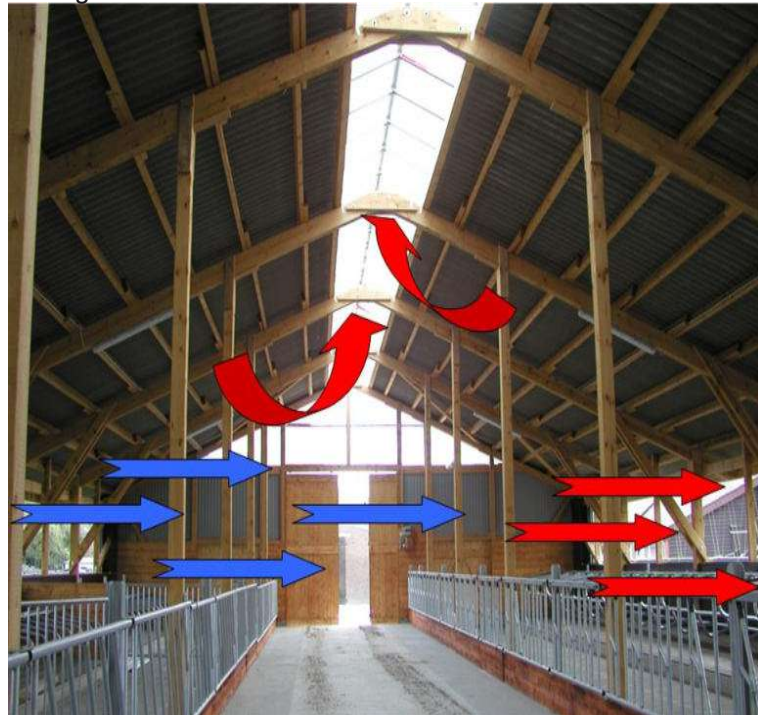


## Arntjen ISO Lighting / Ventilation Ridges

Light and ventilation – a twofold gain!

### Ventilation and exhaust systems for cubicle barns

The extraction of exhausted air is just as important as the supply of fresh air. This is because the volume of air flowing back into the shed is limited to the volume of air that exited the shed previously. An efficient venting system ensures that water vapor and, thereby, germs, ammonium, CO<sup>2</sup> and other harmful gases are extracted continuously from the shed.



Only a shed that is virtually free of harmful gases will allow a cow to perform at its best. During the summer months, cross ventilation forces the bulk of the consumed air to escape from the open curtains on the shed side averted from the wind. The heated air collecting above the eave line, i. e. in the triangles of the roof pitches, is supposed to escape or be extracted through the ridge.


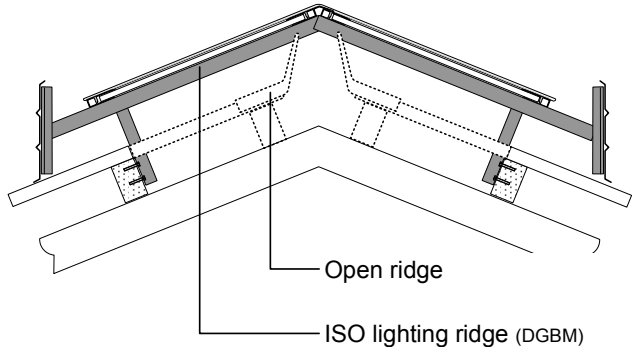
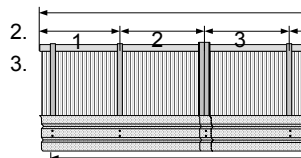

When the curtains are kept closed in the fall, winter and spring, the largest portion of the air is extracted through the ridge.

The right size of the opening is calculated as 0.15 sqm per cow. However, another decisive factor is the shape of the opening.




