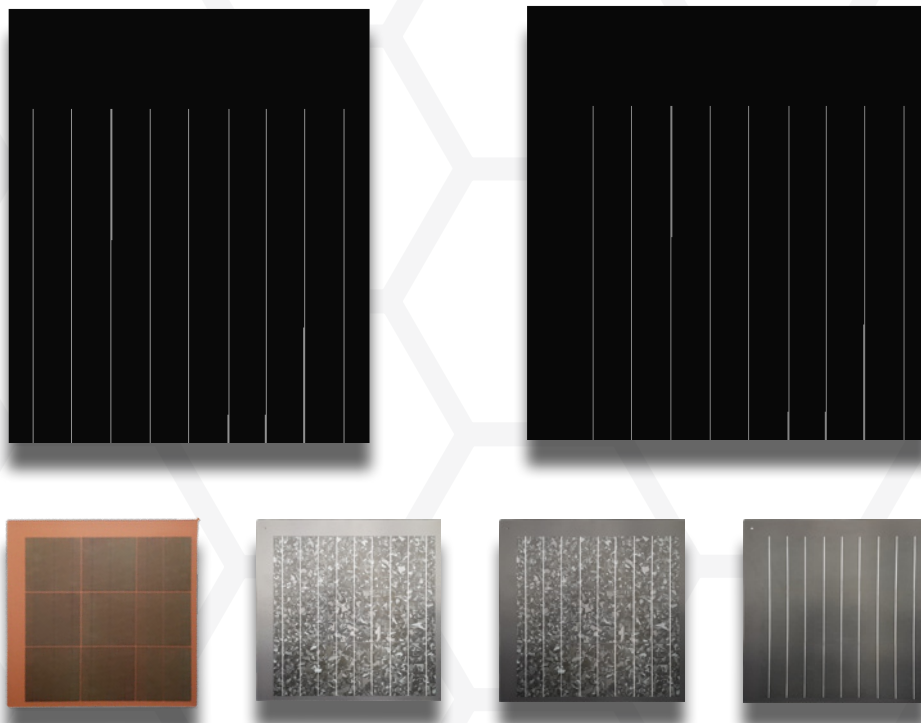


QUAD50 + QUAD54



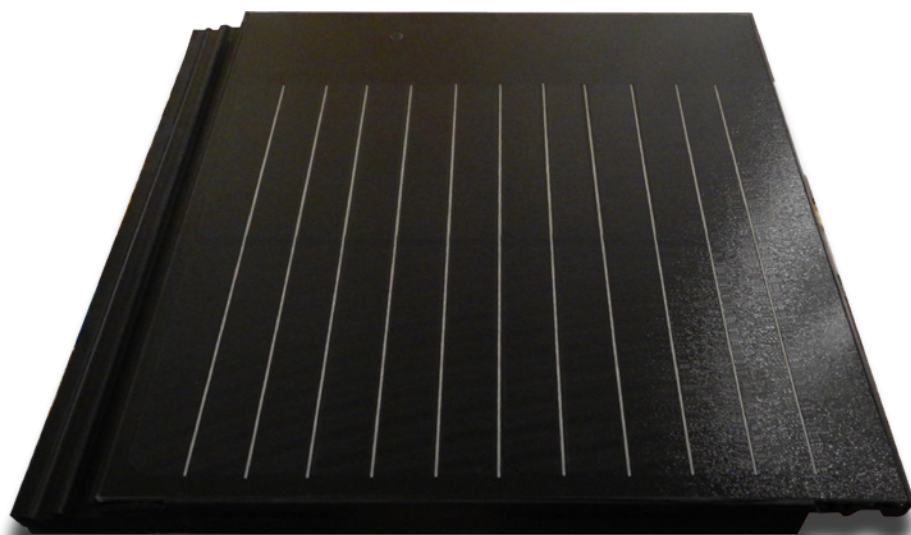
QUAD50 - The POWER-MACHINE

Easy and quick to install, yet highly storm and hail resistant

SolteQ is revolutionizing the world of energy generation with clean systems.

Our engineers are constantly developing the best and most effective options and also think outside the box.

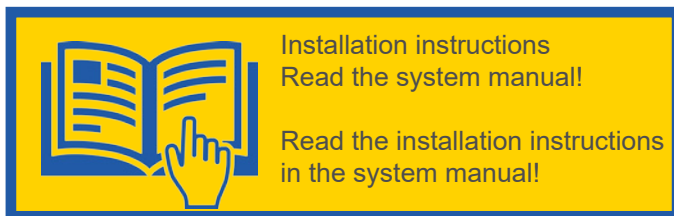
The Quad50 range has a side rebate, like a conventional roof tile. This ensures excellent rain protection in accordance with the technical regulations of the German roofing trade. The extremely stable aluminum storm clips attached to the back ensure very high storm resistance up to CAT 4.



SolteQ-QUAD50x60cm
Premium-Black



SolteQ-QUAD50x60cm
Premium-Black-Plus





Approvals

ASTM E108 Class C

Class A Fire

FBC (HVHZ) TAS 100 High Velocity Zones

FBC (HVHZ) TAS 107 Wind driven rain

UL 61730-2 Solar safety

ANSI FM 4473: Class 4 hail with 2" ice at 70 MPH

CEC approval



SolteQ-QUAD50x60cm

Color variants



Premium-Black



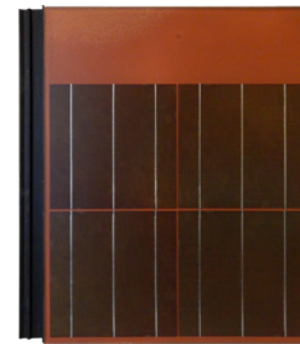
Premium-Black-Plus



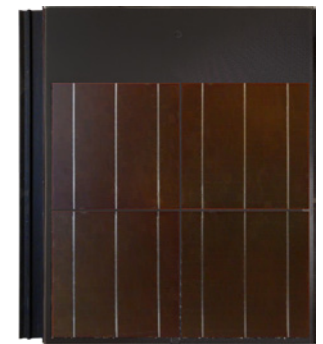
Basalt gray



Slate gray



Brick red



brown

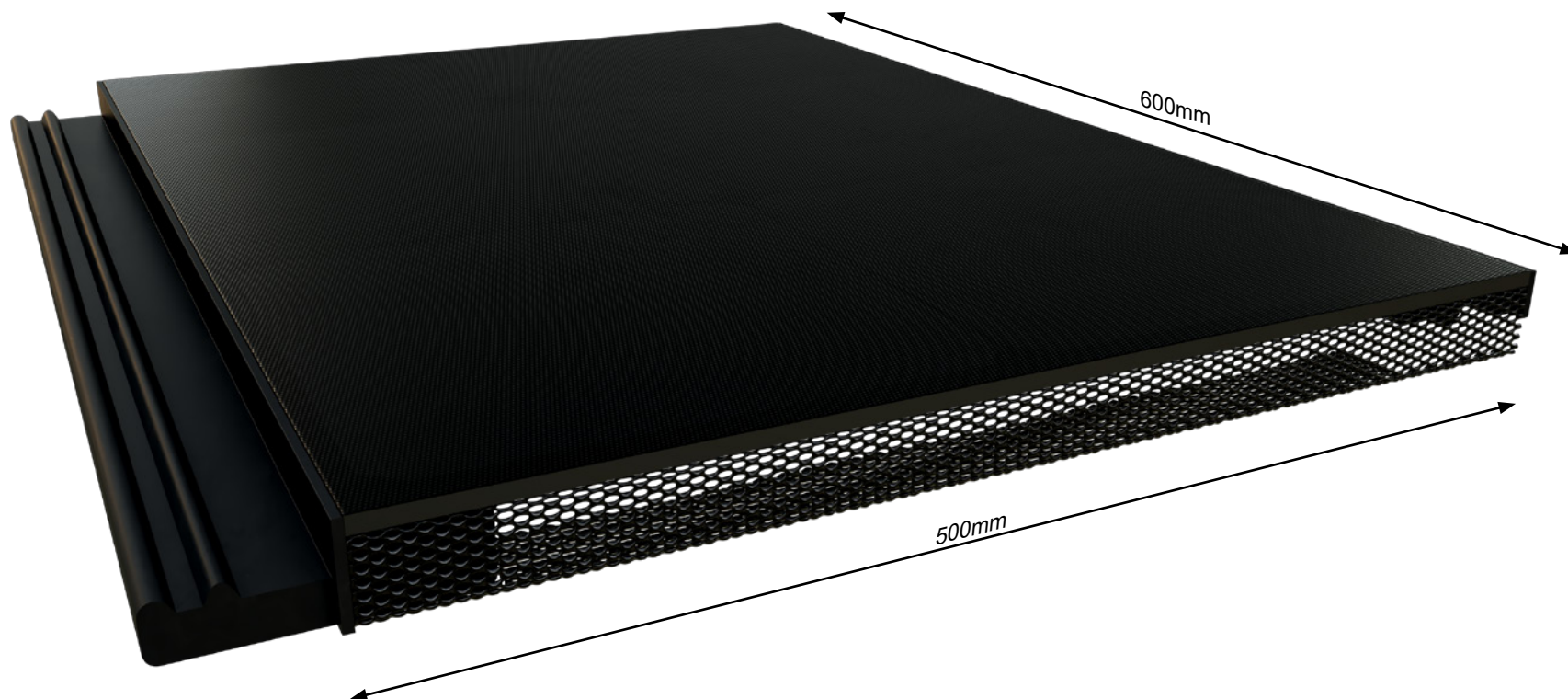
All variants are also optionally available as a Plus variant with the same performance.

HINWEIS zu farbigen Varianten:

Bei farbigen Varianten kann der Farbverlust zwischen ca. 8 und ca. 20% betragen. Je heller die Farbe, desto höher der Verlust. Die Leistungsangaben sind reine Richtwerte und können nicht garantiert werden.

NOTE on colored variants:

With colored variants, the color loss can be between approx. 8 and approx. 20%. The lighter the color, the greater the loss. The performance information is purely a guideline and cannot be guaranteed.



