



TECHNICAL DATA 2022

Facts and figures, covering sizes and roof divisions

SPECIAL SHAPED TILES – ORDER OPTIONS

Laumans produces accessories and special tiles tailored according to your requirements. For prices, delivery times as well as colour and surface qualities and quantities contact our sales team. If you have any questions, please contact your Laumans representative or call us directly at: **+49 2157 14130**.

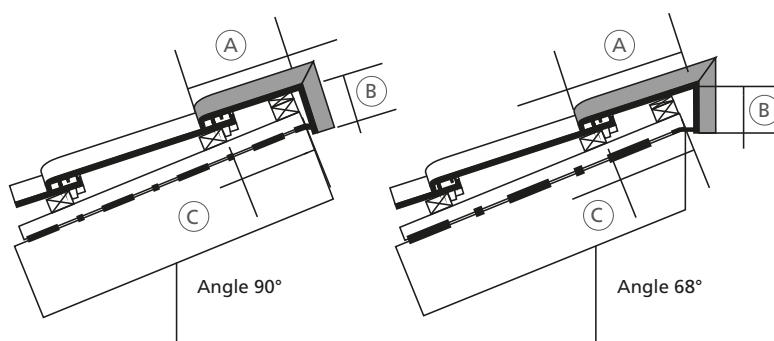
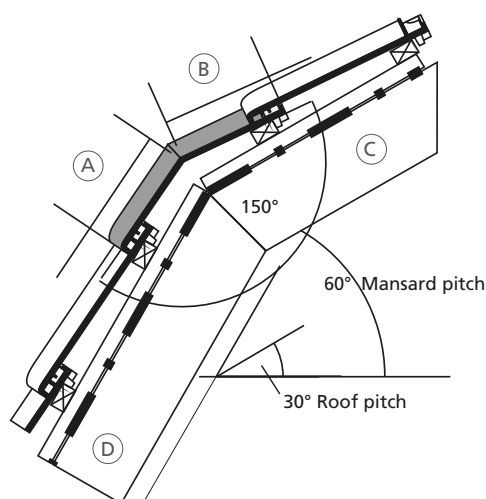
IT'S THAT EASY:

- Copy, fill in and fax to **+49 2157 141339**.
- Copy, fill in and send as a photo or scan by e-mail to **info@laumans.de**.
- Download this form on laumans.de/download/#sonderziegel as PDF, fill it in directly on the computer*, save it and send it by e-mail to **info@laumans.de**.

* You need the free program Adobe Acrobat Reader

Mansard tile

Shed roof tile



Standard-Side length A = 220 mm, B = 100 mm

Please tick off the corresponding box and fill in the following table:

All measurements are only approximate! The production takes place only after the approval of a sample produced by Laumans.

☐ **Mansard tile**

☐ **Shed roof tile 90° angle**

☐ **Shed roof tile 68° angle**

A Side length: Dimensions in mm
B Side length: Dimensions in mm
C Roof pitch: Angle in degrees
D Mansard pitch: Only mansard tile

Roof tile model:

☐ IDEALVARIABLE

☐ TIEFA XLTOP®

☐ MULDENVARIABLE

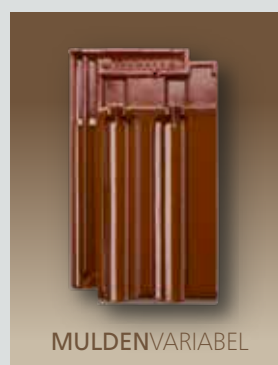
☐ RHEINLANDVARIABLE

Number of pieces:

Colour:

Company	Project
Surname	First name
ZIP / City	Street
Phone	E-Mail

TECHNICALLY PERFECT – VISUALLY ACCOMPLISHED. LAUMANS PREMIUM ROOF TILES.



ROOF TILE MODEL	FORMAT mm, approx.	COVERING LENGTH mm, approx.	COVERING WIDTH mm, approx.	REQUIRED pieces per m ² approx.	WEIGHT kg per piece, approx.	WEIGHT kg per m ² , approx.	MINIMUM ROOF PITCH ¹	STANDARD ROOF PITCH	PACKAGE CONTENTS europallet
IDEALVARIABEL	ca. 415 x 250	ca. 332–347	ca. 204	from ca. 14,2	ca. 3,4 kg	47,9–50,3 kg	14°	22°	280 Stk.
TIEFA XLTOP®	ca. 420 x 284	ca. 340–360	ca. 230	from ca. 12,2	ca. 3,7 kg	44,8–47,4 kg	12°	22°	240 Stk.
RHEINLANDVARIABEL	ca. 415 x 245	ca. 330–350	ca. 200	from ca. 14,3	ca. 3,7 kg	52,9–56,2 kg	17°	25°	300 Stk.
MULDENVARIABEL	ca. 415 x 245	ca. 330–350	ca. 200	from ca. 14,3	ca. 3,7 kg	52,9–56,2 kg	17°	25°	300 Stk.
HOHLPFANNE	ca. 405 x 247	ca. 330	ca. 220	from ca. 13,8	ca. 2,9 kg	ca. 40 kg	30°	40°	252 Stk.

¹ If the regular roof pitch is undershot, the substructure must be executed with increased requirements

COVERING LENGTH

370 mm							
360 mm							
350 mm		TIEFA XL TOP®					
340 mm			IDEAL VARIABEL	RHEINLAND VARIABEL	MULDEN VARIABEL	HOHL PFANNE	
330 mm							
320 mm							

IDEALVARIABEL

DYNAMIC, ELEGANT HOLLOW INTERLOCKING TILE

Dimensions: 415 x 250 x 55 mm

Covering length: approx. 339 mm (approx. 332–347 mm)

Covering width: approx. 204 mm

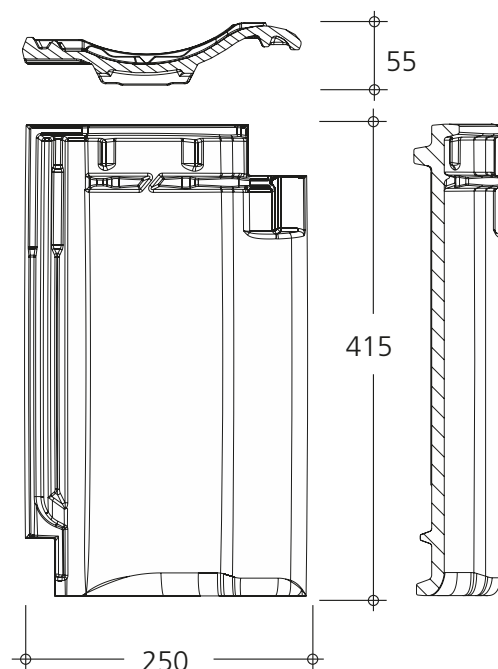
Required: from approx. 14,2 pcs./m²

Weight per pc./ per m²: approx. 3,4 kg / 47,9–50,3 kg

Minimum roof pitch¹: 14°

Standard roof pitch: 22°

Package contents: 280 pcs. in 40 bundles of 7 on europallet



AVAILABLE COLOURS AND SURFACES

NATURAL FIRING: natural red

NATURAL ENGOBES: antique, red, xenon grey

SINTER ENGOBES: black

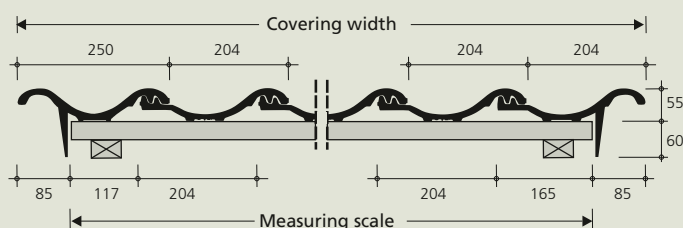
BRILLIANT GLAZES: black, dark azure, ochre brown, malachite green

