 ⁽²⁾	4061963	50

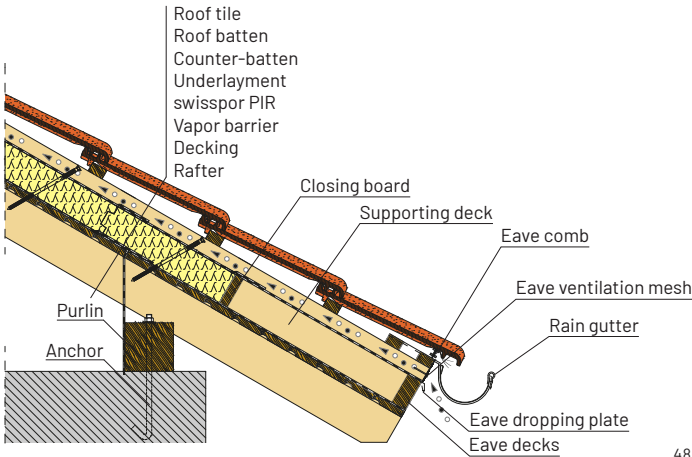
⁽¹⁾The length of the screws are determined for 50 mm counter-batten height.
⁽²⁾The length of the screws are determined for 19 mm thick decks and 50 mm counter-batten height.

„SKL“ ADHESIVE	„NDS“ NAIL SEALING	„NDB“ NAIL SEALING	„NDM“ NAIL SEALING	„UAB“ CONNECTION TAPE
For gluing foil connections	For sealing the nail holes	For sealing the nail holes	For sealing the nail holes	For underlay connection