Variants - seal:

ZGB: With intermediate rubber on battens

ZGDD: With intermediate rubber on cladding or metal roof

INTERLOCK-B: With rebate profile on battens

INTERLOCK-DD: With rebate profile on cladding or metal roof

Variants of suspension with battens: - Please specify options when ordering, otherwise the standard version will be delivered -

Standard suspension Var.1: Single battens + spring hooks on the back

OPTION - Suspension Var.2: Single battens + storm clip below

OPTION - Suspension Var.3: Double battens + stable aluminum hooks in the middle on the back + storm clip at the bottom

QUAD54 - Wide for snow hooks

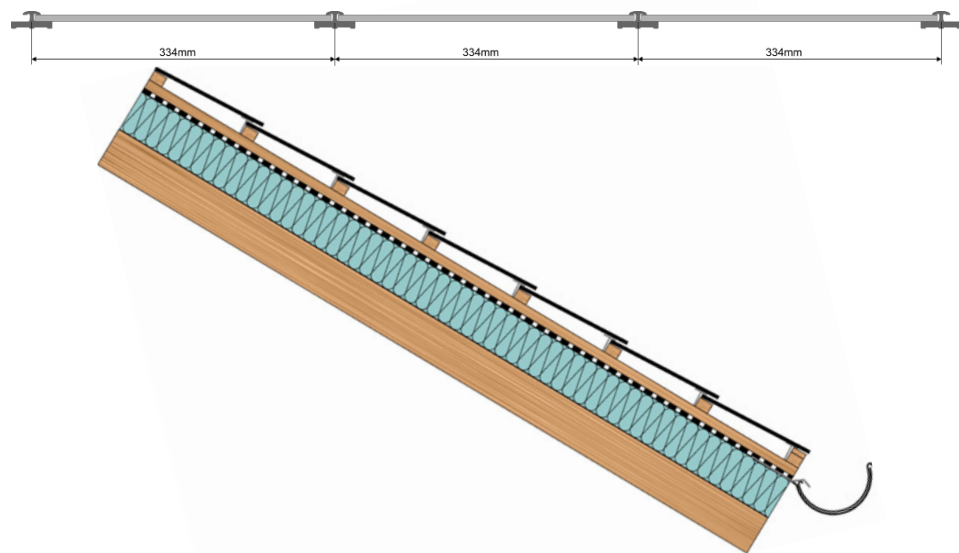
Suspension Var.3: Double battens + sturdy aluminum hooks in the middle on the back + storm clip at the bottom

More detailed description on the following pages

Variants - seal

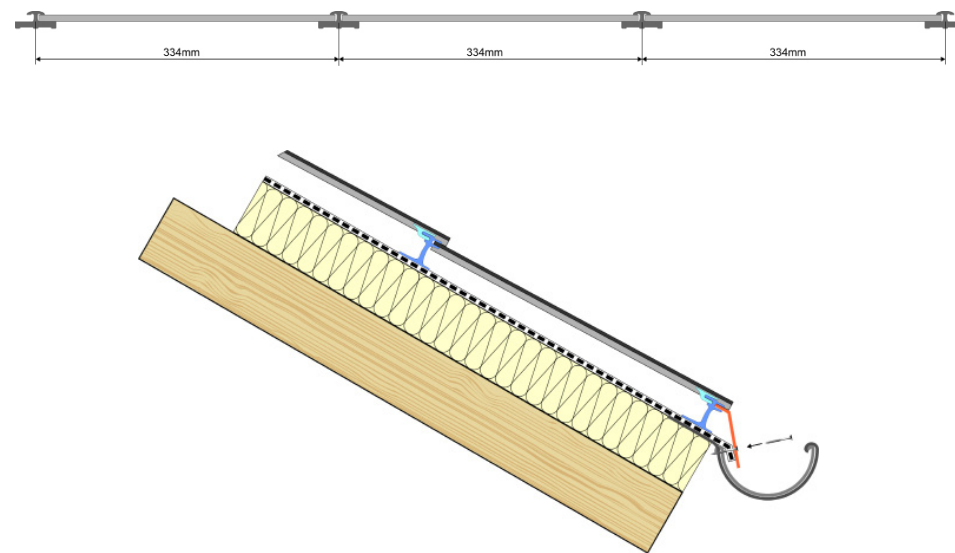
a) With intermediate seal and installation on battens

Type designation: Quad50-ZGB- ...



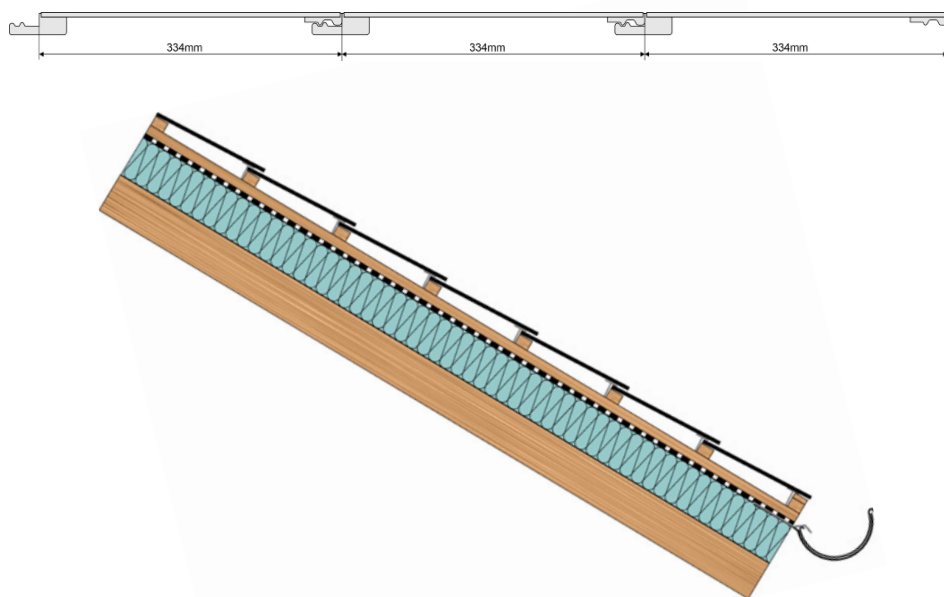
b) With intermediate seal and installation directly on wooden cladding, without battens (Interlock / Direct Deck)

Type designation: Quad50-ZGDD- ...



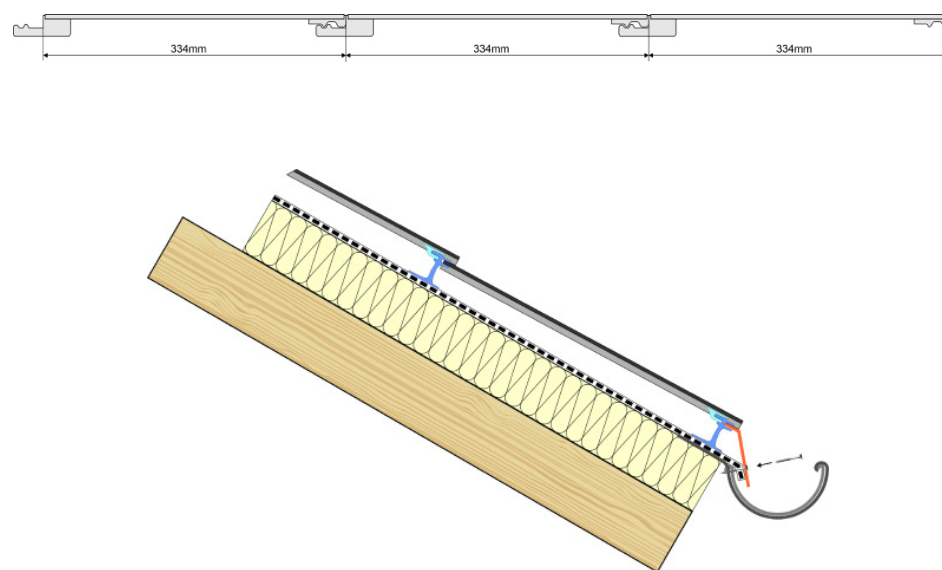
c) With folding profiles and installation on battens

Type designation: Quad50-INTERLOCK-B- ...



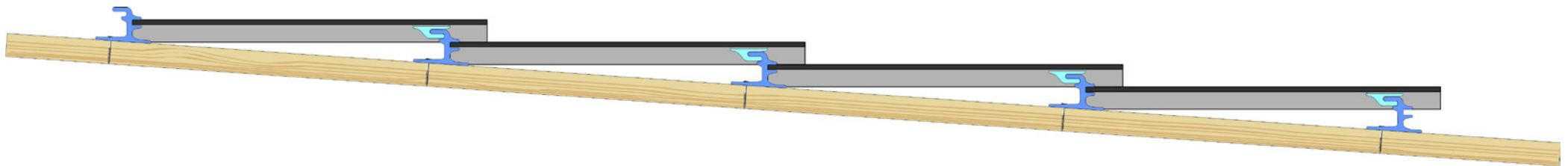
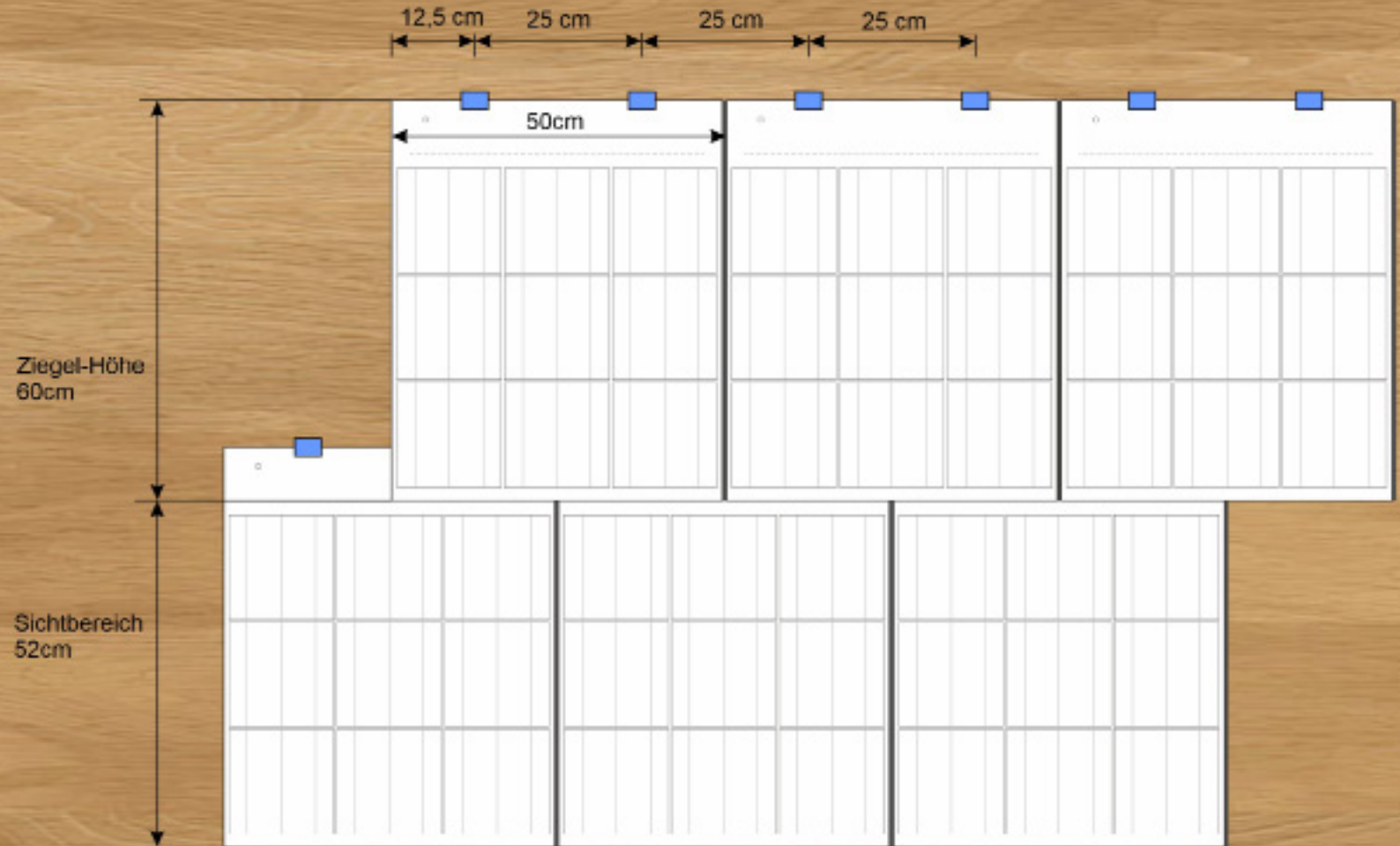
d) With folding profiles and installation directly on wooden cladding, without battens (Interlock / Direct Deck)