TREND GLAZES: satin black, satin grey

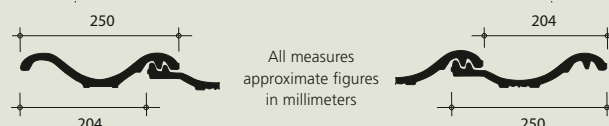
EVALUATION/SIZING OF THE COVERING WIDTH



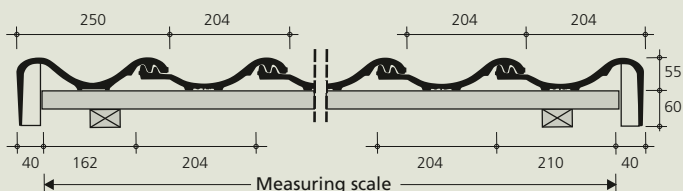
A: Verge tile with interior baulk



B: Double brim tile



C: Verge tile with exterior baulk



Tile clips for storm protection

409-221 Clipholster® to batter in ZIAL

456-207 Clipholster® to hang onto batten size 30 x 50 mm ZIAL

456-015 for batten size 40 x 60 mm ZIAL

Storm clip assignment

Also use our free online tool for

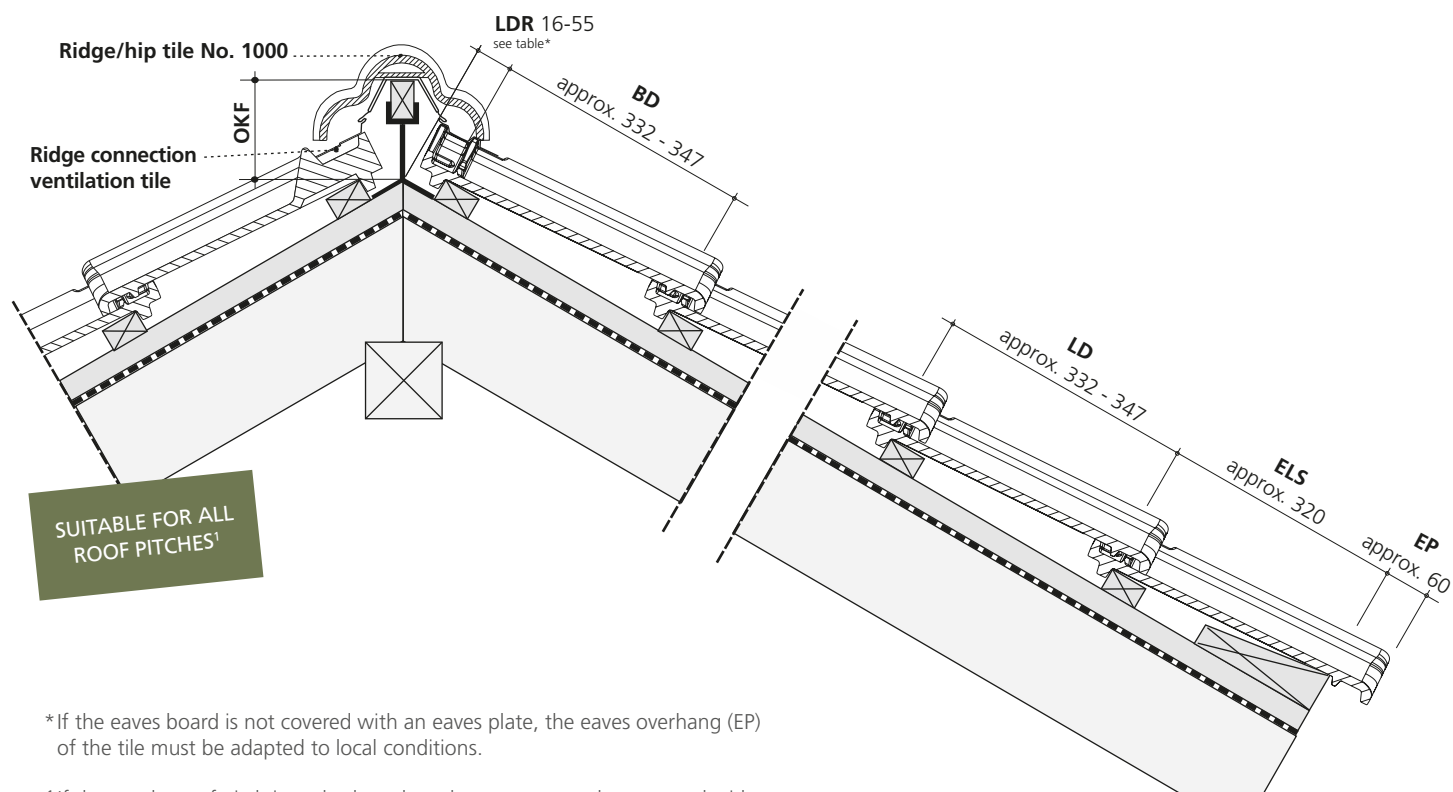
wind suction calculator and storm clip assignment.

<http://www.laumans.de/en/windsog/>

Average covering width in rows without respectively with roof tile in mm construction width = respective measuring scale

ROWS		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Roof tile (RT)		204	408	612	816	1.020	1.224	1.428	1.632	1.836	2.040	2.244	2.448	2.652	2.856	3.060
Double brim tile + RT	204	250	-	-	658	862	1.066	1.270	1.474	1.678	1.882	2.086	2.290	2.494	2.698	2.902
Verge tile l./r. (interior baulk) + RT	117	165	-	-	486	690	894	1.098	1.302	1.506	1.710	1.914	2.118	2.322	2.526	2.730
Verge tile l./r. (exterior baulk) + RT	162	210	-	-	576	780	984	1.188	1.392	1.596	1.800	2.004	2.208	2.412	2.616	2.820

ROWS		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Roof tile (RT)		3.264	3.468	3.672	3.876	4.080	4.284	4.488	4.692	4.896	5.100	5.304	5.508	5.712	5.916	6.120
Double brim tile + RT		3.310	3.514	3.718	3.922	4.126	4.330	4.534	4.738	4.942	5.146	5.350	5.554	5.758	5.962	6.166
Verge tile l./r. (interior baulk) + RT		3.138	3.342	3.546	3.750	3.954	4.158	4.362	4.566	4.770	4.974	5.178	5.382	5.586	5.790	5.994
Verge tile l./r. (exterior baulk) + RT		3.228	3.432	3.636	3.840	4.044	4.248	4.452	4.656	4.860	5.064	5.268	5.472	5.676	5.880	6.084



* If the eaves board is not covered with an eaves plate, the eaves overhang (EP) of the tile must be adapted to local conditions.

¹ If the regular roof pitch is undershot, the substructure must be executed with increased requirements

EVALUATION/SIZING OF THE RAFTER LENGTH

Eaves overhang (EP) 60 mm: number of rows (according to chart) + lath distance eaves (ELS) + lath distance ridge (LDR)

Covering length

ROWS	01	02	03	04	05	06	07	08	09	10
COVER- ING LENGHT in mm	332	664	996	1.328	1.660	1.992	2.324	2.656	2.988	3.320
	340	680	1.020	1.360	1.700	2.040	2.380	2.720	3.060	3.400
	347	694	1.041	1.388	1.735	2.082	2.429	2.776	3.060	3.470
	11	12	13	14	15	16	17	18	19	20
COVER- ING LENGHT in mm	3.652	3.984	4.316	4.648	4.980	5.312	5.644	5.976	6.308	6.640
	3.740	4.080	4.420	4.760	5.100	5.440	5.780	6.120	6.460	6.800
	3.817	4.164	4.511	4.858	5.205	5.552	5.899	6.246	6.593	6.940
ROWS	21	22	23	24	25	26	27	28	29	30
COVER- ING LENGHT in mm	6.972	7.304	7.304	7.968	8.300	8.632	8.964	9.296	9.628	9.960
	7.140	7.480	7.480	8.160	8.500	8.840	9.180	9.520	9.860	10.200
	7.287	7.634	7.634	8.328	8.675	9.022	9.369	9.716	10.063	10.410

Further available fitting tiles

Term	Covering width/Measuring scale
Ventilation tile, ventilation approx. 15 cm²	204 mm
Vent pipe/antenna opening tile	204 mm
Solar connection tile, admission max. 65 mm Ø	204 mm
Unter-ridge ventilation tile	204 mm
Unter-ridge ventilation verge tile left, interior baulk	117 mm
Unter-ridge ventilation verge tile right, interior baulk	165 mm
Shed roof tile 90°, side length 220/100 mm	204 mm
Shed roof verge tile left, interior baulk	250 mm / 117 mm
Shed roof verge tile right, interior baulk	204 mm / 165 mm

Shed roof tiles with different slopes and measures, mansard tiles etc. on request.

For ridge / hip tile and accessories, see pages 14–15

All values are determined with a 30 x 50 mm lathing. If other slat cross sections are used, than these must be checked at the construction site beforehand!

The accurate lath spacing has to be determined at the building site with the delivered tiles.