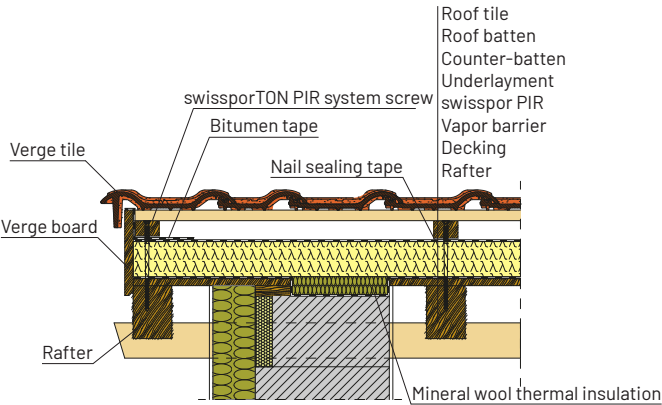
EAVE DETAIL FOR SMALL OVERHANG



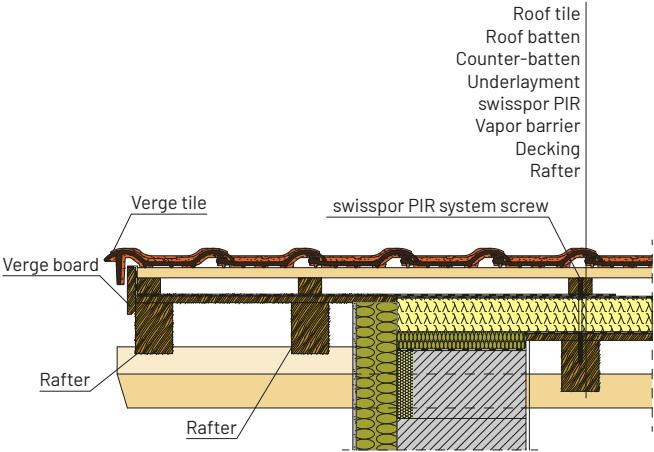
EAVE DETAIL FOR LARGE OVERHANG



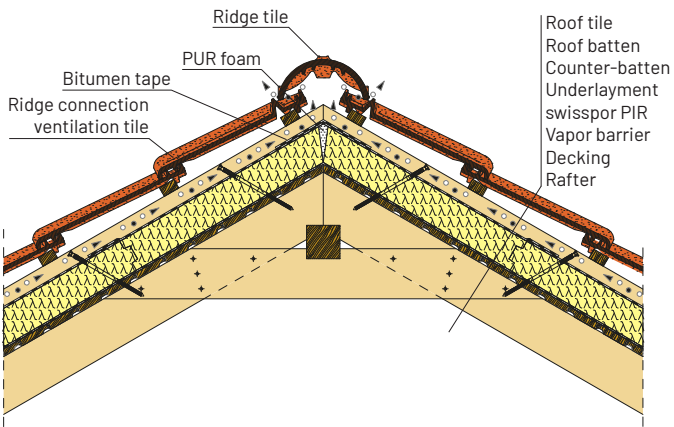
VERGE DETAIL FOR SMALL OVERHANG



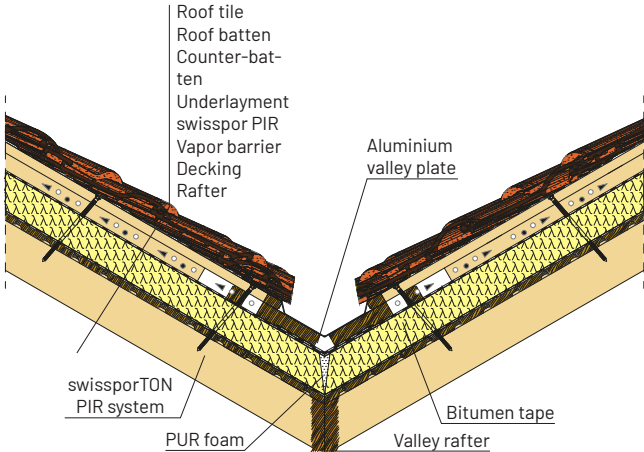
VERGE DETAIL FOR LARGE OVERHANG



HIP AND RIDGE DETAIL



VALLEY DETAIL

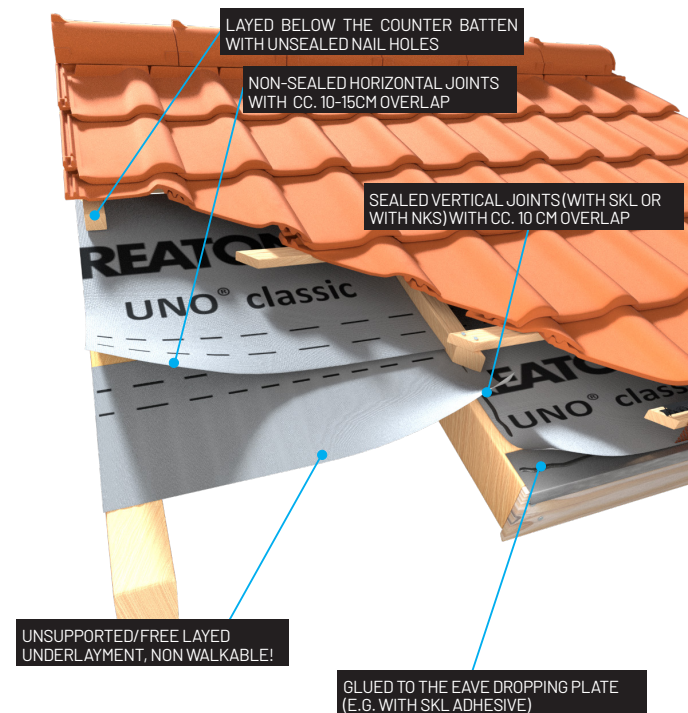


swissporTON ECO

3-layer vapor permeable roof foil: microporous PP membrane between the outer and inner PP protective film.

It is suitable for unsupported and free layed underlays.

The ECO roofing membrane is not suitable for laying on decking.