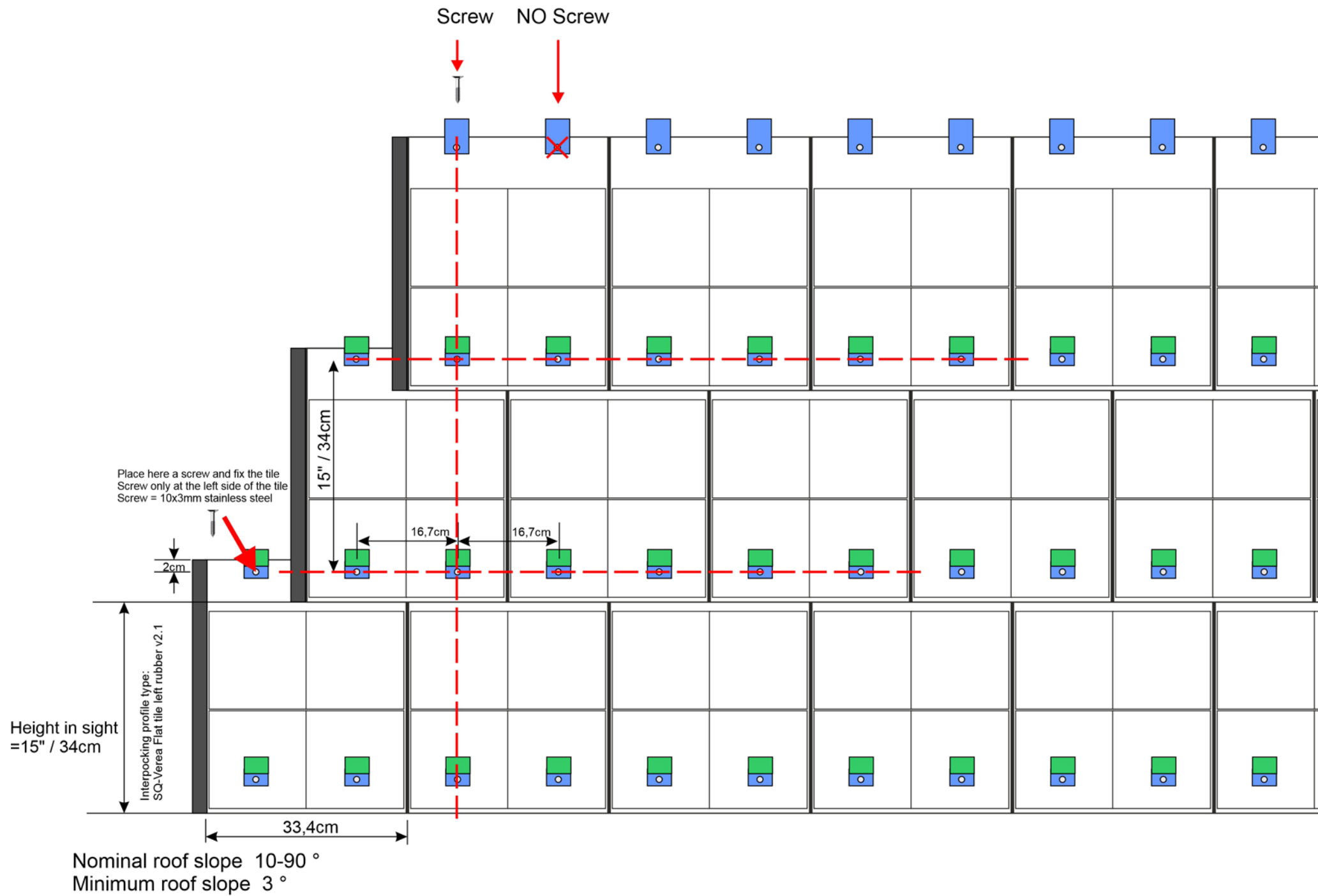
Type designation: Quad50-INTERLOCK-DD- ...



Variants - laying

Laying on wooden formwork



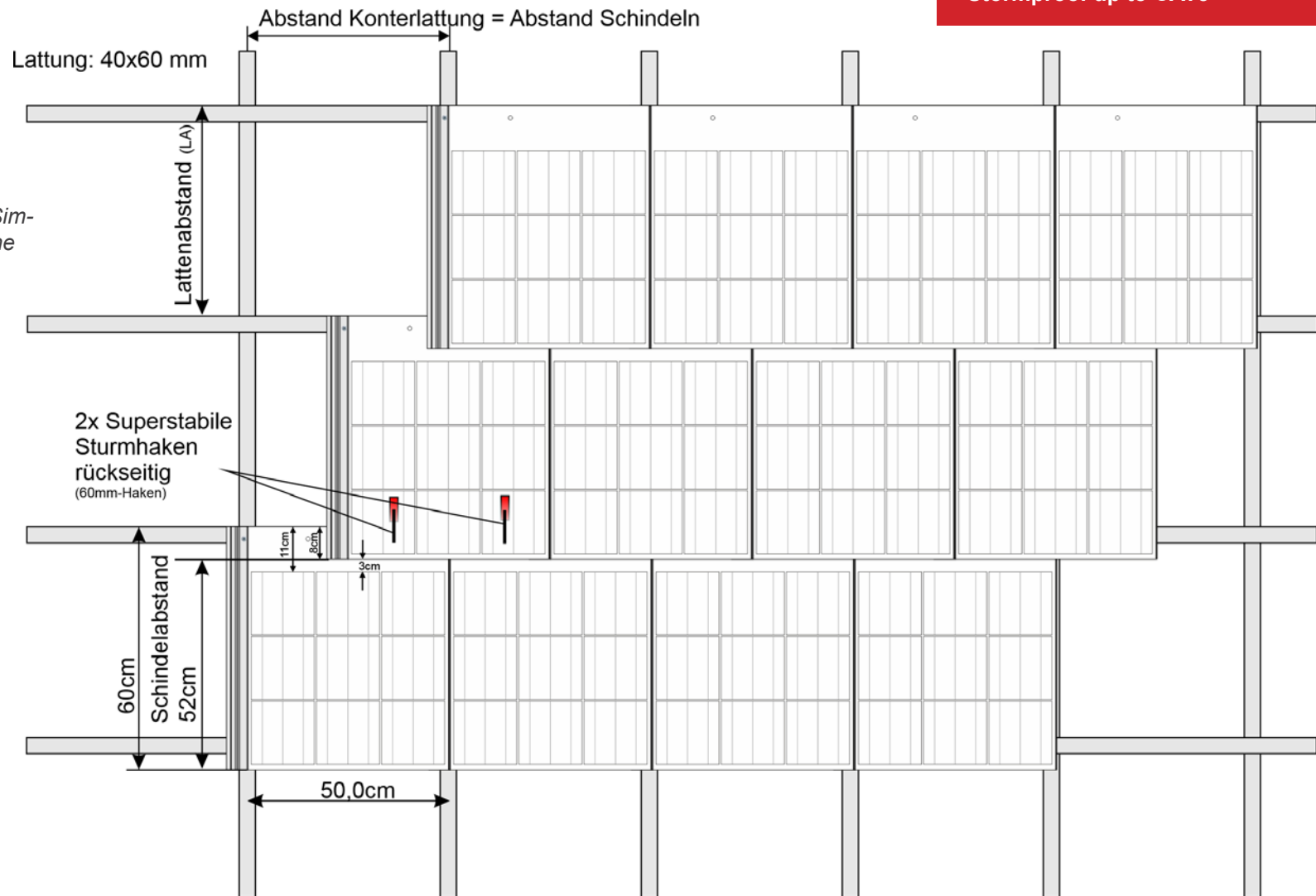


Laying, standard on single battens - hooks invisible

Suspension Var.1: Single battens + spring hooks on the back

ECONOMICAL LATTENING
Stormproof up to CAT3

Ideal for roof renovation on existing trapezoidal roofs. Simply put it on the old roof if the statics are still OK.