Lath distance ridge (LDR)

Using roof tiles				
Roof pitch	20°	30°	40°	50°
Ridge No. 1000	55 mm	45 mm	25 mm	20 mm
Ridge No. 300	55 mm	30 mm	25 mm	16 mm
Using ridge inlay				
Roof pitch	20°	30°	40°	50°
Ridge No. 1000	70 mm	45 mm	45 mm	20 mm
Ridge No. 300	40 mm	45 mm	33 mm	25 mm

Distance from ridge vertex / Top of ridge lath (OKF):

Using roof tiles				
Roof pitch	20°	30°	40°	50°
Ridge No. 1000	150 mm	140 mm	125 mm	115 mm
Ridge No. 300	150 mm	130 mm	125 mm	110 mm
Using ridge inlay				
Roof pitch	20°	30°	40°	50°
Ridge No. 1000	145 mm	130 mm	125 mm	120 mm
Ridge No. 300	145 mm	130 mm	125 mm	120 mm

TIEFA XLTOP®

ECONOMIC, FLEXIBLE FLAT ROOF TILE

Dimensions: 420 x 284 x 50 mm

Covering length: approx. 350 mm (approx. 340–360 mm)

Covering width: approx. 230 mm

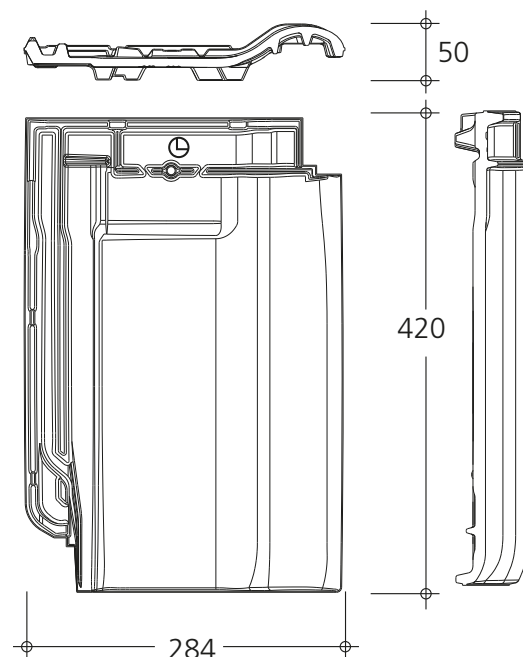
Required: from approx. 12,2 pcs./m²

Weight per pc./ per m²: approx. 3,7 kg / 44,8–47,4 kg

Minimum roof pitch¹: 12°

Standard roof pitch: 22°

Package contents: 240 pcs. in 40 bundles of 6 on europallet



AVAILABLE COLOURS AND SURFACES

NATURAL ENGOBES: antique, red, rustique, xenon grey

SINTER ENGOBES: black, grey, copper red, brown

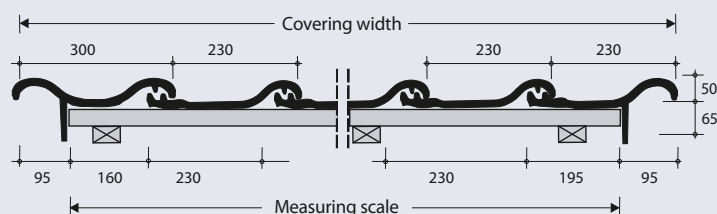
BRILLIANT GLAZES: black, coral red, dark azure, malachite green

TREND GLAZES: satin black, satin grey

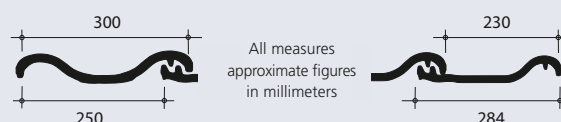
EVALUATION/SIZING OF THE COVERING WIDTH



A: Verge tile with interior baulk



B: Double brim tile



Tile clips for storm protection

409-221 Clipholster® to batter in ZIAL

456-205 Clipholster® to hang onto batten size 30 x 50 ZIAL

456-213 Clipholster® for batten size 40 x 60 ZIAL

Storm clip assignment

Also use our free online tool for

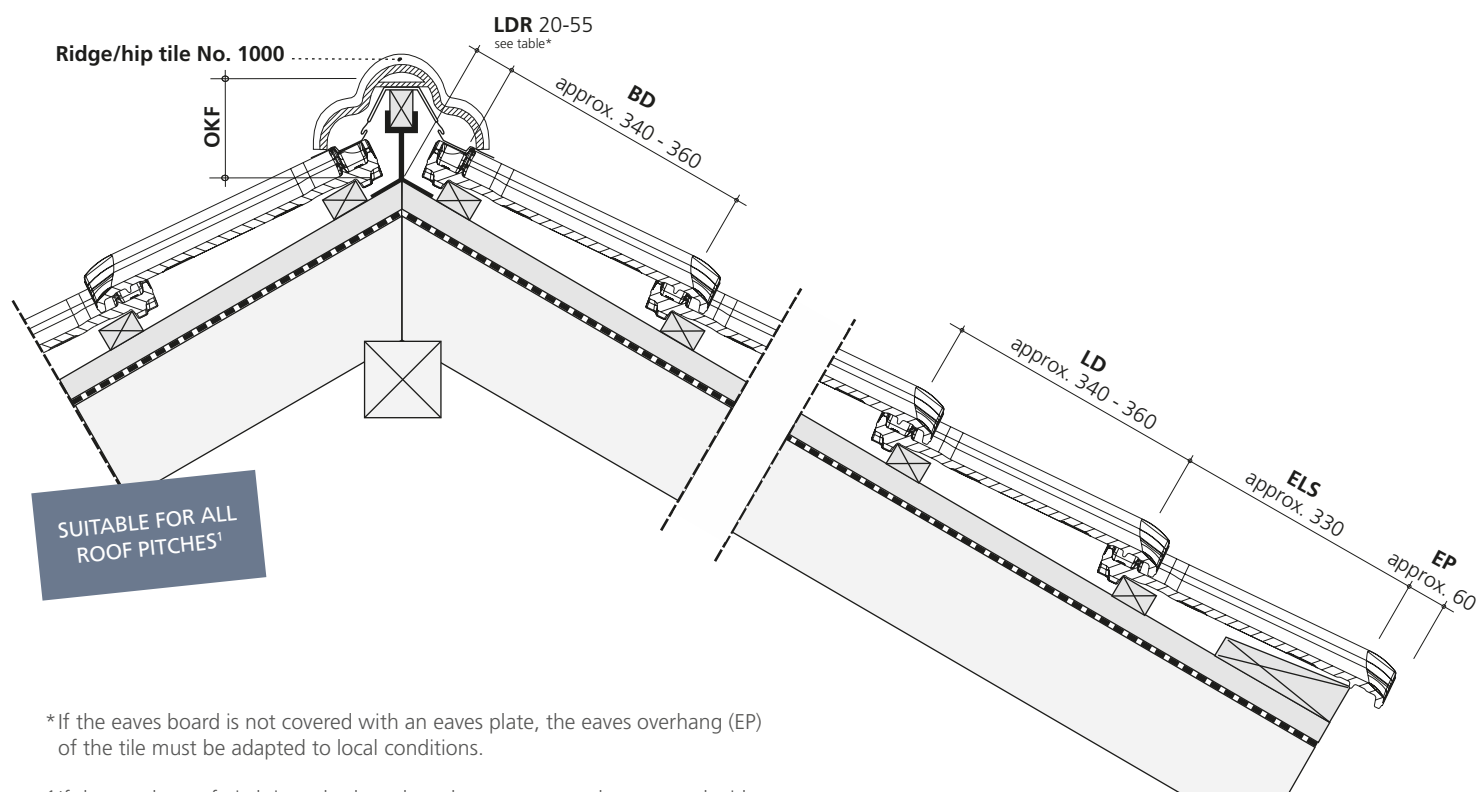
wind suction calculator and storm clip assignment.

<http://www.laumans.de/en/windsog/>

Average covering width in rows without respectively with roof tile in mm construction width = respective measuring scale

REIHEN		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Roof tile (RT)		230	460	690	920	1.150	1.380	1.610	1.840	2.070	2.300	2.530	2.760	2.990	3.220	3.450
Double brim tile + RT	250 284	-	-	764	994	1.224	1.454	1.684	1.914	2.144	2.374	2.604	2.834	3.064	3.294	3.524
Verge tile l./r. (interior baulk) + RT	160 195	-	-	585	815	1.045	1.275	1.505	1.735	1.965	2.195	2.425	2.655	2.885	3.115	3.345

REIHEN		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Roof tile (RT)		3.680	3.910	4.140	4.370	4.600	4.830	5.060	5.290	5.520	5.750	5.980	6.210	6.440	6.670	6.900
Double brim tile + RT		3.754	3.984	4.214	4.444	4.674	4.904	5.134	5.364	5.594	5.824	6.054	6.284	6.514	6.744	6.974
Verge tile l./r. (interior baulk) + RT		3.575	3.805	4.035	4.265	4.495	4.725	4.955	5.185	5.415	5.645	5.875	6.105	6.335	6.565	6.795



*If the eaves board is not covered with an eaves plate, the eaves overhang (EP) of the tile must be adapted to local conditions.

¹If the regular roof pitch is undershot, the substructure must be executed with increased requirements

EVALUATION/SIZING OF THE RAFTER LENGTH

Eaves overhang (EP) 60 mm: number of rows (according to chart) + lath distance eaves (ELS) + lath distance ridge (LDR)

Covering length

ROWS	01	02	03	04	05	06	07	08	09	10
COVER- ING LENGHT in mm	340	680	1.020	1.360	1.700	2.040	2.380	2.720	3.060	3.400
	350	700	1.050	1.400	1.750	2.100	2.450	2.800	3.150	3.500
	360	720	1.080	1.440	1.800	2.160	2.520	2.880	3.240	3.600
ROWS	11	12	13	14	15	16	17	18	19	20
COVER- ING LENGHT in mm	3.740	4.080	4.420	4.760	5.100	5.440	5.780	6.120	6.460	6.800
	3.850	4.200	4.550	4.900	5.250	5.600	5.950	6.300	6.650	7.000
	3.960	4.320	4.680	5.040	5.400	5.760	6.120	6.480	6.840	7.200
ROWS	21	22	23	24	25	26	27	28	29	30
COVER- ING LENGHT in mm	7.140	7.480	7.820	8.160	8.500	8.840	9.180	9.520	9.860	10.200
	7.350	7.700	8.050	8.400	8.750	9.100	9.450	9.800	10.150	10.500
	7.560	7.920	8.280	8.640	9.000	9.360	9.720	10.080	10.440	10.800

All values are determined with a 30 x 50 mm lathing. If other slat cross sections are used, than these must be checked at the construction site beforehand!