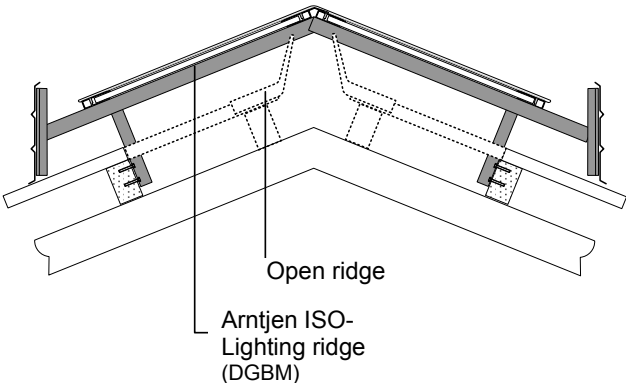




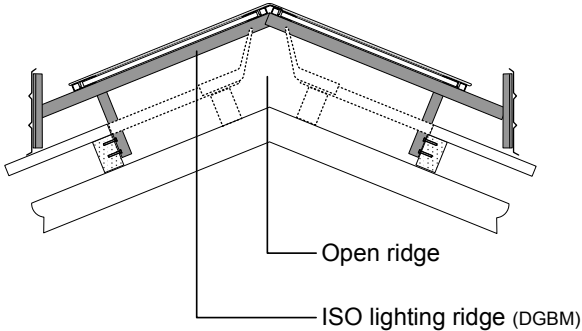
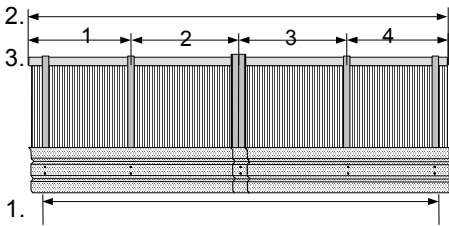