Abstände Konterlattung = Achsabstand Schindeln horizontal

Minimal:	50,0 cm
Optimal:	50,0 cm
Maximal:	50,0 cm

Regeldachneigung 22 °

Mindestdachneigung 10 °

Befestigung über Einhängen + 1x Verschraubung

Menge pro m²: ca. 4 St. bei LA = 50cm

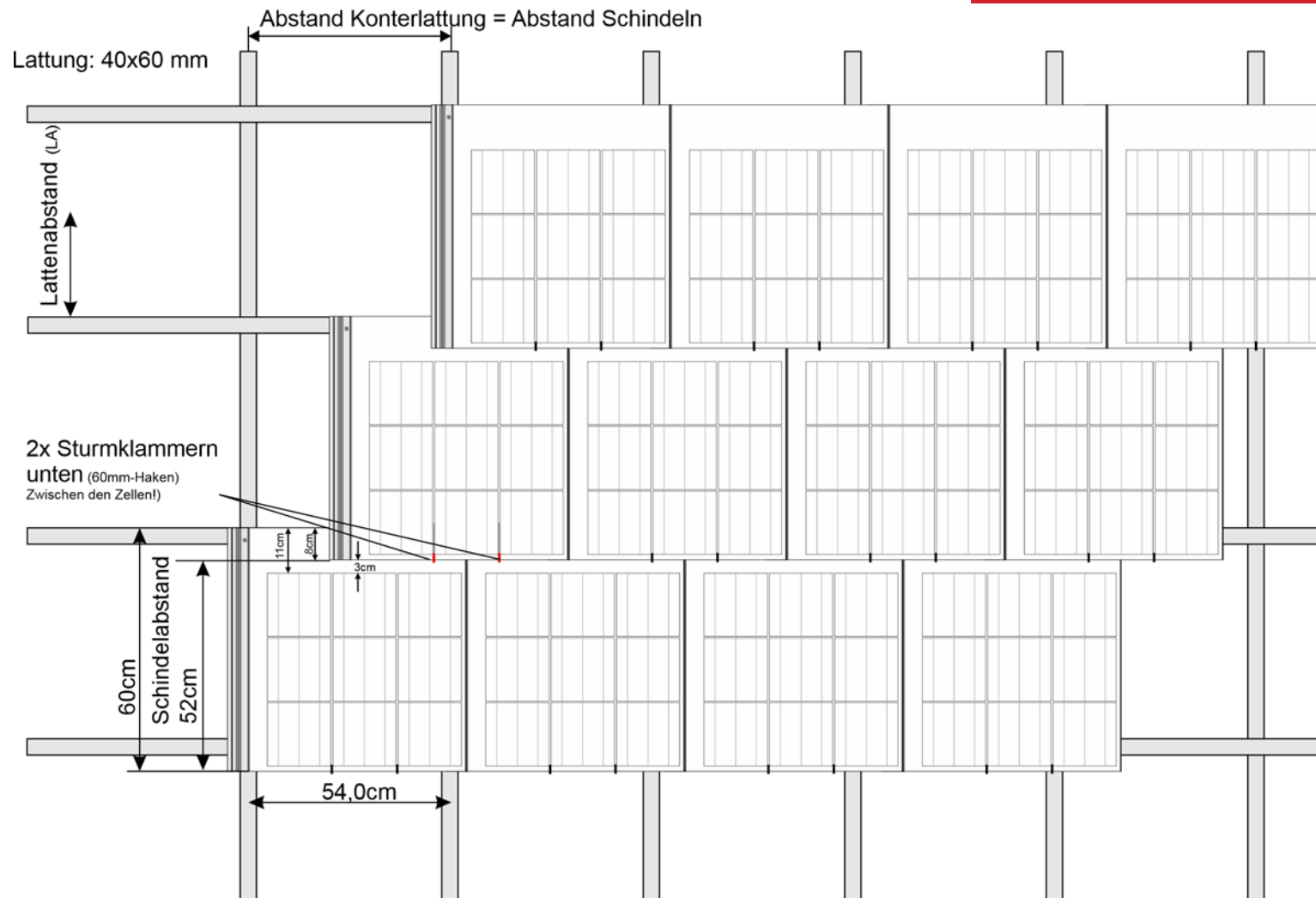
Schnürabstand / Lattenabstand: = Sichtfläche

Minimal:	51,5 cm
Optimal:	52,0 cm - bei 8cm Überlappung
Maximal:	52,5 cm

Laying, standard on single battens, increased storm resistance

OPTION - Suspension Var.2: Single battens + storm clip below

ECONOMICAL LATTENING
Stormproof up to CAT3



Abstände Konterlattung = Achsabstand Schindeln horizontal

Minimal:	54,0 cm
Optimal:	54,0 cm
Maximal:	54,0 cm

Schnürabstand / Lattenabstand: = Sichtfläche

Minimal:	51,5 cm
Optimal:	52,0 cm - bei 8cm Überlappung
Maximal:	52,5 cm

Regeldachneigung 22 °

Minstdachneigung 10 °

Befestigung über Einhängen + 1x Verschraubung

Menge pro m²: ca. 4 St. bei LA = 50cm

Achtung: Untere Zusatzhaken sind Option für besonders windreiche Regionen, wie z.B. Nordsee-Region und sind nicht in der Standard-Variante inbegriffen

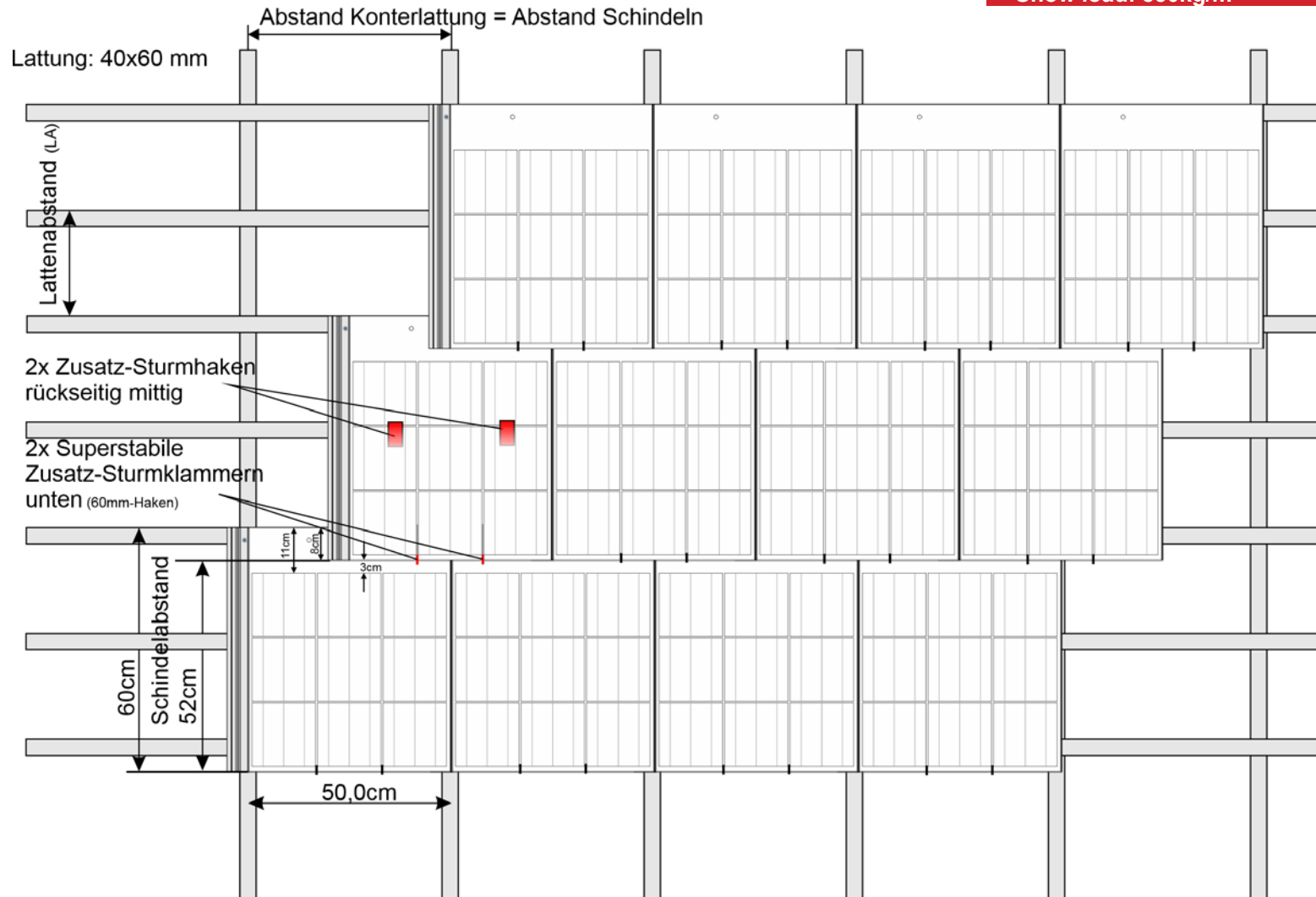
Laying double battens for extreme storm regions with snow loads

OPTION - Suspension Var.3: Double battens + stable aluminum hooks in the middle on the back + storm clip at the bottom

EXTREMELY HIGH STORM RESISTANCE

Stormproof up to CAT4

Snow load: 850kg/m²



Abstände Konterlattung = Achsabstand Schindeln horizontal

Minimal: 50,0 cm

Optimal: 50,0 cm

Maximal: 50,0 cm

Schnürabstand / Lattenabstand: = Sichtfläche

Minimal: 25,5 cm

Optimal: 26,0 cm - bei 8cm Überlappung

Maximal: 26,5 cm

Regeldachneigung 22 °

Minstdachneigung 10 °

Befestigung über Einhängen + 1x Verschraubung

Menge pro m²: ca. 4 St. bei LA = 50cm

Achtung: Untere Zusatzhaken sind Option für besonders windreiche Regionen, wie z.B. Nordsee-Region und sind nicht in der Standard-Variante inbegriffen

Quad54 - 540x600mm - Wider for snow hooks

Laying double battens for extreme storm regions with high snow loads using snow hooks

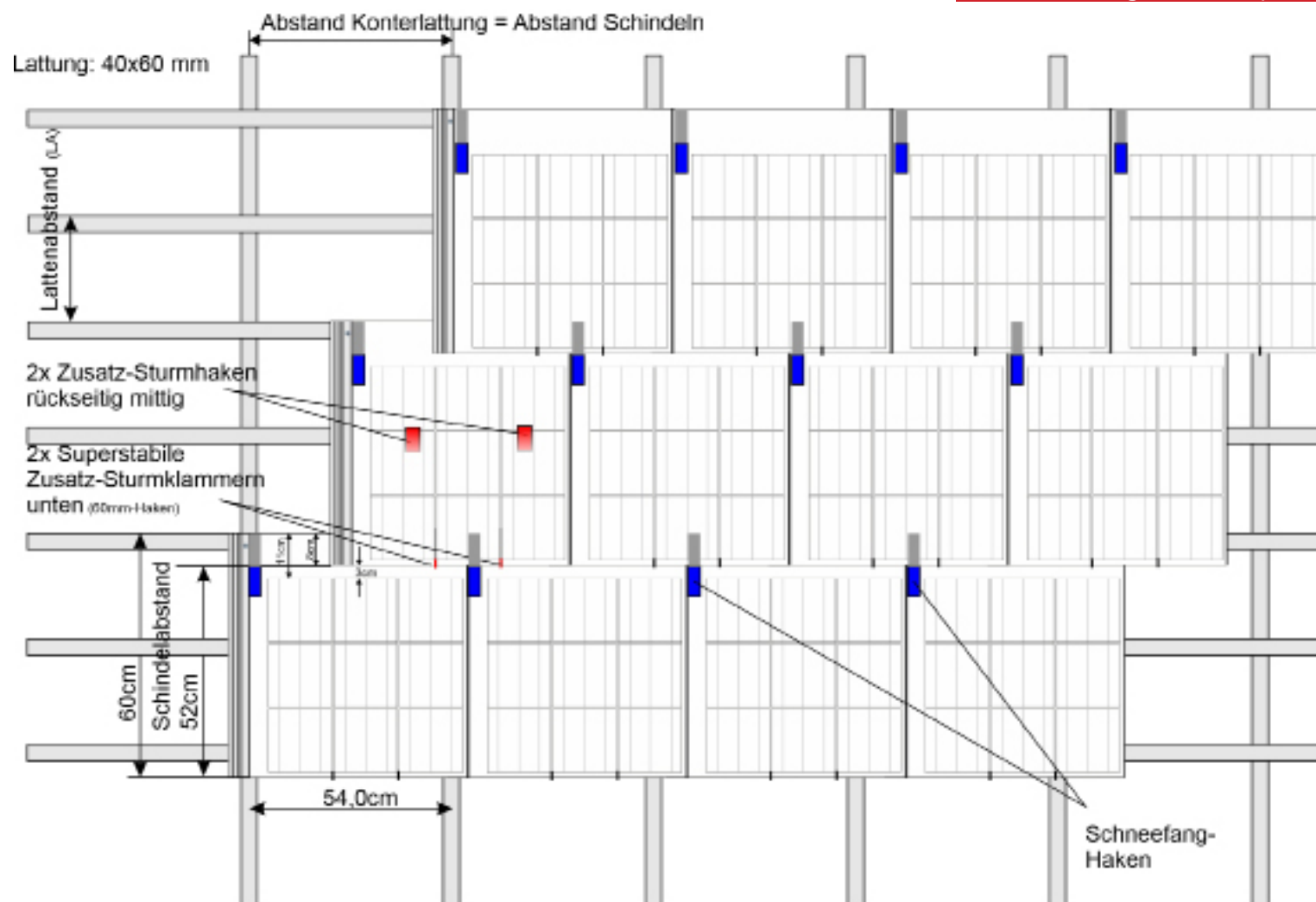
OPTION - Suspension Var.3: Double battens + stable aluminum hooks in the middle on the back + storm clip at the bottom