The accurate lath spacing has to be determined at the building site with the delivered tiles.

Lath distance ridge (LDR)

Using roof tiles				
Roof pitch	20°	30°	40°	50°
Ridge No. 1000	55 mm	50 mm	40 mm	29 mm
Ridge No. 300	55 mm	45 mm	35 mm	20 mm

Further available fitting tiles

Term	Covering width/Measuring scale
Half tile	115 mm
Ventilation tile, ventilation approx. 18 cm²	230 mm
Vent pipe/antenna opening tile	230 mm
Solar connection tile, admission max. 65 mm Ø	230 mm
Shed roof tile 90°, side length 220/100 mm	230 mm
Shed roof verge tile left	300 mm / 160 mm
Shed roof verge tile right	230 mm / 195 mm
Ridge inlay	

Distance from idge vertex / Top of ridge lath (OKF):

Using roof tiles				
Roof pitch	20°	30°	40°	50°
Ridge No. 1000	150 mm	130 mm	120 mm	105 mm
Ridge No. 300	140 mm	130 mm	120 mm	105 mm

Shed roof tiles with different slopes and measures, mansard tiles etc. on request.

For ridge / hip tile and accessories, see pages 14–15

RHEINLANDVARIABEL

CLASSIC, TIMELESS REFORM TILE

Dimension: 415 x 245 x 35 mm

Covering length: approx. 340 mm (approx. 330–350 mm)

Covering width: approx. 200 mm

Required: from approx. 14,3 pcs./m²

Weight per pc./ per m²: approx. 3,7 kg / 52,9–56,2 kg

Minimum roof pitch¹: 17°

Standard roof pitch: 25°

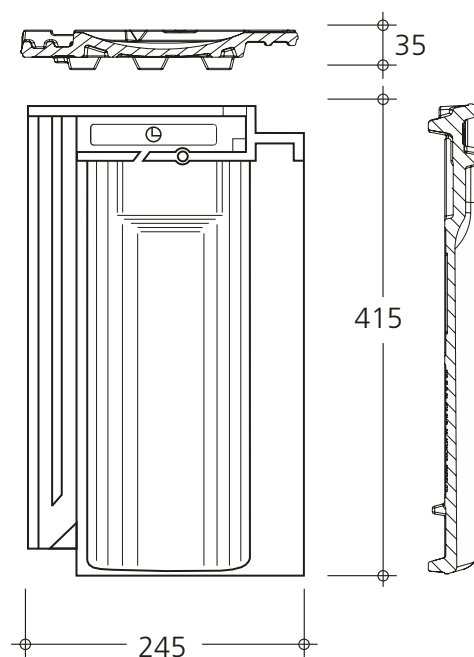
Package contents: 300 pcs. in 50 bundles of 6 on europallet

AVAILABLE COLOURS AND SURFACES

NATURAL FIRING: natural red

NATURAL ENGOBES: red, antique, xenon-grey

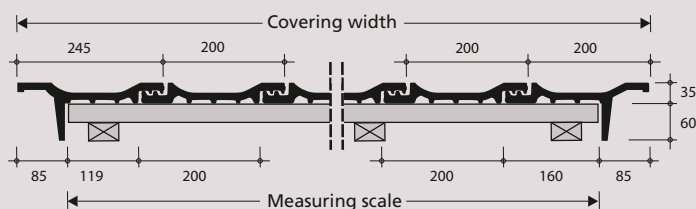
SINTER ENGOBES: grey



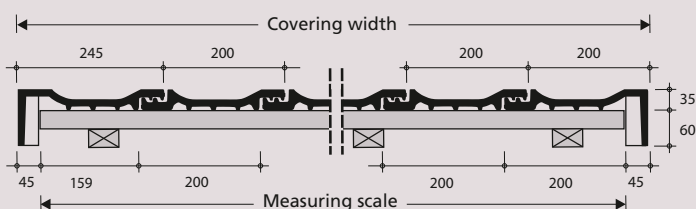
EVALUATION/SIZING OF THE COVERING WIDTH



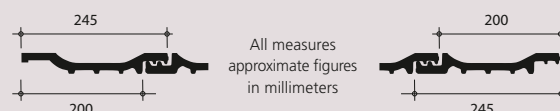
A: Verge tile with interior baulk



A: Verge tile with exterior baulk



B: Double brim tile



All measures
approximate figures
in millimeters

Tile clips for storm protection

409-214 Clipholster® to batter in ZIAL

456-205 Clipholster® to hang onto batten size 30 x 50 ZIAL

456-213 Clipholster® for batten size 40 x 60 ZIAL

Storm clip assignment

Also use our free online tool for

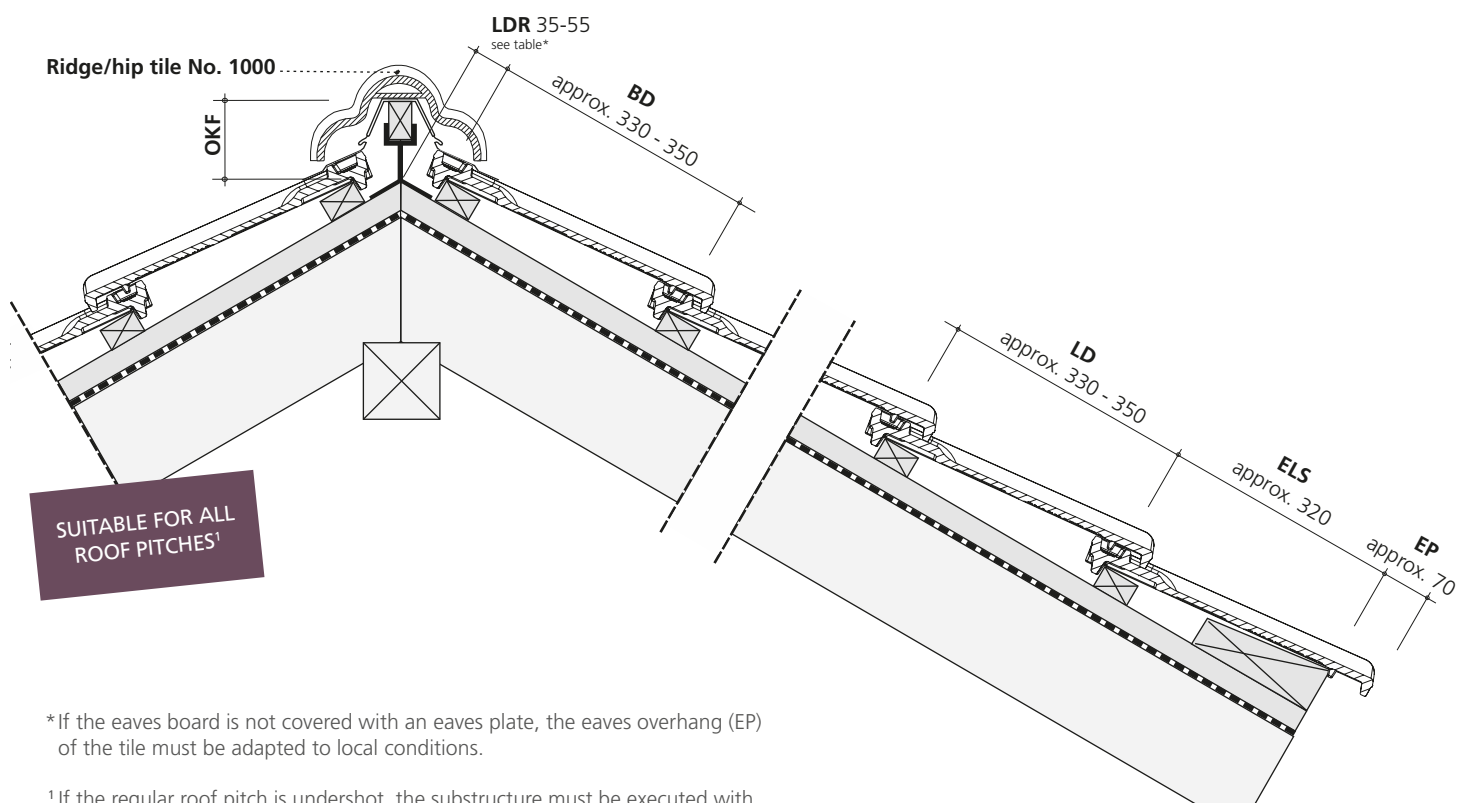
wind suction calculator and storm clip assignment.