Arntjen ISO lighting/ventilation ridge on top of a milking parlor


Arntjen ISO lighting/ventilation ridge on top of a shed in the USA

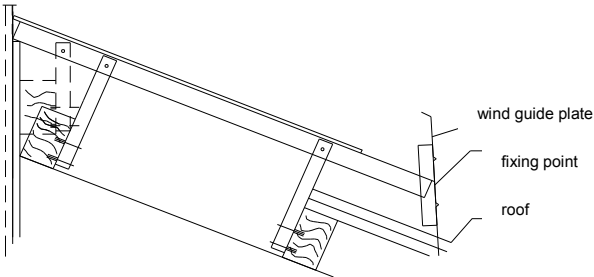
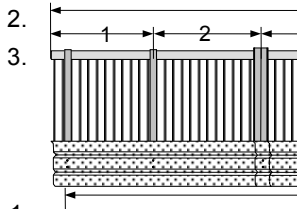
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<b>Arntjen ISO Lighting Ridge M4 type Germany/ Simplex</b>  <ul style="list-style-type: none"> <li>Outstanding air extraction</li> <li>No driving rain in the shed</li> <li>Ideal light source for the building</li> <li>Improved comfort for the animals</li> <li>Significant energy savings thanks to lower lighting costs</li> <li>Air exit up to 72 cm (type LA80)</li> <li>High wind deflectors</li> <li>Light inlet 100 – 350 cm</li> <li>Light dispersion thanks to opal light panel</li> <li>High-quality aluminum profiles</li> <li>Stainless steel screw connections</li> </ul>  <p><b>How much does an open ridge cost? How much is a lighting/ventilation ridge?</b>  <b>Example:</b> Open ridge €120 to €150 per meter length.  ISO lighting ridge from approx. €120 per meter length</p> <p><b>As you can see, an ISO lighting/ventilation ridge does not cost anything extra!</b></p> <p><b>Other benefits:</b></p> <ul style="list-style-type: none"> <li>- Reliable exhaust air extraction</li> <li>- more day light</li> <li>- dry shed</li> </ul> <p><b>In areas with heavy snow loads,</b> large snow accumulations must be cleared off the ridge as they will otherwise represent an unresolvable variable in the calculation of the snow, snow-water or snow-ice loads pushing on the wind deflectors and result in damage. We offer a line of reinforcing accessories that supplement our ISO lighting ridge to provide for increased stability in these areas. If you are dealing with extensive snow loads, we will be happy to prepare a quote for you!</p>	<b>ISO Lighting Ridge M4 (DBGM)</b> <b>type Germany / Simplex</b> stable aluminum substructures with a section distance of 105.7 cm and Double H-profile, single-part including aluminum "Z-Form" wind guide plate including ISO light panel 10 mm with UV protection Color: "Opal" (white/ transparent), Clear (transparent) on request, including special stainless steel bolts without brush strip <b>Smallest structural element 1.057 meters!</b> <table> <tr> <th>Purlin spacing</th><th>Type</th><th></th></tr> <tr><td>100 cm</td><td>LA 40</td><td>s0406</td></tr> <tr><td>125 cm</td><td>LA 40</td><td>s0407</td></tr> <tr><td>150 cm</td><td>LA 40</td><td>s0408</td></tr> <tr><td>175 cm</td><td>LA 40</td><td>s0409</td></tr> <tr><td>200 cm</td><td>LA 40</td><td>s0410</td></tr> <tr><td>225 cm</td><td>LA 40</td><td>s0411</td></tr> <tr><td>250 cm</td><td>LA 40</td><td>s0412</td></tr> <tr><td>275 cm</td><td>LA 40</td><td>s0910</td></tr> <tr><td>300 cm</td><td>LA 40</td><td>s0911</td></tr> <tr><td>325 cm</td><td>LA 40</td><td>s0912</td></tr> <tr><td>350 cm</td><td>LA 40</td><td>s0913</td></tr> <tr><td>100 cm</td><td>LA 60</td><td>s0413</td></tr> <tr><td>125 cm</td><td>LA 60</td><td>s0414</td></tr> <tr><td>150 cm</td><td>LA 60</td><td>s0415</td></tr> <tr><td>175 cm</td><td>LA 60</td><td>s0416</td></tr> <tr><td>200 cm</td><td>LA 60</td><td>s0417</td></tr> <tr><td>225 cm</td><td>LA 60</td><td>s0418</td></tr> <tr><td>250 cm</td><td>LA 60</td><td>s0419</td></tr> <tr><td>275 cm</td><td>LA 60</td><td>s0916</td></tr> <tr><td>300 cm</td><td>LA 60</td><td>s0917</td></tr> <tr><td>325 cm</td><td>LA 60</td><td>s0918</td></tr> <tr><td>350 cm</td><td>LA 60</td><td>s0919</td></tr> <tr><td>100 cm</td><td>LA 80</td><td>s0922</td></tr> <tr><td>125 cm</td><td>LA 80</td><td>s0923</td></tr> <tr><td>150 cm</td><td>LA 80</td><td>s0924</td></tr> <tr><td>175 cm</td><td>LA 80</td><td>s0925</td></tr> <tr><td>200 cm</td><td>LA 80</td><td>s0926</td></tr> <tr><td>225 cm</td><td>LA 80</td><td>s0927</td></tr> <tr><td>250 cm</td><td>LA 80</td><td>s0928</td></tr> <tr><td>275 cm</td><td>LA 80</td><td>s0929</td></tr> <tr><td>300 cm</td><td>LA 80</td><td>s0930</td></tr> <tr><td>325 cm</td><td>LA 80</td><td>s0931</td></tr> <tr><td>350 cm</td><td>LA 80</td><td>s0932</td></tr> </table> <p><b>Brush strip 80 mm per meter ridge</b>  Adjusts to the roof membrane and keeps off wind and snow.  