EXTREMELY HIGH STORM RESISTANCE

Stormproof up to CAT4

Snow load: 850kg/m²

With snow guard hook (accessory)



Abstände Konterlattung = Achsabstand Schindeln horizontal

Minimal:	54,0 cm
Optimal:	54,0 cm
Maximal:	54,0 cm

Schnüraabstand / Lattenabstand: = Sichtfläche

Minimal:	25,5 cm
Optimal:	26,0 cm - bei 8cm Überlappung
Maximal:	26,5 cm

Regeldachneigung 22 °

Minstdachneigung 10 °

Befestigung über Einhängen + 1x Verschraubung

Menge pro m²: ca. 4 St. bei LA = 50cm

Achtung: Untere Zusatzhaken sind Option für besonders windreiche Regionen, wie z.B. Nordsee-Region und sind nicht in der Standard-Variante inbegriffen

**Quad 50 hall roofing
as a roof replacement**

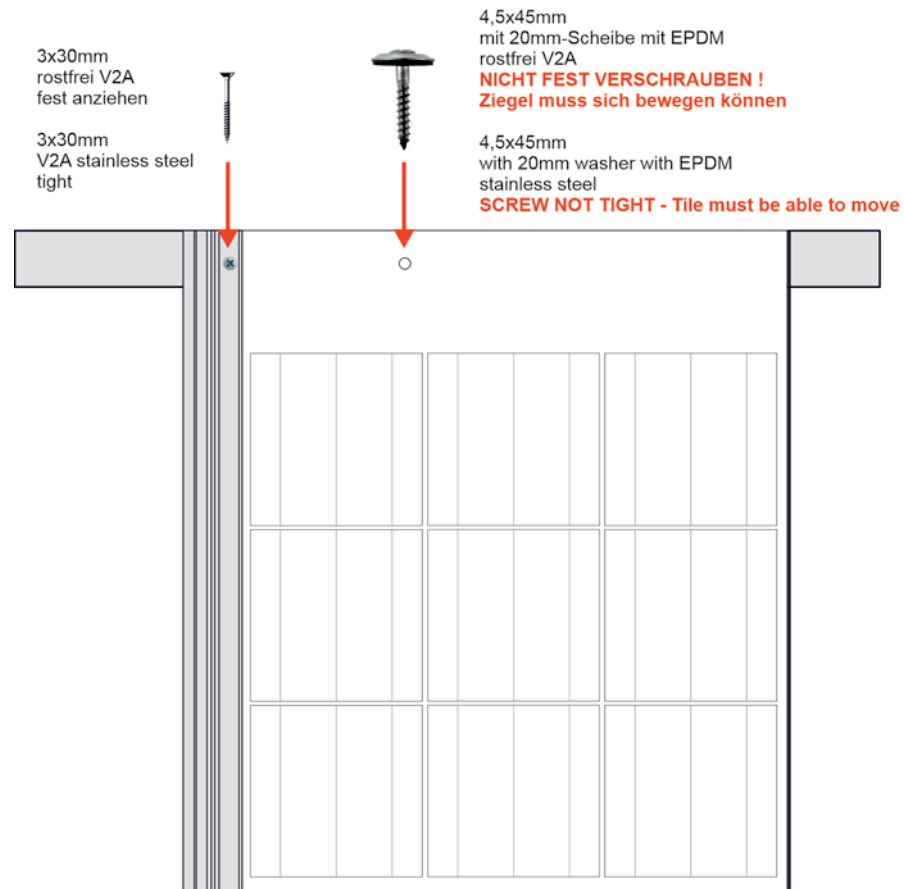
**Top right picture:
Quad50 with SolteQ light lines.
The entire roof consists of one system,
without transitions to other elements. This
ensures 100% rain protection on the entire
roof surface.**

**Picture bottom right and bottom left:
Direct installation onto the existing, old
roof using simple battens.**

**Simple and cost-effective roof replace-
ment... simply perfect!**



Attachment



Important NOTE:

SOLTEQ solar tiles are rainproof as standard. We recommend using an additional, waterproof, breathable film in the sub-roof.



Integrated plumbing ventilation Integrated completely invisibly.

Condensation water flows outwards through the built-in water supply.

Available from double size format

Material: aluminum 3mm

Minimum roof pitch: 25°

*SolteQ-SZ-Integrated sanitary ventilation - only for horizontal version -
Integrated completely invisibly.
Item no.: 51095*

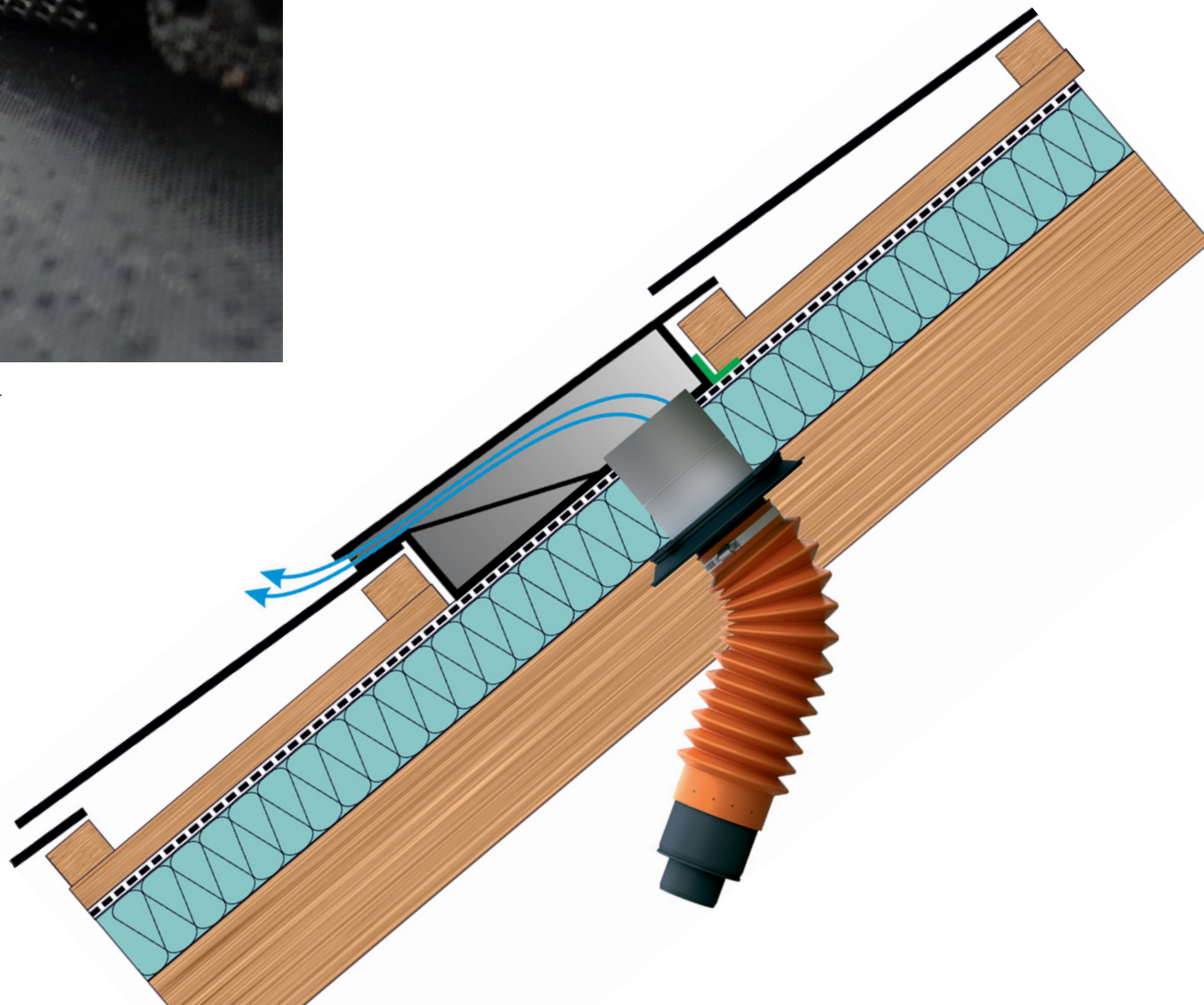
Condensation water flows outwards through the built-in water supply.

Material: aluminum 3mm

Color: powder-coated in solar tile color

Minimum roof pitch: 25°

Connection: flexible pipe, DN100



Ventilation elements for exhaust air and supply air

Ready-made ventilation elements for every SolteQ roof shingle variant in the right color for the roof.

Short fan set DN 100

The ventilation set is completely mounted on the matching roof shingle you have chosen.

- Integrated condensate drainage
- Improved exhaust air values
- Installation parallel to the roof surface, optimized for use with insulation passages
- Available in all colors that match the selected SolteQ roof shingle
- Optionally as a thermally insulated version for more living comfort through optimized sound insulation.