<http://www.laumans.de/en/windsog/>

Average covering width in rows without respectively with roof tile in mm construction width = respective measuring scale

ROWS			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Roof tile (RT)			200	400	600	800	1.000	1.200	1.400	1.600	1.800	2.000	2.200	2.400	2.600	2.800	3.000
Double brim tile + RT	200	245	-	-	645	845	1.045	1.245	1.445	1.645	1.845	2.045	2.245	2.445	2.645	2.845	3.045
Verge tile l./r. (interior baulk) + RT	119	160	-	-	479	679	879	1.079	1.279	1.479	1.679	1.879	2.079	2.279	2.479	2.679	2.879
Verge tile l./r. (exterior baulk) + RT	159	200	-	-	559	759	959	1.159	1.359	1.559	1.759	1.959	2.159	2.359	2.559	2.759	2.959

ROWS		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Roof tile (RT)		3.200	3.400	3.600	3.800	4.000	4.200	4.400	4.600	4.800	5.000	5.200	5.400	5.600	5.800	6.000
Double brim tile + RT		3.245	3.445	3.645	3.845	4.045	4.245	4.445	4.645	4.845	5.045	5.245	5.445	5.645	5.845	6.045
Verge tile l./r. (interior baulk) + RT		3.079	3.279	3.479	3.679	3.879	4.079	4.279	4.479	4.679	4.879	5.079	5.279	5.479	5.679	5.879
Verge tile l./r. (exterior baulk) + RT		3.159	3.359	3.559	3.759	3.959	4.159	4.359	4.559	4.759	4.959	5.159	5.359	5.559	5.759	5.959



*If the eaves board is not covered with an eaves plate, the eaves overhang (EP) of the tile must be adapted to local conditions.

¹If the regular roof pitch is undershot, the substructure must be executed with increased requirements

EVALUATION/SIZING OF THE RAFTER LENGTH

Eaves overhang (EP) 70 mm: number of rows (according to chart) + lath distance eaves (ELS) + lath distance ridge (LDR)

Covering length

ROWS	01	02	03	04	05	06	07	08	09	10
COVER- ING LENGHT in mm	330	660	990	1.320	1.650	1.980	2.310	2.640	2.970	3.300
	340	680	1.020	1.360	1.700	2.040	2.380	2.720	3.060	3.400
	350	700	1.050	1.400	1.750	2.100	2.450	2.800	3.150	3.500
ROWS	11	12	13	14	15	16	17	18	19	20
COVER- ING LENGHT in mm	3.630	3.960	4.290	4.620	4.950	5.280	5.610	5.940	6.270	6.600
	3.740	4.080	4.420	4.760	5.100	5.440	5.780	6.120	6.460	6.800
	3.850	4.200	4.550	4.900	5.250	5.600	5.950	6.300	6.650	7.000
ROWS	21	22	23	24	25	26	27	28	29	30
COVER- ING LENGHT in mm	6.930	7.260	7.590	7.920	8.250	8.580	8.910	9.240	9.570	9.900
	7.140	7.480	7.820	8.160	8.500	8.840	9.180	9.520	9.860	10.200
	7.350	7.700	8.050	8.400	8.750	9.100	9.450	9.800	10.150	10.500

All values are determined with a 30 x 50 mm lathing. If other slat cross sections are used, than these must be checked at the construction site beforehand!

The accurate lath spacing has to be determined at the building site with the delivered tiles.

Lath distance ridge (LDR)

Using roof tiles				
Roof pitch	20°	30°	40°	50°
Ridge No. 1000	55 mm	50 mm	47 mm	33 mm
Ridge No. 300	45 mm	45 mm	40 mm	35 mm

Further available fitting tiles

Term	Covering width/Measuring scale
Half tile	100 mm
Ventilation tile, ventilation approx. 15 cm²	200 mm
Vent pipe/antenna opening tile	200 mm
Solar connection tile, admission max. 65 mm Ø	200 mm
Shed roof tile 90°, side length 220/100 mm	200 mm
Shed roof verge tile left, interior baulk	245 mm / 119 mm
Shed roof verge tile right, interior baulk	200 mm / 160 mm

Distance from ridge vertex / Top of ridge lath (OKF):

Using roof tiles				
Roof pitch	20°	30°	40°	50°
Ridge No. 1000	130 mm	110 mm	90 mm	80 mm
Ridge No. 300	125 mm	113 mm	98 mm	80 mm

Shed roof tiles with different slopes and measures, mansard tiles etc. on request.

For ridge / hip tile and accessories, see pages 14–15

MULDENVARIABEL

HISTORIC, STYLISH TWIN TROUGH INTERLOCKING TILE

Dimension: 415 x 245 x 35 mm

Covering length: approx. 340 mm (approx. 330–350 mm)

Covering width: approx. 200 mm

Required: from approx. 14,3 pcs./m²

Weight per pc./ per m²: approx. 3,7 kg / 52,9–56,2 kg

Minimum roof pitch¹: 17°

Standard roof pitch: 25°

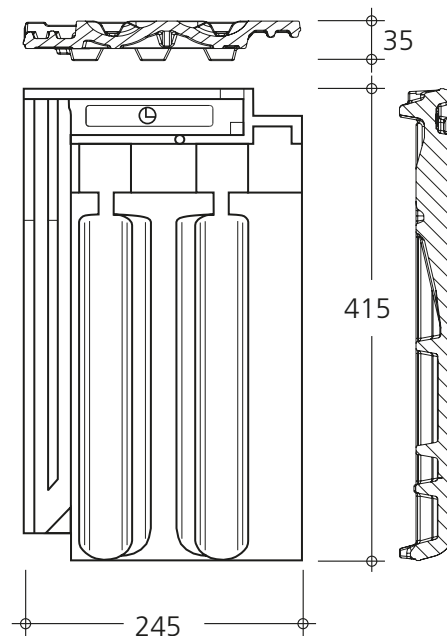
Package contents: 300 pcs. in 50 bundles of 6 on europallet