Including aluminum rail and drilling screws  Gable cladding see sheet 4, ventilation flap see sheet 8  <b>Important for this ridge:</b>  - prices are valid for roof slopes between 20-24°  - roof material "W5" installation direct on purlins  - prices for other roof slopes, higher roof structures, different roof constructions, and higher or different roof materials (tiled roofs, insulated roof panels), etc.: <b>see ISO Lighting Ridge M4 type Germany/Vari-Tec</b>  Please request a quote.</p> <p><b>Length of ridge:</b> The length of the ridge to order is calculated by the opening length plus the desired overlapping at the ends. This length must be rounded up to a length that is divisible by the structural elements.</p> 	Purlin spacing	Type		100 cm	LA 40	s0406	125 cm	LA 40	s0407	150 cm	LA 40	s0408	175 cm	LA 40	s0409	200 cm	LA 40	s0410	225 cm	LA 40	s0411	250 cm	LA 40	s0412	275 cm	LA 40	s0910	300 cm	LA 40	s0911	325 cm	LA 40	s0912	350 cm	LA 40	s0913	100 cm	LA 60	s0413	125 cm	LA 60	s0414	150 cm	LA 60	s0415	175 cm	LA 60	s0416	200 cm	LA 60	s0417	225 cm	LA 60	s0418	250 cm	LA 60	s0419	275 cm	LA 60	s0916	300 cm	LA 60	s0917	325 cm	LA 60	s0918	350 cm	LA 60	s0919	100 cm	LA 80	s0922	125 cm	LA 80	s0923	150 cm	LA 80	s0924	175 cm	LA 80	s0925	200 cm	LA 80	s0926	225 cm	LA 80	s0927	250 cm	LA 80	s0928	275 cm	LA 80	s0929	300 cm	LA 80	s0930	325 cm	LA 80	s0931	350 cm	LA 80	s0932	
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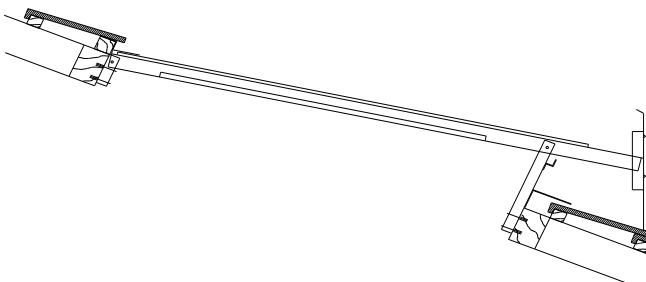
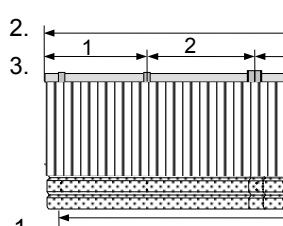
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<p><b>Arntjen ISO-Lighting ridge M4 Type Germany/Vari-Tec</b></p>  <p>Ridge profile, 2-part</p>  <p>brush strip</p>  <ul style="list-style-type: none"> <li>- air exit up to 80 cm</li> <li>- ridge top with optional 8 cm opening</li> </ul> <p>For easier installation:</p> <ul style="list-style-type: none"> <li>- ridge top profile, 2-part</li> <li>- wind deflector across 2 panels</li> <li>- brush strip installation with drilling screws</li> </ul>  <p>Open ridge</p> <p>Arntjen ISO-Lighting ridge (DGBM)</p> <p><b>What does an open ridge cost? What does a lighting ridge cost?</b>  <b>Example:</b> Open ridge €120 to €150 per meter length.  ISO lighting ridge from approx. €120 per meter length  <b>You see an ISO lighting ridge is not more expensive!!</b>  <b>More benefits:</b></p> <ul style="list-style-type: none"> <li>- Reliable exhaust air extraction</li> <li>- more day light</li> <li>- dry shed</li> </ul> <p><b>In "snowy regions"</b> the ridge has to disburdened from big snow masses, otherwise a not calculable snow-, snow-water- or snow-ice burden presses on the wind-deflector and could result in damages. To get a higher rigidity in these regions you will find tightening material in our ISO-lighting ridge accessories</p>	<p><b>ISO-Lighting Ridge M4 (DGBM) Type Germany/Vari-Tec</b>  stable aluminum substructures with a section distance of 105.7 cm and  <b>Ridge top profile, 2-part</b>  including aluminum "Z-Form" wind guide plate  including ISO light panel 10 mm with UV protection  Color: "Opal" (white/ transparent)  including special stainless steel bolts  with optional ridge top opening  without brush strip  <b>Smallest structural element 1.057 meters!</b>  <b>Please clarify statics before ordering.</b></p> <table> <tr> <th>Purlin distance</th><th>Type</th><th></th></tr> <tr><td>100 cm</td><td>LA 40</td><td>s0367</td></tr> <tr><td>125 cm</td><td>LA 40</td><td>s0368</td></tr> <tr><td>150 cm</td><td>LA 40</td><td>s0291</td></tr> <tr><td>175 cm</td><td>LA 40</td><td>s0292</td></tr> <tr><td>200 cm</td><td>LA 40</td><td>s0293</td></tr> <tr><td>225 cm</td><td>LA 40</td><td>s0294</td></tr> <tr><td>250 cm</td><td>LA 40</td><td>s0295</td></tr> <tr><td>275 cm</td><td>LA 40</td><td>s0296</td></tr> <tr><td>300 cm</td><td>LA 40</td><td>s0297</td></tr> <tr><td>325 cm</td><td>LA 40</td><td>s0298</td></tr> <tr><td>350 cm</td><td>LA 40</td><td>s0299</td></tr> <tr><td>100 cm</td><td>LA 60</td><td>s0369</td></tr> <tr><td>125 cm</td><td>LA 60</td><td>s0370</td></tr> <tr><td>150 cm</td><td>LA 60</td><td>s0302</td></tr> <tr><td>175 cm</td><td>LA 60</td><td>s0303</td></tr> <tr><td>200 cm</td><td>LA 60</td><td>s0304</td></tr> <tr><td>225 cm</td><td>LA 