Material: brittle-free, UV-resistant special PVC

Pressure losses with air flow: 4 pa at 15 l/sec, 16 pa at 30 l/sec, 66 pa at 60 l/sec

Ventilation cross section (LQ): 78.5 cm²

Roof pitch: adjustable

General resistance: resistant to rotting, weather, frost and aging

Temperature resistance: -20°C / +80°C

Building material class: B2

Data sheets and installation instructions can be downloaded at <http://www.kloeber.de>

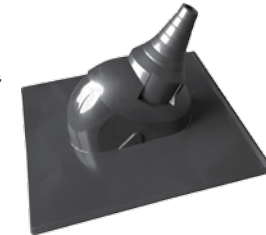


Flex connection hoses Klöber-DN 100

Universal bushing, e.g. for air conditioning hoses



Bushing for satellite dish mast Tilt adjustable



Lightning protection / surge arrester

To protect against surges, we offer suitable surge arresters for every property, both for the DC system and for the data lines.



Hooking points

For protection during roof work



Steps

For mounting on aluminum shingles



Technical specification

BASIC DATA AND MECHANICAL CONSTRUCTION

Brick type Quad50 series
 Cell material mono-/polycrystalline silicon (for color)
 Cell size (wxh): 156 x 156 mm
 Brick dimensions (wxh): see variants
 Weight see table
 Weight per m² see table
 Delivery: in 1', 3', 6' chains
 Cooling single module rear ventilation
 MC 4 connector
 Connection cables 2x approx. 50 cm, 2.5mm²
 Bypass diodes 1 diode
 Glass thickness / type of glass approx. 4 mm, prismatic
 DIN EN 12150-1 | 2019-08, Glass in construction, option: DIN EN 14179-1
 Toughened safety laminated glass, thermally toughened and hardened
 Mechanical load 8,500 Pa/m² = 8.5kN/m² = 850 kg/m²
 Snow load class: 2 (8.50 kN/m² = 850kg), snow load class 3 (11.00 kN/m²) possible on request.
 Laminates on the back is UV and weather resistant
 Roof pitch: pitched roof / flat roof / facade 10 - 90°

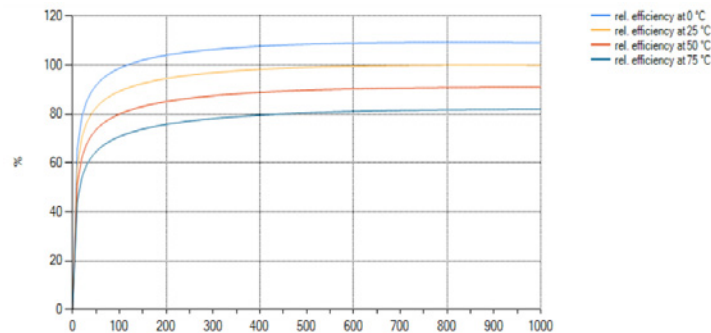
ELECTRICAL DATA*

Performance tolerance at STC approx. +/-3%
 Max. system voltage 1000 V DC
 Operating temperature range -40°C to +85°C

Material guarantee: 20 years
 Performance 15 years: 90% of the nominal performance
 Power 25 years: 85% of nominal power
 Performance 40 years: 80% of the nominal performance
 Preliminary Product lifespan >> 50 years with > 85% of nominal power
 Preliminary Degradation: 1% / 10 years
 Spare parts guarantee: 30 years
 Performance guarantee: for monocrystalline cells: 40 years with 80% of the installed power for polycrystalline cells: 20 years with 80% of the installed power

- DATA SEE TABLE -

Cells: Mono / PERC



TEMPERATURE COEFFICIENTS

UOC - 0,06 ± 0,02% / K
 ISC + 0,022 ± 0,0015% / K
 PMPP - 0,08 ± 0,05% / K
 Values measured with active rear ventilation and standard test conditions

Low light behavior

Intensity [W/m ²]	V _{mpp} * [%]	Imp _{pp} * [%]
1000	0	0
900	-0,3	-10
500	-1,94	-50
300	-3,91	-70
200	-6,06	-80

The electrical data applies at 25 °C and AM 1.5 (IEC 60904-3 ed.2 2008).

DATA SAFETY FIRE SHUTOFF BFA (option) - see separate data sheet -

Number of modules no restriction
 Exams carried out by: TPS Intercert, RETI
 Detector specification: EN54-11, Type B
 Tested according to standards: VDE0100-537, or IEC60364-5-537_VDE0100-537 and E VDE-AR-E 2100-712:((2010-09))

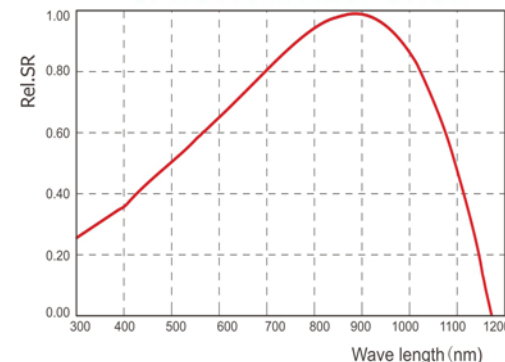
CERTIFICATES / Warranty - Solar Roof Shingle -

Certificates CE, TPS Intercert (Technical Testing Center for Solar Technology), RETI, IEC61215, Safety IEC EN 61730, Salt corrosion tested IEC EN 61701
 UL 61730, TAS 100, TAS 107, ASTM E108 Class "C"
 Wind loads: Highest wind load zone and higher according to DIN 1055-4
 Rain safety: Rain safety compliant with CEN/TR 15601
 Frost resistance: 100% frost-resistant, glass does not absorb water or moisture
 Hail impact test: IEC 61215, hail resistance class 6 (60mm)
 Ammonia corrosion test: IEC 62716
 Protection class II, IP65
 Building regulations: compliant with the rules of the DIBt (MBO) and Rules of the roofing trade
 Stability compliant with the rules of the list of technical building regulations
 Fire behavior: flame retardant, Fire Class 1 according to UNI 9177, hard roofing according to DIN4102
 Breaking behavior: ESG safety glass DIN EN 12150, increased impact and shock resistance, increased bending resistance, small glass fragments (injury-preventing crumb formation).
 General approval of the assembly device: compliant with CE, CSTB, DIBt, ZVDH, compliant with the Construction Products Regulation (BauPVO)

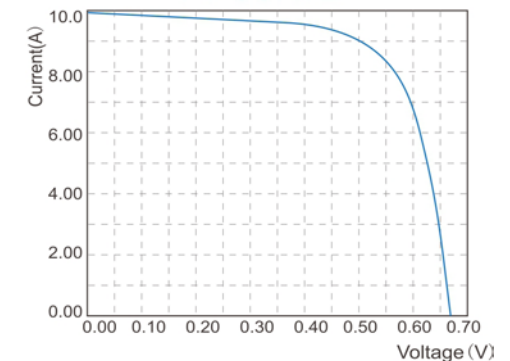
STANDARD TEST CONDITIONS (STC)

E=1000W/m² AM=1.5 T=25°C
 Fire protection class - PV shingle -
 Front: solar glass, tempered/prismatic
 Back: PYE/PET (Polyethylene Terephthalate)
 Special features: mech. Safety suspension
 Certificates: Tested according to ANSI/UL94 (Tests for Flammability of Plastic Materials for Parts in Devices and Appliances), IEC60695-2-12/13 + IEC60695-10-2, IEC60112, ISO75-2, ISO527-2, ISO178, ISO179-2, ISO180)

SPECTRAL RESPONSE



I-V CURVE



Danger! All values and performance information in this catalog are guide values and not guaranteed values! The performance of the cells changes from batch to batch and due to constant technical progress. The colors of the delivered products may also differ slightly or greatly from the images. Performance information is a guideline and depends on the final installation and location. The SLV / low light effect depends on the location and location and cannot be guaranteed. You get this performance advantage of up to 20% for free!

* This electrical Parameters are typical average values from historical production data. Values and data may vary from production batch to production batch. This also applies to color deviations, reflections, shimmer or moiré effects.

Awarded the environmental seal for particularly energy-saving and environmentally conscious technology "The Green Tree"



	item number	Article text short	Uoc / Tile	Ump / Tile	Isc / A	Impp / A	Efficiency / %	Rated power per tile	Rule quantity per square meter	Rule quantity per kWp	Weight per square meter in kg	Weight per piece in kg	Performance/ qm in Wp	m² / kWp
	101500	Quad50-ZGB (500x600mm, Zwischengummi, intermediate sealing, Lattung / Batten installation)												
SQ	101501	Quad50-ZGB-Premium-Anthrazit-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	101502	Quad50-ZGB-Premium-Anthrazit-Plus-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	101503	Quad50-ZGB-Premium-Anthrazit-passiv-Glass							4,00					
SQ	101504	Quad50-ZGB-Premium-Anthrazit-passiv-halbe-Glass							8,00					
SQ	101505	Quad50-ZGB-Premium-Anthrazit-passiv-ALU							4,00					
SQ	101511	Quad50-ZGB-Schiefergrau/Slategray	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	101512	Quad50-ZGB-Schiefergrau/Slategray-PLUS	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	101513	Quad50-ZGB-Schiefergrau/Slategray-Passiv							4,00					
SQ	101514	Quad50-ZGB-Schiefergrau/Slategray-Passiv-Halfsize							8,00					
SQ	101515	Quad50-ZGB-Schiefergrau/Slategray-ALU							4,00					
SQ	101521	Quad50-ZGB-Basaltgrau / dark gray	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	101522	Quad50-ZGB-Basaltgrau / dark gray-PLUS	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	101523	Quad50-ZGB-Basaltgrau / dark gray-Passive							4,00					
SQ	101524	Quad50-ZGB-Basaltgrau / dark gray-Passive-Halfsize							8,00					
SQ	101525	Quad50-ZGB-Basaltgrau / dark gray-ALU							4,00					
SQ	101531	Quad50-ZGB-Ziegelrot / Brick red	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101532	Quad50-ZGB-Ziegelrot / Brick red-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101533	Quad50-ZGB-Ziegelrot / Brick red-Passiv							4,00					
SQ	101534	Quad50-ZGB-Ziegelrot / Brick red-Passiv-Halfsize							8,00					
SQ	101535	Quad50-ZGB-Ziegelrot / Brick red-ALU							4,00					
SQ	101541	Quad50-ZGB-Terracotta	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101542	Quad50-ZGB-Terracotta-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101543	Quad50-ZGB-Terracotta-Passiv							4,00					
SQ	101544	Quad50-ZGB-Terracotta-Passiv-Halfsize							8,00					
SQ	101545	Quad50-ZGB-Terracotta-Passiv-ALU							4,00					
		Zubehör												
SQ	101595	Quad50-ZGB-Fiber/Concrete, colored							4,00					
SQ	101596	Quad50-ZGB-Lichtzelle 1fach							4,00					
SQ	101597	Quad50-ZGB-Lichtzelle 2fach							2,00					
SQ	101598	Quad50-ZGB-Integrierte Sanitär-Entlüftung							1,00					

Note: Services and area values are given as a guideline and are subject to change. Different cut variants and batten dimensions result in different values.