AVAILABLE COLOURS AND SURFACES

NATURAL FIRING: natural red

NATURAL ENGOBES: red, antique, xenon-grey

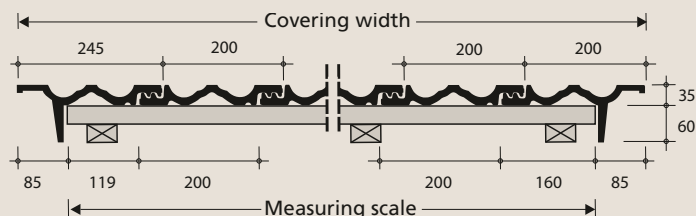
BRILLIANT GLAZES: black, dark brown



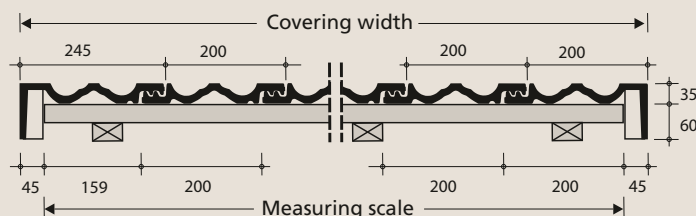
EVALUATION/SIZING OF THE COVERING WIDTH



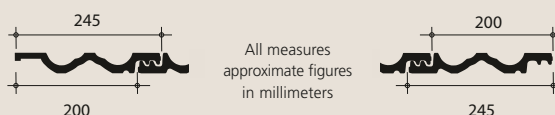
A: Verge tile with interior baulk



A: Verge tile with exterior baulk



B: Double brim tile



Tile clips for storm protection

409-214 Clipholster® to batter in ZIAL

456-203 Clipholster® to hang onto batten size 30 x 50 ZIAL

456-011 for batten size 40 x 60 ZIAL

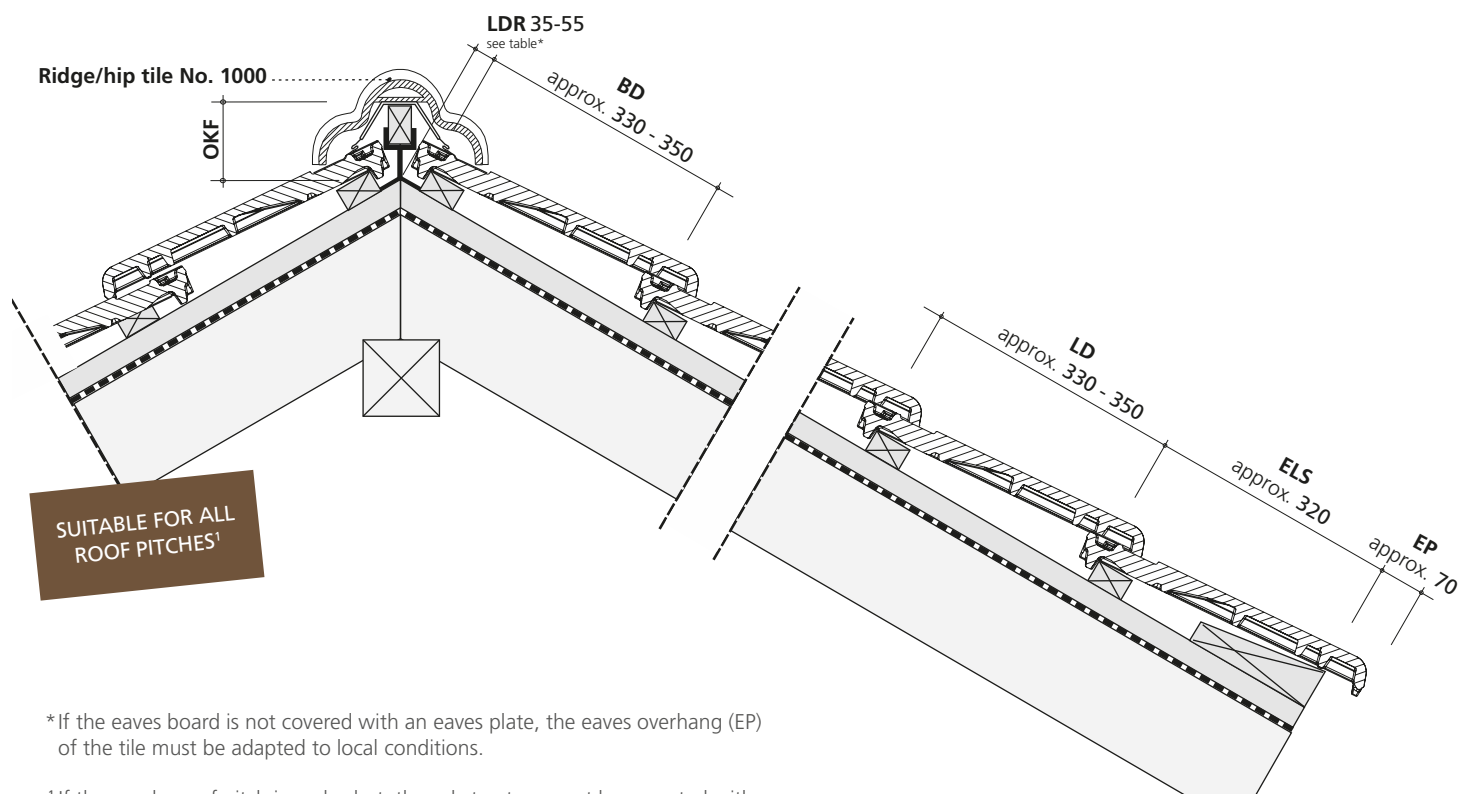
Storm clip assignment

Also use our free online tool for wind suction calculator and storm clip assignment.
<http://www.laumans.de/en/windsog/>

Average covering width in rows without respectively with roof tile in mm construction width = respective measuring scale

ROWS		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Roof tile (RT)		200	400	600	800	1.000	1.200	1.400	1.600	1.800	2.000	2.200	2.400	2.600	2.800	3.000
Double brim tile + RT	200 245	-	-	645	845	1.045	1.245	1.445	1.645	1.845	2.045	2.245	2.445	2.645	2.845	3.045
Verge tile l./r. (interior baulk) + RT	119 160	-	-	479	679	879	1.079	1.279	1.479	1.679	1.879	2.079	2.279	2.479	2.679	2.879
Verge tile l./r. (exterior baulk) + RT	159 200	-	-	559	759	959	1.159	1.359	1.559	1.759	1.959	2.159	2.359	2.559	2.759	2.959

REIHEN		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Roof tile (RT)		3.200	3.400	3.600	3.800	4.000	4.200	4.400	4.600	4.800	5.000	5.200	5.400	5.600	5.800	6.000
Double brim tile + RT		3.245	3.445	3.645	3.845	4.045	4.245	4.445	4.645	4.845	5.045	5.245	5.445	5.645	5.845	6.045
Verge tile l./r. (interior baulk) + RT		3.079	3.279	3.479	3.679	3.879	4.079	4.279	4.479	4.679	4.879	5.079	5.279	5.479	5.679	5.879
Verge tile l./r. (exterior baulk) + RT		3.159	3.359	3.559	3.759	3.959	4.159	4.359	4.559	4.759	4.959	5.159	5.359	5.559	5.759	5.959



*If the eaves board is not covered with an eaves plate, the eaves overhang (EP) of the tile must be adapted to local conditions.

¹If the regular roof pitch is undershot, the substructure must be executed with increased requirements

EVALUATION/SIZING OF THE RAFTER LENGTH

Eaves overhang (EP) 70 mm: number of rows (according to chart) + lath distance eaves (ELS) + lath distance ridge (LDR)

Covering length

ROWS	01	02	03	04	05	06	07	08	09	10
COVER- ING LENGHT in mm	330	660	990	1.320	1.650	1.980	2.310	2.640	2.970	3.300
	340	680	1.020	1.360	1.700	2.040	2.380	2.720	3.060	3.400
	350	700	1.050	1.400	1.750	2.100	2.450	2.800	3.150	3.500
ROWS	11	12	13	14	15	16	17	18	19	20
COVER- ING LENGHT in mm	3.630	3.960	4.290	4.620	4.950	5.280	5.610	5.940	6.270	6.600
	3.740	4.080	4.420	4.760	5.100	5.440	5.780	6.120	6.460	6.800
	3.850	4.200	4.550	4.900	5.250	5.600	5.950	6.300	6.650	7.000
ROWS	21	22	23	24	25	26	27	28	29	30
COVER- ING LENGHT in mm	6.930	7.260	7.590	7.920	8.250	8.580	8.910	9.240	9.570	9.900
	7.140	7.480	7.820	8.160	8.500	8.840	9.180	9.520	9.860	10.200
	7.350	7.700	8.050	8.400	8.750	9.100	9.450	9.800	10.150	10.500

All values are determined with a 30 x 50 mm lathing. If other slat cross sections are used, than these must be checked at the construction site beforehand!

The accurate lath spacing has to be determined at the building site with the delivered tiles.

Lath distance ridge (LDR)

Roof pitch	20°	30°	40°	50°
Ridge No. 1000	55 mm	35 mm	35 mm	35 mm
Ridge No. 300	40 mm	35 mm	40 mm	35 mm

Distance from idge vertex / Top of ridge lath (OKF):

Roof pitch	20°	30°	40°	50°
Ridge No. 1000	130 mm	110 mm	90 mm	80 mm
Ridge No. 300	120 mm	105 mm	95 mm	80 mm

Further available fitting tiles

Term	Covering width/Measuring scale
Half tile	100 mm
Ventilation tile, ventilation approx. 15 cm²	200 mm
Vent pipe/antenna opening tile	200 mm
Solar connection tile, admission max. 65 mm Ø	200 mm
Shed roof tile 90°, side length 220/100 mm	200 mm
Shed roof verge tile left, interior baulk	245 mm / 119 mm
Shed roof verge tile right, interior baulk	200 mm / 160 mm

Shed roof tiles with different slopes and measures, mansard tiles etc. on request.

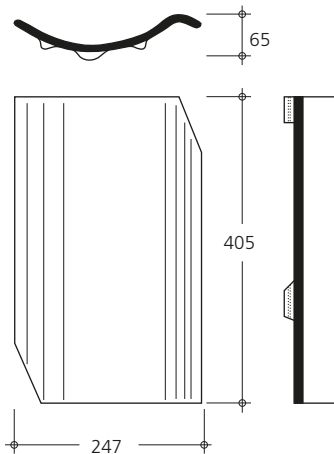
For ridge / hip tile and accessories, see pages 14–15

HOHLPFANNE

TRADITIONAL, DISTINCTIVE HOLLOW TILE

LONGCUT (LC) for fore-cut coverage

Dimension:
405 x 247 x 65 mm
Covering length:
approx. 330 mm
Covering width:
approx. 220 mm
Required:
from approx. 13,8 pcs./m²
Weight per pc./ per m²:
approx. 2,9 kg / approx. 40 kg
Minimum roof pitch¹: 30°
Standard roof pitch: 40°
Package contents:
252 pcs. in 42 bundles of 6
on europallet



AVAILABLE COLOURS

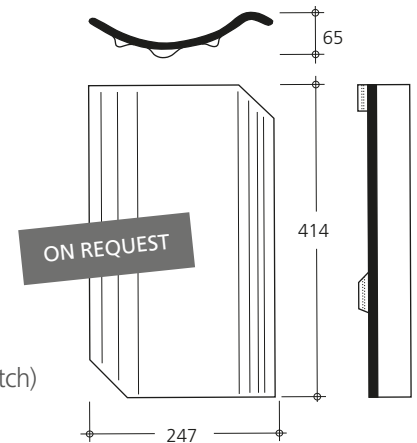
NATURAL FIRING: natural red,
subdued grey, brown, yellow,
red coloured, subdued coloured