60</td><td>s0305</td></tr> <tr><td>250 cm</td><td>LA 60</td><td>s0306</td></tr> <tr><td>275 cm</td><td>LA 60</td><td>s0307</td></tr> <tr><td>300 cm</td><td>LA 60</td><td>s0308</td></tr> <tr><td>325 cm</td><td>LA 60</td><td>s0309</td></tr> <tr><td>350 cm</td><td>LA 60</td><td>s0310</td></tr> <tr><td>100 cm</td><td>LA 80</td><td>s0371</td></tr> <tr><td>125 cm</td><td>LA 80</td><td>s0372</td></tr> <tr><td>150 cm</td><td>LA 80</td><td>s0313</td></tr> <tr><td>175 cm</td><td>LA 80</td><td>s0314</td></tr> <tr><td>200 cm</td><td>LA 80</td><td>s0315</td></tr> <tr><td>225 cm</td><td>LA 80</td><td>s0316</td></tr> <tr><td>250 cm</td><td>LA 80</td><td>s0317</td></tr> <tr><td>275 cm</td><td>LA 80</td><td>s0318</td></tr> <tr><td>300 cm</td><td>LA 80</td><td>s0319</td></tr> <tr><td>325 cm</td><td>LA 80</td><td>s0320</td></tr> <tr><td>350 cm</td><td>LA 80</td><td>s0321</td></tr> </table> <p><b>Brush strip 80 mm</b> per meter ridge  Adjusts to the roof membrane and keeps off wind and snow.  Including aluminum rail and drilling screws  Gable cladding see sheet 4, ventilation flap see sheet 8</p> <p><b>The prices apply to a purlin spacing of</b>  <b>100 - 250 cm for roof pitches of 15-29°</b>  <b>275 - 350 cm for roof pitches of 20-24°</b></p> <ul style="list-style-type: none"> <li>- roof material "W5" installation direct on purlins</li> <li>- prices for other roof slopes, higher roof structures, different roof constructions, and higher or different roof materials (tiled roofs, insulated roof panels) as well as ridges with ventilation flaps, etc. available on request.</li> </ul> <p><b>Length of ridge:</b> The length of the ridge to order is calculated by the opening length plus the desired overlapping at the ends. 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<p><b>Arntjen ISO Lighting Ridge M4 Type Germany/Vari-Tec</b></p>  <ul style="list-style-type: none"> <li>- air exit up to 80 cm</li> <li>For easier installation:</li> <li>- wind deflector across 2 panels</li> <li>- brush strip installation with drilling screws</li> </ul>  <p>Open ridge ISO lighting ridge (DGBM)</p> <p><b>How much does an open ridge cost? How much is a lighting/ventilation ridge?</b>  <b>Example:</b> Open ridge €120 to €150 per meter length.  ISO lighting ridge from approx. €120 per meter length</p> <p><b>As you can see, an ISO lighting/ventilation ridge does not cost anything extra!</b></p> <p><b>Other benefits:</b></p> <ul style="list-style-type: none"> <li>- Reliable exhaust air extraction</li> <li>- more day light</li> <li>- dry shed</li> </ul> <p><b>In areas with heavy snow loads,</b> large snow accumulations must be cleared off the ridge as they will otherwise represent an unresolvable variable in the calculation of the snow, snow-water or snow-ice loads pushing on the wind deflectors and result in damage. We offer a line of reinforcing accessories that supplement our ISO lighting ridge to provide for increased stability in these areas.</p> <p>1. Opening length 2. Ridge length 3. Elements</p> 	<p><b>ISO Lighting Ridge M4 type Germany/Vari-Tec with 16 mm light panel</b></p> <p>stable aluminum substructures with a section distance of 105.7 cm and Ridge top profile, 2-part including aluminum "Z-Form" wind guide plate including ISO light panel 16 mm with UV protection Color: Clear (transparent) including special stainless steel bolts without brush strip Smallest structural element 1.057 meters!</p> <p><u>Please clarify statics before ordering.</u></p> <table> <tr> <th>Purlin spacing</th><th>Type</th><th></th></tr> <tr><td>100 cm</td><td>LA 40</td><td>s0456</td></tr> <tr><td>125 cm</td><td>LA 40</td><td>s0457</td></tr> <tr><td>150 cm</td><td>LA 40</td><td>s0458</td></tr> <tr><td>175 cm</td><td>LA 40</td><td>s0459</td></tr> <tr><td>200 cm</td><td>LA 40</td><td>s0460</td></tr> <tr><td>225 cm</td><td>LA 40</td><td>s0461</td></tr> <tr><td>250 cm</td><td>LA 40</td><td>s0462</td></tr> <tr><td>275 cm</td><td>LA 40</td><td>s0463</td></tr> <tr><td>300 cm</td><td>LA 40</td><td>s0464</td></tr> <tr><td>325 cm</td><td>LA 40</td><td>s0465</td></tr> <tr><td>350 cm</td><td>LA 40</td><td>s0466</td></tr> <tr><td>100 cm</td><td>LA 60</td><td>s0469</td></tr> <tr><td>125 