*Technical changes and errors reserved. Similar pictures.
Data and performance values are guidelines and can change at any time.*

	item number	Article text short	Uoc / Tile	Ump / Tile	Isc / A	Imp / A	Efficiency / %	Rated power per tile	Rule quantity per square meter	Rule quantity per kWp	Weight per square meter in kg	Weight per piece in kg	Performance/qm in Wp	m² / kWp
	101600	Quad50-ZGDD (500x600mm, Zwischengummi, intermediate sealing, Holzverschalung / direct deck install)												
SQ	101601	Quad50-ZGDD-Premium-Anthrazit-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	101602	Quad50-ZGDD-Premium-Anthrazit-Plus-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	101603	Quad50-ZGDD-Premium-Anthrazit-passiv-Glass							4,00					
SQ	101604	Quad50-ZGDD-Premium-Anthrazit-passiv-halbe-Glass							8,00					
SQ	101605	Quad50-ZGDD-Premium-Anthrazit-passiv-ALU							4,00					
SQ	101611	Quad50-ZGDD-Schiefergrau/Slategray	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	101612	Quad50-ZGDD-Schiefergrau/Slategray-PLUS	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	101613	Quad50-ZGDD-Schiefergrau/Slategray-Passiv							4,00					
SQ	101614	Quad50-ZGDD-Schiefergrau/Slategray-Passiv-Halfsize							8,00					
SQ	101615	Quad50-ZGDD-Schiefergrau/Slategray-ALU							4,00					
SQ	101621	Quad50-ZGDD-Basaltgrau / dark gray	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	101622	Quad50-ZGDD-Basaltgrau / dark gray-PLUS	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	101623	Quad50-ZGDD-Basaltgrau / dark gray-Passive							4,00					
SQ	101624	Quad50-ZGDD-Basaltgrau / dark gray-Passive-Halfsize							8,00					
SQ	101625	Quad50-ZGDD-Basaltgrau / dark gray-ALU							4,00					
SQ	101631	Quad50-ZGDD-Ziegelrot / Brick red	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101632	Quad50-ZGDD-Ziegelrot / Brick red-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101633	Quad50-ZGDD-Ziegelrot / Brick red-Passiv							4,00					
SQ	101634	Quad50-ZGDD-Ziegelrot / Brick red-Passiv-Halfsize							8,00					
SQ	101635	Quad50-ZGDD-Ziegelrot / Brick red-ALU							4,00					
SQ	101641	Quad50-ZGDD-Terracotta	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101642	Quad50-ZGDD-Terracotta-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101643	Quad50-ZGDD-Terracotta-Passiv							4,00					
SQ	101644	Quad50-ZGDD-Terracotta-Passiv-Halfsize							8,00					
SQ	101645	Quad50-ZGDD-Terracotta-ALU							4,00					
		Zubehör												
SQ	101695	Quad50-ZGDD-Fiber/Concrete, colored							4,00					
SQ	101696	Quad50-ZGDD-Lichtzeile 1fach							4,00					
SQ	101697	Quad50-ZGDD-Lichtzeile 2fach							2,00					
SQ	101698	Quad50-ZGDD-Integrierte Sanitär-Entlüftung							1,00					

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	item number	Article text short	Uoc / Tile	Umpp / Tile	Isc / A	Impp / A	Efficiency / %	Rated power per tile	Rule quantity per square meter	Rule quantity per kWp	Weight per square meter in kg	Weight per piece in kg	Performance/gm in Wp	m² / kWp
	101700	Quad50-Interlock-B (500x600mm, Lattung / Battens installation)												
SQ	101701	Quad50-Interlock-B-Premium-Anthrazit-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	101702	Quad50-Interlock-B-Premium-Anthrazit-Plus-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	101703	Quad50-Interlock-B-Premium-Anthrazit-passiv-Glass							4,00					
SQ	101704	Quad50-Interlock-B-Premium-Anthrazit-passiv-halbe-Glass							8,00					
SQ	101705	Quad50-Interlock-B-Premium-Anthrazit-passiv-ALU							4,00					
SQ	101711	Quad50-Interlock-B-Schiefergrau/Slategray	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	101712	Quad50-Interlock-B-Schiefergrau/Slategray-PLUS	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	101713	Quad50-Interlock-B-Schiefergrau/Slategray-Passiv							4,00					
SQ	101714	Quad50-Interlock-B-Schiefergrau/Slategray-Passiv-Halfsize							8,00					
SQ	101715	Quad50-Interlock-B-Schiefergrau/Slategray-Passiv-ALU							4,00					
SQ	101721	Quad50-Interlock-B-Basaltgrau / dark gray	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	101722	Quad50-Interlock-B-Basaltgrau / dark gray-PLUS	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	101723	Quad50-Interlock-B-Basaltgrau / dark gray-Passive							4,00					
SQ	101724	Quad50-Interlock-B-Basaltgrau / dark gray-Passive-Halfsize							8,00					
SQ	101725	Quad50-Interlock-B-Basaltgrau / dark gray-Passive-ALU							4,00					
SQ	101731	Quad50-Interlock-B-Ziegelrot / Brick red	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101732	Quad50-Interlock-B-Ziegelrot / Brick red-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101733	Quad50-Interlock-B-Ziegelrot / Brick red-Passiv							4,00					
SQ	101734	Quad50-Interlock-B-Ziegelrot / Brick red-Passiv-Halfsize							8,00					
SQ	101735	Quad50-Interlock-B-Ziegelrot / Brick red-Passiv-ALU							4,00					
SQ	101741	Quad50-Interlock-B-Terracotta	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101742	Quad50-Interlock-B-Terracotta-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101743	Quad50-Interlock-B-Terracotta-Passiv							4,00					
SQ	101744	Quad50-Interlock-B-Terracotta-Passiv-Halfsize							8,00					
SQ	101745	Quad50-Interlock-B-Terracotta-Passiv-ALU							4,00					
		Zubehör												
SQ	101795	Quad50-Interlock-B-Fiber/Concrete, colored							4,00					
SQ	101796	Quad50-Interlock-B-Lichtzeile 1fach							4,00					
SQ	101797	Quad50-Interlock-B-Lichtzeile 2fach							2,00					
SQ	101798	Quad50-Interlock-B-Integrierte Sanitär-Entlüftung							1,00					

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	item number	Article text short	Uoc / Tile	Umpp / Tile	Isc / A	Impp / A	Efficiency / %	Rated power per tile	Rule quantity per square meter	Rule quantity per kWp	Weight per square meter in kg	Weight per piece in kg	Performance/qm in Wp	m² / kWp
	101800	Quad50-Interlock-DD (500x600mm, Holzverschalung / direct deck install)												
SQ	101801	Quad50-Interlock-DD-Premium-Anthrazit-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	101802	Quad50-Interlock-DD-Premium-Anthrazit-Plus-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	101803	Quad50-Interlock-DD-Premium-Anthrazit-passiv-Glass							4,00					
SQ	101804	Quad50-Interlock-DD-Premium-Anthrazit-passiv-halbe-Glass							8,00					
SQ	101805	Quad50-Interlock-DD-Premium-Anthrazit-passiv-ALU							4,00					
SQ	101811	Quad50-Interlock-DD-Schiefergrau/Slategray	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	101812	Quad50-Interlock-DD-Schiefergrau/Slategray-PLUS	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	101813	Quad50-Interlock-DD-Schiefergrau/Slategray-Passiv							4,00					
SQ	101814	Quad50-Interlock-DD-Schiefergrau/Slategray-Passiv-Halfsize							8,00					
SQ	101815	Quad50-Interlock-DD-Schiefergrau/Slategray-Passiv-ALU							4,00					
SQ	101821	Quad50-Interlock-DD-Basaltgrau / dark gray	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	101822	Quad50-Interlock-DD-Basaltgrau / dark gray-PLUS	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	101823	Quad50-Interlock-DD-Basaltgrau / dark gray-Passive							4,00					
SQ	101824	Quad50-Interlock-DD-Basaltgrau / dark gray-Passive-Halfsize							8,00					
SQ	101825	Quad50-Interlock-DD-Basaltgrau / dark gray-Passive-ALU							4,00					
SQ	101831	Quad50-Interlock-DD-Ziegelrot / Brick red	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101832	Quad50-Interlock-DD-Ziegelrot / Brick red-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101833	Quad50-Interlock-DD-Ziegelrot / Brick red-Passiv							4,00					
SQ	101834	Quad50-Interlock-DD-Ziegelrot / Brick red-Passiv-Halfsize							8,00					
SQ	101835	Quad50-Interlock-DD-Ziegelrot / Brick red-Passiv-ALU							4,00					
SQ	101841	Quad50-Interlock-DD-Terracotta	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101842	Quad50-Interlock-DD-Terracotta-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	101843	Quad50-Interlock-DD-Terracotta-Passiv							4,00					
SQ	101844	Quad50-Interlock-DD-Terracotta-Passiv-Halfsize							8,00					
SQ	101845	Quad50-Interlock-DD-Terracotta-Passiv-ALU							4,00					
		Zubehör												
SQ	101895	Quad50-Interlock-DD-Fiber/Concrete, colored							4,00					
SQ	101896	Quad50-Interlock-DD-Lichtzeile 1fach							4,00					
SQ	101897	Quad50-Interlock-DD-Lichtzeile 2fach							2,00					
SQ	101898	Quad50-Interlock-DD-Integrierte Sanitär-Entlüftung							1,00					