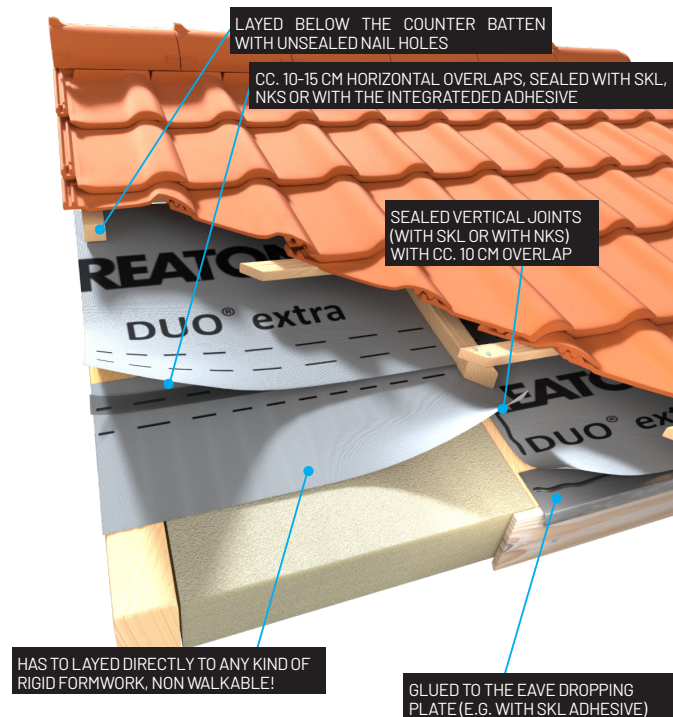
swissporTON BASIC

3-layer vapor permeable roof foil: microporous PP membrane between the outer and inner PP protective film.

It is suitable for windproof, unsupported and free layed underlays.

The two integrated adhesive strip for the easy and economical installation.

It has to be installed with sealed overlaps, on the top of a completed formwork such as rigid insulation. Can not be considered as a walkable underlayment!



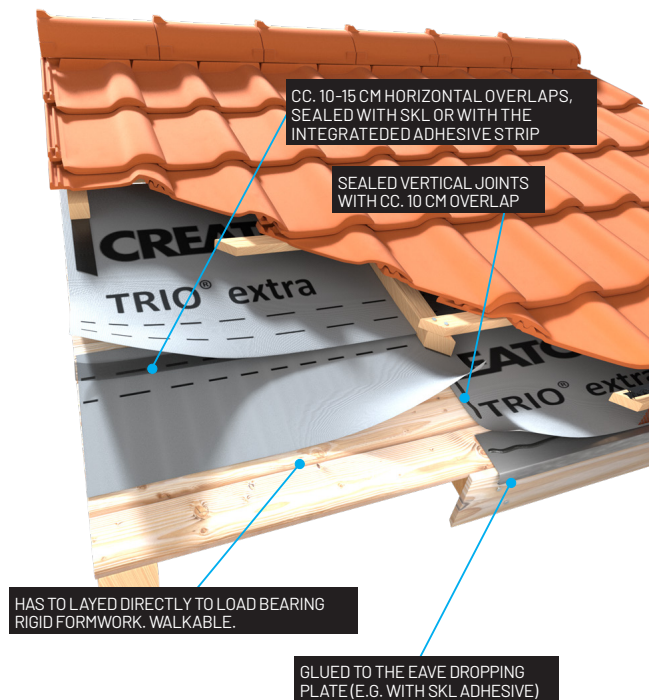
swissporTON PRO

4 layered underlayment: PP vapor permeable membrane and reinforcing mesh between the two PP protective non-woven layer.

Suitable for waterproof, windproof, unsupported and free layed application.

The two integrated adhesive strip for the easy and economical installation.

It has to be installed with sealed overlaps, on the top of a completed formwork such as rigid insulation. Can not be considered as a walkable underlayment!