NATURAL ENGOBES: anthracite

TRADITIONAL, DISTINCTIVE HOLLOW TILE

SHORTCUT (SC) for cut coverage

Dimension:
414 x 247 x 65 mm
Covering length:
approx. 325 mm
(approx. 315-335 mm
depending on the roof pitch)
Covering width:
approx. 220 mm
Required:
from approx. 13,6 pcs./m²
Weight per pc./ per m²:
approx. 2,9 kg / 39,4–41,8 kg
Minimum roof pitch¹: 25°
Standard roof pitch: 35°
Package contents:
252 pcs. in 42 bundles of 6
on europallet



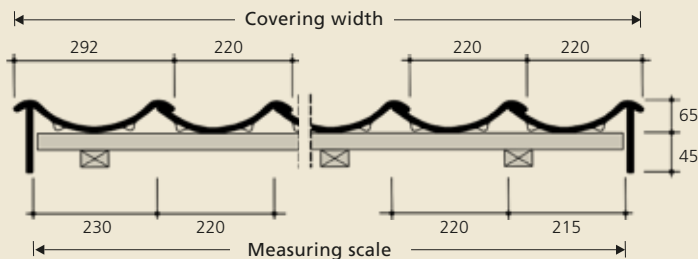
AVAILABLE COLOURS

NATUR-BRAND: naturrot

EVALUATION/SIZING OF THE COVERING WIDTH



A: Side finish with baulk



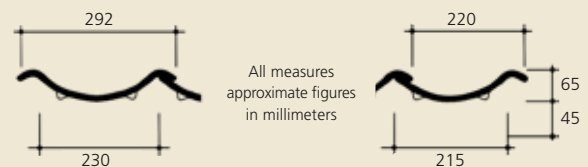
Fore-cut coverage (Longcut)



Cut coverage (Shortcut)



B: Double brim tile



Tile clips for storm protection

No. 428 b / 1 to hang onto batten size 30 x 50 mm
No. 428 b / 2 to hang onto batten size 40 x 60 mm
No. 453-211 Clipholster® to batter

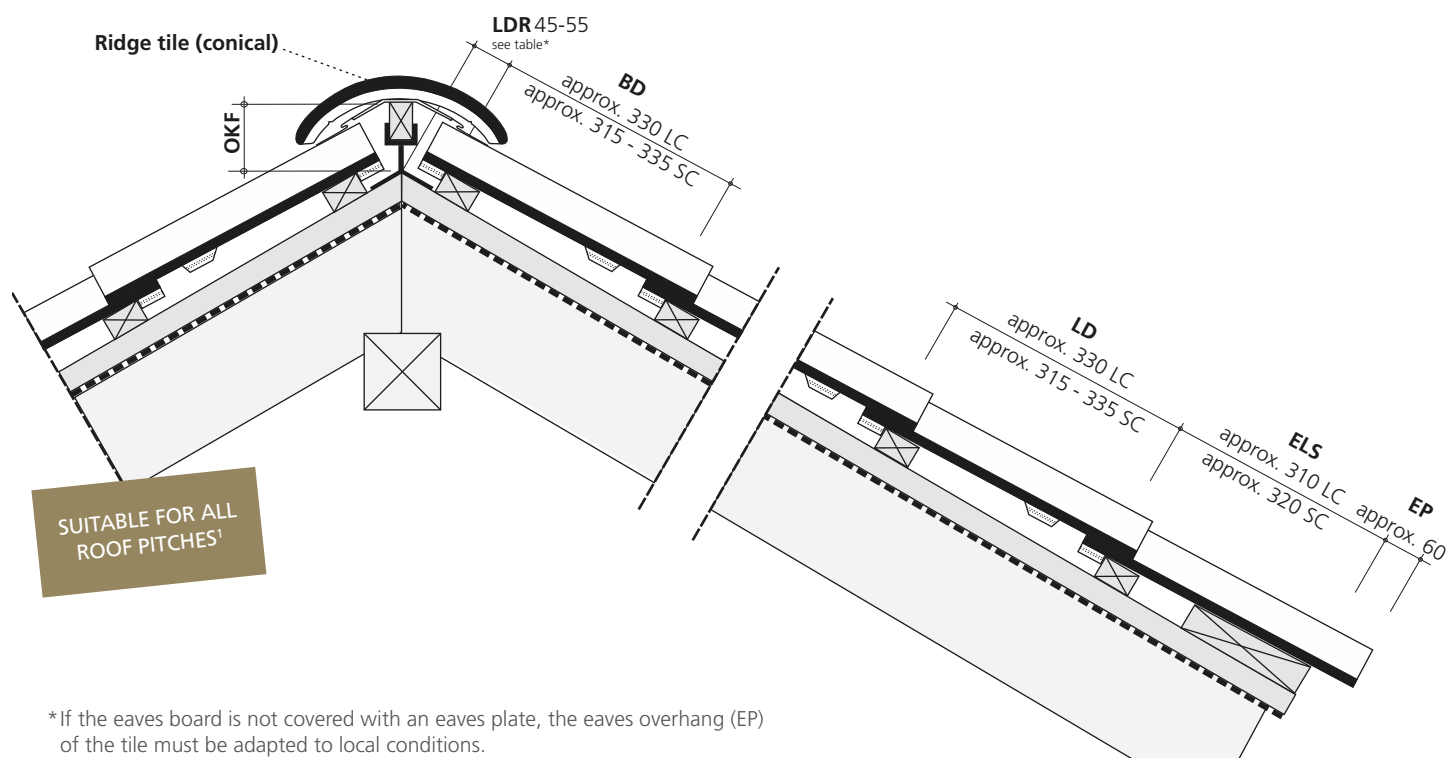
Storm clip assignment

Also use our free online tool for
wind suction calculator and storm clip assignment.
<http://www.laumans.de/en/windsog/>

Average covering width in rows without respectively with roof tile in mm construction width = respective measuring scale

REIHEN		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Roof tile (RT)		220	440	660	880	1.100	1.320	1.540	1.760	1.980	2.200	2.420	2.640	2.860	3.080	3.300
Double brim tile + RT	230 215	-	-	665	885	1.105	1.325	1.545	1.765	1.985	2.205	2.425	2.645	2.865	3.085	3.305
Side finish with baulk l/r. + RT	230 215	-	-	665	885	1.105	1.325	1.545	1.765	1.985	2.205	2.425	2.645	2.865	3.085	3.305

REIHEN		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Roof tile (RT)		3.520	3.740	3.960	4.180	4.400	4.620	4.840	5.060	5.280	5.500	5.720	5.940	6.160	6.380	6.600
Double brim tile + RT		3.525	3.745	3.965	4.185	4.405	4.625	4.845	5.065	5.285	5.505	5.725	5.945	6.165	6.385	6.605
Side finish with baulk l/r. + RT		3.525	3.745	3.965	4.185	4.405	4.625	4.845	5.065	5.285	5.505	5.725	5.945	6.165	6.385	6.605



*If the eaves board is not covered with an eaves plate, the eaves overhang (EP) of the tile must be adapted to local conditions.

¹If the regular roof pitch is undershot, the substructure must be executed with increased requirements

EVALUATION/SIZING OF THE RAFTER LENGTH

Eaves overhang (EP) 60 mm: number of rows (according to chart) + lath distance eaves (ELS) + lath distance ridge (LDR)

Covering length

ROWS		01	02	03	04	05	06	07	08	09	10
COVER- ING LENGHT in mm (LD)	LS	330	660	900	1.320	1.650	1.980	2.310	2.640	2.970	3.300
	KS ≤40°	315	630	945	1.260	1.575	1.890	2.205	2.520	2.835	3.150
	KS >40°	325	650	975	1.300	1.625	1.950	2.275	2.600	2.925	3.250
	KS >45°	335	670	1.005	1.340	1.675	2.010	2.345	2.680	3.015	3.350
ROWS		11	12	13	14	15	16	17	18	19	20
COVER- ING LENGHT in mm (LD)	LS	3.630	3.960	4.290	4.620	4.950	5.280	5.610	5.940	6.270	6.600
	KS ≤40°	3.465	3.780	4.095	4.410	4.725	5.040	5.355	5.670	5.985	6.300
	KS >40°	3.575	3.900	4.225	4.550	4.875	5.200	5.525	5.850	6.175	6.500
	KS >45°	3.685	4.020	4.355	4.690	5.025	5.360	5.695	6.030	6.365	6.700
ROWS		21	22	23	24	25	26	27	28	29	30
COVER- ING LENGHT in mm (LD)	LS	6.930	7.260	7.590	7.920	8.250	8.580	8.910	9.240	9.570	9.900
	KS ≤40°	6.615	6.930	7.245	7.560	7.875	8.190	8.505	8.820	9.135	9.450
	KS >40°	6.825	7.150	7.475	7.800	8.125	8.450	8.775	9.100	9.425	9.750
	KS >45°	7.035	7.370	7.705	8.040	8.375	8.710	9.045	9.380	9.715	10.050

All values are determined with a 30 x 50 mm lathing. If other slat cross sections are used, than these must be checked at the construction site beforehand!