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	item number	Article text short	Uoc / Tile	Umpp / Tile	Isc / A	Impp / A	Efficiency / %	Rated power per tile	Rule quantity per square meter	Rule quantity per kWp	Weight per square meter in kg	Weight per piece in kg	Performance/qm in Wp	m² / kWp
	102000	Quad54-ZGB (540x600mm für Schneefanghaken, Zwischengummi, intermediate sealing, Batten installation)												
SQ	102001	Quad54-ZGB-Premium-Anthrazit-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	102002	Quad54-ZGB-Premium-Anthrazit-Plus-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	102003	Quad54-ZGB-Premium-Anthrazit-passiv-Glass							4,00					
SQ	102004	Quad54-ZGB-Premium-Anthrazit-passiv-halbe-Glass							8,00					
SQ	102005	Quad54-ZGB-Premium-Anthrazit-passiv-ALU							4,00					
SQ	102011	Quad54-ZGB-Schiefergrau/Slategray	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	102012	Quad54-ZGB-Schiefergrau/Slategray-PLUS	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	102013	Quad54-ZGB-Schiefergrau/Slategray-Passiv							4,00					
SQ	102014	Quad54-ZGB-Schiefergrau/Slategray-Passiv-Halfsize							8,00					
SQ	102015	Quad54-ZGB-Schiefergrau/Slategray-ALU							4,00					
SQ	102021	Quad54-ZGB-Basaltgrau / dark gray	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	102022	Quad54-ZGB-Basaltgrau / dark gray-PLUS	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	102023	Quad54-ZGB-Basaltgrau / dark gray-Passive							4,00					
SQ	102024	Quad54-ZGB-Basaltgrau / dark gray-Passive-Halfsize							8,00					
SQ	102025	Quad54-ZGB-Basaltgrau / dark gray-ALU							4,00					
SQ	102031	Quad54-ZGB-Ziegelrot / Brick red	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102032	Quad54-ZGB-Ziegelrot / Brick red-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102033	Quad54-ZGB-Ziegelrot / Brick red-Passiv							4,00					
SQ	102034	Quad54-ZGB-Ziegelrot / Brick red-Passiv-Halfsize							8,00					
SQ	102035	Quad54-ZGB-Ziegelrot / Brick red-ALU							4,00					
SQ	102041	Quad54-ZGB-Terracotta	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102042	Quad54-ZGB-Terracotta-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102043	Quad54-ZGB-Terracotta-Passiv							4,00					
SQ	102044	Quad54-ZGB-Terracotta-Passiv-Halfsize							8,00					
SQ	102045	Quad54-ZGB-Terracotta-Passiv-ALU							4,00					
		Zubehör												
SQ	102095	Quad54-ZGB-Fiber/Concrete, colored							4,00					
SQ	102096	Quad54-ZGB-Lichtzeile 1fach							4,00					
SQ	102097	Quad54-ZGB-Lichtzeile 2fach							2,00					
SQ	102098	Quad54-ZGB-Integrierte Sanitär-Entlüftung							1,00					

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	102100	Quad54-ZGDD (540x600mm für Schneefanghaken, Zwischengummi, intermediate sealing, direct deck install)												
SQ	102101	Quad54-ZGDD-Premium-Anthrazit-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	102102	Quad54-ZGDD-Premium-Anthrazit-Plus-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	102103	Quad54-ZGDD-Premium-Anthrazit-passiv-Glass							4,00					
SQ	102104	Quad54-ZGDD-Premium-Anthrazit-passiv-halbe-Glass							8,00					
SQ	102105	Quad54-ZGDD-Premium-Anthrazit-passiv-ALU							4,00					
SQ	102111	Quad54-ZGDD-Schiefergrau/Slategray	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	102112	Quad54-ZGDD-Schiefergrau/Slategray-PLUS	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	102113	Quad54-ZGDD-Schiefergrau/Slategray-Passiv							4,00					
SQ	102114	Quad54-ZGDD-Schiefergrau/Slategray-Passiv-Halfsize							8,00					
SQ	102115	Quad54-ZGDD-Schiefergrau/Slategray-ALU							4,00					
SQ	102121	Quad54-ZGDD-Basaltgrau / dark gray	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	102122	Quad54-ZGDD-Basaltgrau / dark gray-PLUS	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	102123	Quad54-ZGDD-Basaltgrau / dark gray-Passive							4,00					
SQ	102124	Quad54-ZGDD-Basaltgrau / dark gray-Passive-Halfsize							8,00					
SQ	102125	Quad54-ZGDD-Basaltgrau / dark gray-ALU							4,00					
SQ	102131	Quad54-ZGDD-Ziegelrot / Brick red	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102132	Quad54-ZGDD-Ziegelrot / Brick red-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102133	Quad54-ZGDD-Ziegelrot / Brick red-Passiv							4,00					
SQ	102134	Quad54-ZGDD-Ziegelrot / Brick red-Passiv-Halfsize							8,00					
SQ	102135	Quad54-ZGDD-Ziegelrot / Brick red-ALU							4,00					
SQ	102141	Quad54-ZGDD-Terracotta	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102142	Quad54-ZGDD-Terracotta-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102143	Quad54-ZGDD-Terracotta-Passiv							4,00					
SQ	102144	Quad54-ZGDD-Terracotta-Passiv-Halfsize							8,00					
SQ	102145	Quad54-ZGDD-Terracotta-ALU							4,00					
		Zubehör												
SQ	102195	Quad54-ZGDD-Fiber/Concrete, colored							4,00					
SQ	102196	Quad54-ZGDD-Lichtzelle 1fach							4,00					
SQ	102197	Quad54-ZGDD-Lichtzelle 2fach							2,00					
SQ	102198	Quad54-ZGDD-Integrierte Sanitär-Entlüftung							1,00					

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	102200	Quad54-Interlock-B (540x600mm für Schneefanghaken, Batten installation)												
SQ	102201	Quad54-Interlock-B-Premium-Anthrazit-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	102202	Quad54-Interlock-B-Premium-Anthrazit-Plus-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	102203	Quad54-Interlock-B-Premium-Anthrazit-passiv-Glass							4,00					
SQ	102204	Quad54-Interlock-B-Premium-Anthrazit-passiv-halbe-Glass							8,00					
SQ	102205	Quad54-Interlock-B-Premium-Anthrazit-passiv-ALU							4,00					
SQ	102211	Quad54-Interlock-B-Schiefergrau/Slategray	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	102212	Quad54-Interlock-B-Schiefergrau/Slategray-PLUS	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	102213	Quad54-Interlock-B-Schiefergrau/Slategray-Passiv							4,00					
SQ	102214	Quad54-Interlock-B-Schiefergrau/Slategray-Passiv-Halfsize							8,00					
SQ	102215	Quad54-Interlock-B-Schiefergrau/Slategray-Passiv-ALU							4,00					
SQ	102221	Quad54-Interlock-B-Basaltgrau / dark gray	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	102222	Quad54-Interlock-B-Basaltgrau / dark gray-PLUS	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	102223	Quad54-Interlock-B-Basaltgrau / dark gray-Passive							4,00					
SQ	102224	Quad54-Interlock-B-Basaltgrau / dark gray-Passive-Halfsize							8,00					
SQ	102225	Quad54-Interlock-B-Basaltgrau / dark gray-Passive-ALU							4,00					
SQ	102231	Quad54-Interlock-B-Ziegelrot / Brick red	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102232	Quad54-Interlock-B-Ziegelrot / Brick red-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102233	Quad54-Interlock-B-Ziegelrot / Brick red-Passiv							4,00					
SQ	102234	Quad54-Interlock-B-Ziegelrot / Brick red-Passiv-Halfsize							8,00					
SQ	102235	Quad54-Interlock-B-Ziegelrot / Brick red-Passiv-ALU							4,00					
SQ	102241	Quad54-Interlock-B-Terracotta	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102242	Quad54-Interlock-B-Terracotta-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102243	Quad54-Interlock-B-Terracotta-Passiv							4,00					
SQ	102244	Quad54-Interlock-B-Terracotta-Passiv-Halfsize							8,00					
SQ	102245	Quad54-Interlock-B-Terracotta-Passiv-ALU							4,00					
		Zubehör												
SQ	102295	Quad54-Interlock-B-Fiber/Concrete, colored							4,00					
SQ	102296	Quad54-Interlock-B-Lichtzeile 1fach							4,00					
SQ	102297	Quad54-Interlock-B-Lichtzeile 2fach							2,00					
SQ	102298	Quad54-Interlock-B-Integrierte Sanitär-Entlüftung							1,00					

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	Item number	Article text short	Uoc / Tile	Umpp / Tile	Isc / A	Impp / A	Efficiency / %	Rated power per tile	Rule quantity per square meter	Rule quantity per kWp	Weight per square meter in kg	Weight per piece in kg	Performance/gm in Wp	m² / kWp
	102300	Quad54-Interlock-DD (540x600mm für Schneefanghaken, direct deck install)												
SQ	102301	Quad54-Interlock-DD-Premium-Anthrazit-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	102302	Quad54-Interlock-DD-Premium-Anthrazit-Plus-PERC	6,02	5,11	9,93	9,51	22,80%	48,60	4,00	20,6	14,00	3,50	194,40	5,1
SQ	102303	Quad54-Interlock-DD-Premium-Anthrazit-passiv-Glass							4,00					
SQ	102304	Quad54-Interlock-DD-Premium-Anthrazit-passiv-halbe-Glass							8,00					
SQ	102305	Quad54-Interlock-DD-Premium-Anthrazit-passiv-ALU							4,00					
SQ	102311	Quad54-Interlock-DD-Schiefergrau/Slategray	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	102312	Quad54-Interlock-DD-Schiefergrau/Slategray-PLUS	5,63	4,74	7,83	7,37	19,24%	36,00	4,00	27,8	14,00	3,50	144,00	6,9
SQ	102313	Quad54-Interlock-DD-Schiefergrau/Slategray-Passiv							4,00					
SQ	102314	Quad54-Interlock-DD-Schiefergrau/Slategray-Passiv-Halfsize							8,00					
SQ	102315	Quad54-Interlock-DD-Schiefergrau/Slategray-Passiv-ALU							4,00					
SQ	102321	Quad54-Interlock-DD-Basaltgrau / dark gray	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	102322	Quad54-Interlock-DD-Basaltgrau / dark gray-PLUS	5,64	4,75	7,43	7,02	18,22%	33,00	4,00	30,3	14,00	3,50	132,01	7,6
SQ	102323	Quad54-Interlock-DD-Basaltgrau / dark gray-Passive							4,00					
SQ	102324	Quad54-Interlock-DD-Basaltgrau / dark gray-Passive-Halfsize							8,00					
SQ	102325	Quad54-Interlock-DD-Basaltgrau / dark gray-Passive-ALU							4,00					
SQ	102331	Quad54-Interlock-DD-Ziegelrot / Brick red	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102332	Quad54-Interlock-DD-Ziegelrot / Brick red-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102333	Quad54-Interlock-DD-Ziegelrot / Brick red-Passiv							4,00					
SQ	102334	Quad54-Interlock-DD-Ziegelrot / Brick red-Passiv-Halfsize							8,00					
SQ	102335	Quad54-Interlock-DD-Ziegelrot / Brick red-Passiv-ALU							4,00					
SQ	102341	Quad54-Interlock-DD-Terracotta	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102342	Quad54-Interlock-DD-Terracotta-PLUS	5,61	4,71	7,83	7,37	16,75%	38,25	4,00	26,1	14,00	3,50	153,00	6,5
SQ	102343	Quad54-Interlock-DD-Terracotta-Passiv							4,00					
SQ	102344	Quad54-Interlock-DD-Terracotta-Passiv-Halfsize							8,00					
SQ	102345	Quad54-Interlock-DD-Terracotta-Passiv-ALU							4,00					
		Zubehör												
SQ	102395	Quad54-Interlock-DD-Fiber/Concrete, colored							4,00					
SQ	102396	Quad54-Interlock-DD-Lichtzeile 1fach							4,00					
SQ	102397	Quad54-Interlock-DD-Lichtzeile 2fach							2,00					
SQ	102398	Quad54-Interlock-DD-Integrierte Sanitär-Entlüftung							1,00					

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