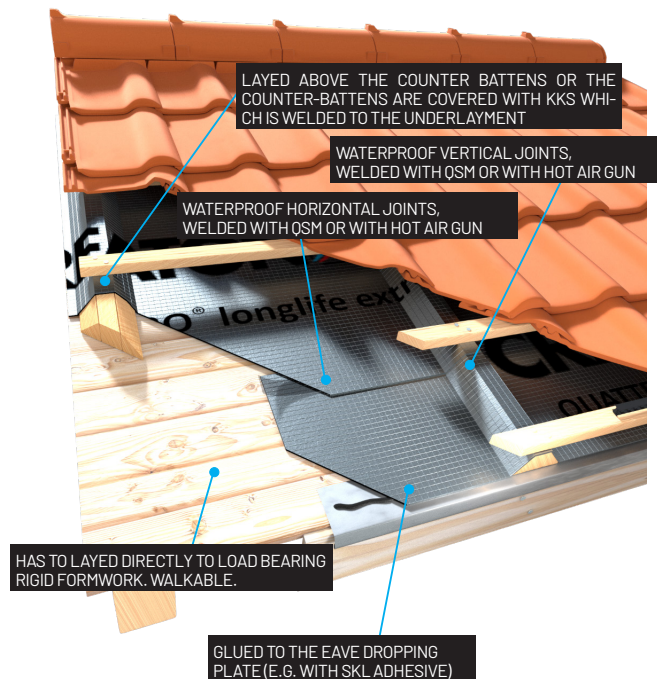


swissporTON ULTRA

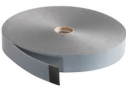
Can be used as a waterproof underlayment for single- or double ventilated roof structures. Can be used as a waterproof underlayment on a rigid formwork (such as wooden decking) with welded joints.

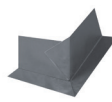
Multi layered vapor permeable underlayment: TPU copolymer coating in both side and PES fleece in the middle.

TPU coating for more effective welding, and more durable against mechanical effects. The additional adhesive tape on the back makes the installation easier.



Model	DIN	swisspor	„ECO“	„BASIC“	„PRO“	„ULTRA“
„BALANCE“	22°		16°	14°	12°	10°
„RAPIDO“	22°		18°	16°	14°	10°
„NOMINA“	22°		18°	16°	14°	10°
„TITANIA“	22°		16°	14°	12°	10°
„SIMPLA“	22°		18°	16°	14°	10°
„MAXIMA PRO“	22°		16°	14°	12°	10°
„Hortobágy“	35°	30°	24°	22°	18°	10°
„RONA“	35°	30°	24°	22°	18°	10°
„KLASSIK“	30°	30°	24°	22°	18°	10°
„AMBIENTE“	30°	30°	24°	22°	18°	10°

	Adhesive	
	For foil seams and for other connections.	cc. 19 m adhesion
	Seam adhesive tape	
	To seal longitudinal and transverse seams.	50 mm wide 25 m/roll
	Nail sealing tape	
	To seal nail holes below the counter battens.	Butyl raw material 50 mm wide 10 m/roll
	Nail sealing tape	
	To seal nail holes below the counter battens.	PE raw material 60 mm wide 30 m/roll

	Nail sealing mastic	
	To seal nail holes below the counter battens.	1000 ml/tube cc. 50 m counter-battens
	Connection tape	
	For sealing connections (e.g. wall edges).	25 cm wide 5 m/roll
	Welding liquid & bottle	
	For welding the longitudinal and transverse joints of ULTRA.	1000 ml/canister 1 liter per cc. 200 m² roof surface
	„ULTRA“ hot air gun	
	For welding the longitudinal and transverse joints of ULTRA.	
	Counter-batten tape	
	To cover the counter batten for welded waterproof underlays.	30 cm wide 20 m/roll
	„ULTRA“ external corner	
	For waterproof wall corner joint.	

UNDERLAYMENTS

Accessories	ECO® classic	"BASIC"	"PRO"	"ULTRA"
Adhesive	✓	✓	✓	✓
Seam adhesive tape	✓	✓	✗	✗
Nail sealing tape	✓	✓	✓	✓
Nail sealing tape	✓	✓	✓	✗
Nail sealing mastic	✓	✓	✓	✗
Connection tape	✓	✓	✓	✗
Welding liquid & bottle	✗	✗	✗	✓
"ULTRA" hot air gun	✗	✗	✗	✓
Counter-batten tape	✗	✗	✗	✓
"ULTRA" external corner	✗	✗	✗	✓

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.



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