cm</td><td>LA 60</td><td>s0470</td></tr> <tr><td>150 cm</td><td>LA 60</td><td>s0471</td></tr> <tr><td>175 cm</td><td>LA 60</td><td>s0472</td></tr> <tr><td>200 cm</td><td>LA 60</td><td>s0473</td></tr> <tr><td>225 cm</td><td>LA 60</td><td>s0474</td></tr> <tr><td>250 cm</td><td>LA 60</td><td>s0475</td></tr> <tr><td>275 cm</td><td>LA 60</td><td>s0476</td></tr> <tr><td>300 cm</td><td>LA 60</td><td>s0477</td></tr> <tr><td>325 cm</td><td>LA 60</td><td>s0478</td></tr> <tr><td>350 cm</td><td>LA 60</td><td>s0479</td></tr> <tr><td>100 cm</td><td>LA 80</td><td>s0482</td></tr> <tr><td>125 cm</td><td>LA 80</td><td>s0483</td></tr> <tr><td>150 cm</td><td>LA 80</td><td>s0484</td></tr> <tr><td>175 cm</td><td>LA 80</td><td>s0485</td></tr> <tr><td>200 cm</td><td>LA 80</td><td>s0486</td></tr> <tr><td>225 cm</td><td>LA 80</td><td>s0487</td></tr> <tr><td>250 cm</td><td>LA 80</td><td>s0488</td></tr> <tr><td>275 cm</td><td>LA 80</td><td>s0489</td></tr> <tr><td>300 cm</td><td>LA 80</td><td>s0490</td></tr> <tr><td>325 cm</td><td>LA 80</td><td>s0491</td></tr> <tr><td>350 cm</td><td>LA 80</td><td>s0492</td></tr> </table> <p><b>Brush strip 80 mm</b> per meter ridge Adjusts to the roof membrane and keeps off wind and snow. Including aluminum rail and drilling screws</p> <p>Gable cladding see sheet 4 , ventilation flaps see sheet 8</p> <p><b>The prices apply to a purlin spacing of</b>  <b>100 - 250 cm for roof pitches of 15-29°</b>  <b>275 - 350 cm for roof pitches of 20-24°</b></p> <ul style="list-style-type: none"> <li>- roof material "W5" installation direct on purlins</li> <li>- prices for other roof slopes, higher roof structures, different roof constructions, and higher or different roof materials (tiled roofs, insulated roof panels) as well as ridges with ventilation flaps, etc. available on request.</li> </ul> <p><b>Length of ridge:</b> The length of the ridge to order is calculated by the opening length plus the desired overlap at the ends. This length must be rounded up to a length that is divisible by the structural elements.</p>	Purlin spacing	Type		100 cm	LA 40	s0456	125 cm	LA 40	s0457	150 cm	LA 40	s0458	175 cm	LA 40	s0459	200 cm	LA 40	s0460	225 cm	LA 40	s0461	250 cm	LA 40	s0462	275 cm	LA 40	s0463	300 cm	LA 40	s0464	325 cm	LA 40	s0465	350 cm	LA 40	s0466	100 cm	LA 60	s0469	125 cm	LA 60	s0470	150 cm	LA 60	s0471	175 cm	LA 60	s0472	200 cm	LA 60	s0473	225 cm	LA 60	s0474	250 cm	LA 60	s0475	275 cm	LA 60	s0476	300 cm	LA 60	s0477	325 cm	LA 60	s0478	350 cm	LA 60	s0479	100 cm	LA 80	s0482	125 cm	LA 80	s0483	150 cm	LA 80	s0484	175 cm	LA 80	s0485	200 cm	LA 80	s0486	225 cm	LA 80	s0487	250 cm	LA 80	s0488	275 cm	LA 80	s0489	300 cm	LA 80	s0490	325 cm	LA 80	s0491	350 cm	LA 80	s0492	
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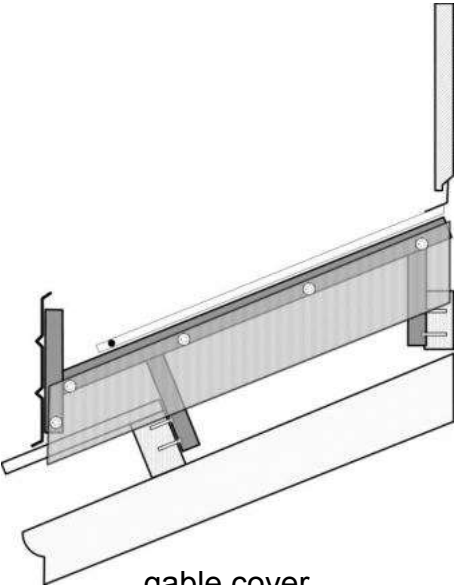
components	description	ord-No.
 <p>gable cover</p>	<b>ISO-lighting ridge accessories:</b>	
	<b>additional price for wind guide plates in different colours (grey, brown, red):</b>	
	for LA 40 per m ridge	06147
	for LA 60 per m ridge	06148
	for LA 80 per m ridge	06149
	<b>supports "Z-Form"</b>	
	for extended roof price per piece	00423
	<b>gable cover, Alu</b> ( 4 plates with screws for 2 gables )	
	width 100-200 air exit LA40 per set	s0397
	width 225-300 air exit LA40 per set	s0398
	width 325-400 air exit LA40 per set	s0399
	width 100-200 air exit LA60 per set	s0400
	width 225-300 air exit LA60 per set	s0401
	width 325-400 air exit LA60 per set	s0402
	width 100-200 air exit LA80 per set	s0403
	width 225-300 air exit LA80 per set	s0404
	width 325-400 air exit LA80 per set	s0405
	<b>gable cover, colored anthracite / brown / red</b> ( 4 plates with screws for 2 gables )	
	width 100-200 air exit LA40 per set	s0495
	width 225-300 air exit LA40 per set	s0496
	width 325-400 air exit LA40 per set	s0497
	width 100-200 air exit LA60 per set	s0498
	width 225-300 air exit LA60 per set	s0499
	width 325-400 air exit LA60 per set	s4002
	width 100-200 air exit LA80 per set	s4003
	width 225-300 air exit LA80 per set	s4004
	width 325-400 air exit LA80 per set	s4005
	<b>installation tools for ridges without flaps</b>	03382
	<b>installation tools for ridges with flaps</b>	03383
	<b>air flaps on page 8</b>	