The accurate lath spacing has to be determined at the building site with the delivered tiles.

Lath distance ridge (LDR)

Roof pitch	20°	30°	40°	50°
Ridge tile (conical)	55 mm	50 mm	50 mm	45 mm

Distance from edge vertex / Top of ridge lath (OKF):

Roof pitch	20°	30°	40°	50°
Ridge tile (conical)	145 mm	130 mm	120 mm	105 mm

Further available fitting tiles

Term	Covering width/Measuring scale
Double brim tile	292 mm
Ventilation tile, ventilation approx. 60 cm²	220 mm
Vent pipe/antenna opening tile	220 mm

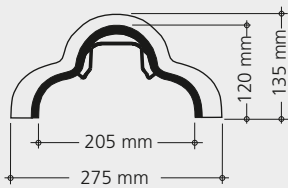
For ridge / hip tile and accessories, see pages 14–15

RIDGE TILES

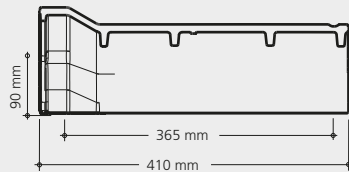
Ridge tile No. 1000

Dimension: approx. 410 x 275 mm
 Covering length: approx. 365 mm
 Covering width: approx. 205 mm
 Required: from approx. 2,7 per m
 Weight per pc.: approx. 3,4 kg
 Package contents: 60 pcs.
 on europallet

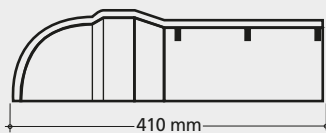
Cross-section



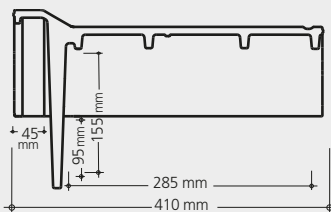
Longitudinal section



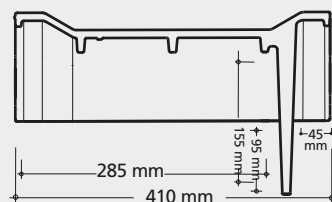
Ridge beginner No.1001



Roof ridge beginner No.1002



Roof ridge ender No.1003

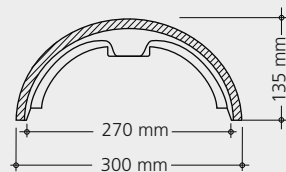


Tile clips for storm protection: Ridge clips No. 470-49

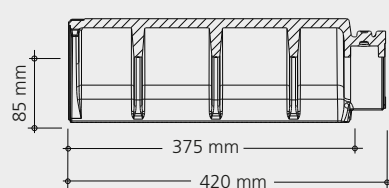
Ridge tile No. 3000

Dimension: approx. 420 x 300 mm
 Covering length: approx. 375 mm
 Covering width: approx. 270 mm
 Required: from approx. 2,7 per m
 Weight per pc.: approx. 5,4 kg
 Package contents: 36 pcs.
 on europallet

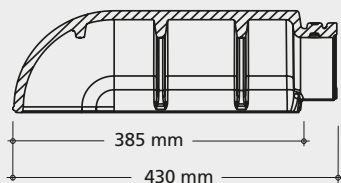
Cross-section



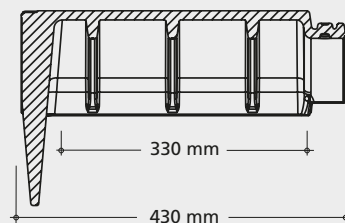
Longitudinal section



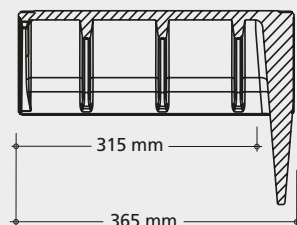
Ridge beginner No. 3001



Roof ridge beginner No. 3002



Roof ridge ender No. 3003

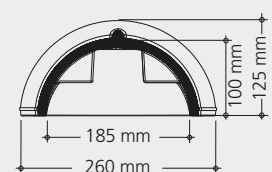


Ridge clip No. 470-224

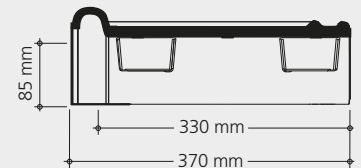
Ridge tile No. 300

Dimension: approx. 370 x 260 mm
 Covering length: approx. 330 mm
 Covering width: approx. 185 mm
 Required: from approx. 3,0 per m
 Weight per pc.: approx. 3,5 kg
 Package contents: 48 pcs.
 on europallet

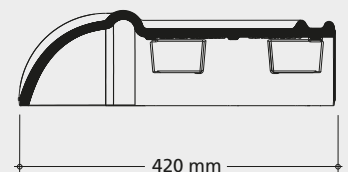
Cross-section



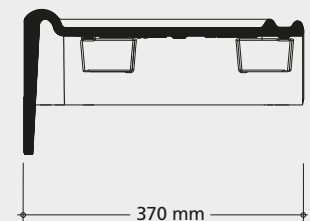
Longitudinal section



Ridge beginner No. 301



Roof ridge beginner No. 302



Roof ridge ender No. 303

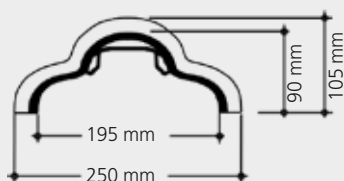


Tile clips for storm protection: Ridge clip No. 470-24

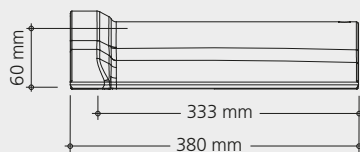
Ridge tile No. 100

Dimension: approx. 380 x 250 mm
 Covering length: approx. 333 mm
 Covering width: approx. 195 mm
 Required: from approx. 3,0 per m
 Weight per pc.: approx. 2,6 kg
 Package contents: 96 pcs.
 on europallet

Cross-section



Longitudinal section

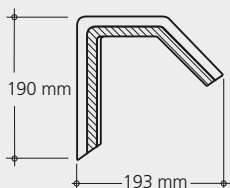


Tile clips for storm protection: Ridge clip No. 470-49

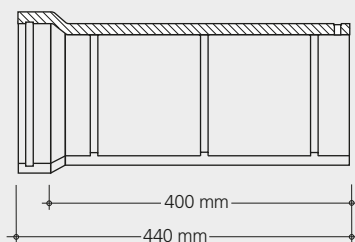
Universal shed roof tile No. 6800

Dimension: approx. 440 x 220 mm
 Covering length: approx. 400 mm
 Covering width: approx. 193 mm
 Required: from approx. 2,5 per m
 Weight per pc.: approx. 4,5 kg

Cross-section



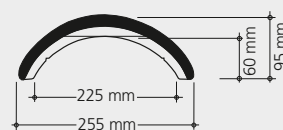
Longitudinal section



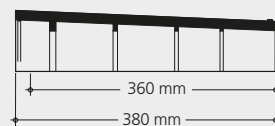
Ridge tile (conical) HOHLPFANNE

Dimension: approx. 380 x 255 mm
 Covering length: approx. 360 mm
 Covering width: approx. 225 mm
 Required: from approx. 3,0 per m
 Weight per pc.: approx. 3,5 kg
 Package contents: 156 pcs.
 on europallet

Cross-section



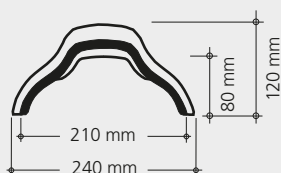
Longitudinal section



Ridge tile No. 200

Dimension: approx. 380 x 260 mm
 Covering length: approx. 350 mm
 Covering width: approx. 210 mm
 Required: from approx. 3,0 per m
 Weight per pc.: approx. 2,7 kg

Cross-section

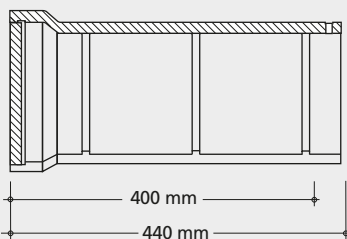


Longitudinal section

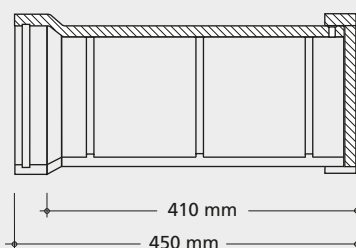


Ridge clip No. 470-107

Universal shed starting tile No. 6802



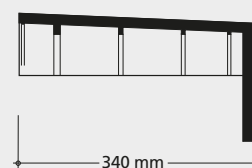
Universal shed ending tile No. 6803



Roof ridge beginner



Roof ridge ender



Tile clips for storm protection: Ridge clip No. 470-148



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info@laumans.de, www.laumans.de

ORIGINAL Dachziegel natürlich TON!



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