components	description	ord- No.												
 <p>"Semi" ISO – Lighting ridge M4 type Germany/Vari-Tec</p>	<p><b>Semi ISO Lighting Ridge M4 (DBGM)</b> <b>Type Germany/Vari-Tec</b> stable aluminum substructures with a section distance of 105.7cm <u>including</u> "Z-Form" wind guide aluminum plate <u>including</u> ISO light panel 10 mm with UV protection Color: "Opal" (white/ transparent), clear (transparent) on request <u>including</u> special stainless steel bolts <u>without</u> brush strip Smallest structural element 1.057 meters!</p>													
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	<p><b>Type Germany/Vari-Tec with 16 mm light panel</b> stable aluminum substructures with a section distance of 105.7 cm <u>including</u> aluminum "Z-Form" wind guide plate <u>including</u> ISO light panel 16 mm with UV protection, color: clear (transparent) <u>including</u> special stainless steel bolts <u>without</u> brush strip) Smallest structural element 1.057 meters!</p>													
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<p>important for our complete ridge programme:</p> <ul style="list-style-type: none"><li>- prices are valid for roof slopes between 15° and 29°</li><li>- roof material "W5" installation direct on purlins</li><li>- prices for other roof slopes, different roof constructions and roof materials on request</li></ul>														
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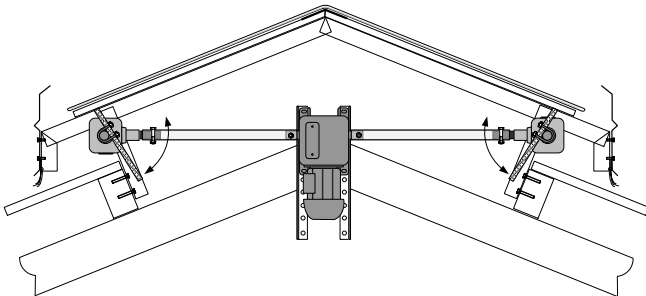


components	description	ord- No.												
 <p>"Single-side" ISO – Lighting ridge M4 type Germany/Vari-Tec</p>	<p><b>Single-sided ISO Lighting Ridge M4 (DBGM) type Germany/Vari-Tec</b> stable aluminum substructures with a section distance of 105.7cm <u>including</u> "Z-Form" wind guide aluminum plate <u>including</u> ISO light panel 10 mm with UV protection Color: "Opal" (white/ transparent), clear (transparent) on request <u>including</u> special stainless steel bolts <u>without</u> brush strip Smallest structural element 1.057 meters!</p>													
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In "snowy regions" the ridge has to disburdened from big snow masses, otherwise a not calculable snow-, snow-water- or snow-ice burden presses on the wind-deflector and could result in damages. To get a higher rigidity in these regions you will find tightening material in our ISO-lighting ridge accessories

components	description	ord-No.
 <p>gable cover</p>	<b>ISO-Lighting ridge accessories for type: Half and One side:</b>	
	<b>additional price for wind guide plates in different colours (grey, brown, red):</b>	
	LA 40 for LA 18 per m ridge	
	<b>gable cover, Alu</b> ( 2 plates with screws for 2 gables) width 100-200 air exit LA 40 for LA 18 per set	
	<b>installation tools</b> for ridges without flaps	03382
	<b>installation tools</b> for ridges with flaps	03383
	air flaps on page 8	



components	description	ord-No.
 <p>Air flaps type L2 open</p>  <p>Air flaps type L2 closed</p>  <p>open-close-equipment with ropes</p>  <p>Open-close-equipment with power drive.</p>	<b>ISO-lighting ridge accessories:</b> <b>air flaps type L2 for 2 sides</b> LA 40 per m ridge s0360 LA 60 per m ridge s0361 LA 80 per m ridge s0362 <b>for 1 side</b> LA 18 per m ridge <b>Open-close-equipment</b> for one side per set s0084 <u>recommended installation locations:</u> end of flap tube – up to 20 m middle of flap tube – up to 40 m <b>Open-close-equipment with power drive for 2 sides:</b> (without electrical work) <b>Power-drive</b> 230 V 50 Hz with 2 deflection gear units, connection parts and fastener material s0262 <b>Main switch</b> in ISO housing lockable repair switch 4-pin, 16 amperes 1 unit per system or building s5381 <b>Open/close switch</b> 230V single phase S5832 <b>Open-close-equipment with power drive for 1 side:</b> (without electrical work) <b>Power-drive</b> 230 V 50 Hz with 1 deflection gear unit, connection parts and fastener material s0263 <b>Main switch</b> in ISO housing lockable repair switch 4-pin, 16 amperes 1 unit per system or building s5381 <b>Open/close switch</b> 230V single phase S5832 <b>Bird protection grid for ventilation flaps</b> galvanized, mesh width 19 x 19 mm LA40 per meter ridge s4006 LA60 per meter ridge s4007 LA80 per meter ridge s4008 <b>Installation tools for ridge with flaps</b> 03383	
<b>Different possibilities of climate-control on request.</b>		