

Technical manual



Translucent Building Elements 40 mm

Made of Polycarbonate for seamless glazings

System PC 2540-10 | PC 2540-7 | PC 2540-6 | PC 2540-4 | PC 2540-4 MC | System AF 50 | System AF 100 and PC 2410-3 |



General Terms and Conditions

Stand: 02/16 -

§ 1

- 1.1 The present General Terms and Conditions exclusively apply to corporations, corporate bodies organized under public law or specialized agencies subject to public law in accordance with §310 section 1 BGB (German Civil
- Code).

 The following Terms and Conditions are exclusively decisive for the Supplier's quotations, deliveries and performances. In current business relationships, the present Terms and Conditions also apply for any contracts concluded in future, even if not expressly agreed upon again.

 Opposite conditions or any conditions deviating from the present Terms and Conditions which are not expressly accepted by the Supplier in writing shall not be valid, even if not expressly objected by the Supplier.

- 2.1
- The Supplier's quotations are subject to change and not binding. A contract between the Parties shall be concluded by the Supplier's written confirmation of the Customer's order or by sending the goods. Oral subsidiary agreements shall not exist.

 The Supplier reserves the property and copyright of all illustrations, drawings, calculations and other documents transmitted to him within the scope of commencement of contract negotiations. The Customer must have obtained the Supplier's express written approval before passing any material to third parties.

§3

- 4.2
- Times of Delivery, Force Majeure

 Times or periods of delivery that may be agreed upon bindingly or non-bindingly have to be made in writing. The time of delivery starts with the conclusion of the contract, however, not before the Customer provided any documents, approvals and securities to be provided by him and not before any down-payments previously agreed upon were made. If a time of delivery has been agreed upon, it shall be delayed by an appropriate period, if the Customer does not provide the documents, approvals and securities to be provided by him in due time and if he does not make any stipulated down-payments in due time.

 According to legal provisions, the Supplier is liable for damage due to delays in performance by the Supplier or his representative or vicarious agents. However, the Supplier's liability for delay is limited to foreseeable losses that are typical for this type of contract.

 Correct and punctual delivery of required materials reserved. The Supplier obliges to immediately inform the Customer about the non-availability of the object to be delivered and in case of withdrawal to immediately refund the relevant consideration to the customer.

 Inevitable, unforeseeable, exceptional events which the Supplier is not responsible for, such as war, official directions, strike, lockouts, holdups, transport problems or other cases of Force Majeure, even of subcontractors, coming into existence after conclusion of contract only or which the Supplier is informed about after conclusion of contract only, suspend the Supplier's contractual obligations for the duration of the problem and with regard to the extension of their effect. If any delays resulting thereof exceed a six week period, both contract partners shall be entitled to withdraw from the contract. The Supplier shall immediately inform the Customer about the nonavailability of the performance and reimburse any payments which may already have been made by the Customer. Other requirements do not exist.
- The Supplier shall be entitled to effect partial deliveries provided that they are reasonable with regard to the rcumstances of the individual cases. Independent of the overall delivery, invoices for partial deliveries have
- If the delivery of a contractual product ready for dispatch is postponed upon the Customer's request by more than one month, or if shipment or acceptance is delayed for reasons which the Customer is responsible for, the Supplier shall be entitled to invoice to the Customer an all in storage fee in the amount of 2 % of the price of the object to be supplied for every month started. The Customer is entitled to proof that the Supplier does not have any loss or a much lower loss. An extended liability in accordance with § 287 BGB (German Civil Code) shall be excluded.

Unless otherwise agreed upon, transport has to be paid by the Customer. Upon the Supplier's request, the Customer shall directly pay or refund the transport costs. The Customer's conditions of shipment are binding for the Supplier only, if the latter confirms them in writing. The Supplier shall conclude any transport insurances on the Customer's account and upon the Customer's explicit request.

The risk of accidental perishing or of accidental deterioration of the goods passes to the Customer as soon as the goods were transferred to the person carrying out the transport or as soon as the goods left the Supplier's distributing warehouse. If shipment becomes impossible without the Supplier's fault, the risk passes to the Customer as soon as the information is given that the goods are ready for dispatch.

§ 7

- Warranty and Liability

 The Customer's warranty rights imply that the Customer meets his obligations to examine and to complain in accordance with § 377 HGB (German Commercial Code). The Customer has to check the goods delivered immediately for defects with regard to quality, quantity, completeness and purpose of use and he has to complain immediately about any defects detected. Otherwise, the goods are considered as being approved. Any complaints are taken into consideration only, if they are made in writing immediately after receipt of the goods or in case of hidden defects, as soon as these are detected. The notice period shall be deemed observed if the letter of cancellation is sent in due time.

 The Customer's warranty rights shall become time-barred within one year from date of shipment of the goods, unless longer delays are bindingly prescribed by the law, in particular in case of goods which were used in accordance with continuous technical with their usual application for any kind of construction work having thus caused their defectiveness. As far as the goods' quality is concerned, the Supplier's product description is basically considered as agreed upon. The product description which is currently valid in accordance with continuous technical further development and improvement of the products as well as the product quality are indicated at www.ncdeca.de. The valid version of such product descriptions and product quality are indicated at www.ncdeca.de. The valid version of such product descriptions and product quality are indicated at www.ncdeca.de. The valid version of such product descriptions and product descriptions are product descriptions.

- public explanations of product properties) do not include any descriptions supplementing or amending such product descriptions.

 If the product supplied does not have the quality defined by and between the Customer and the Supplier in the confirmation of order, the supplier is obliged to supplementary performances. This does not apply, if the Supplier is entitled to refuse supplementary performances according to legal regulations.

 In any case, the Supplier is entitled to select between the elimination of the defects and the delivery of new products. If the supplementary performance falls, the Customer shall be entitled to minimize the loss or to cancel the contract at his own option. The application of § 478 section 1 BGB (German Civil Code) (Right of Recourse) remains untouched. The Customer's right to claim damages instead of supplementary performance in accordance with legal regulations and the present conditions remains untouched. If the Customer wants to claim damage instead of performances or if he wants to remedy the defects himself, a failure of the remety is given only after the second try without success, unless something else results from the type of the mattery is given only after the second try without success, unless something else results from the type of the matter or the defect or other circumstances. For the rest, the legal cases of dispensibility of setting a deadline remain untouched.
- In case of justified claims, the goods can only be returned to the Supplier on the Supplier's account, if after 7.7 In case of justified claims, the goods can only be returned to the Supplier on the Supplier's account, if after information of the defect the Supplier does not offer to pick up or to dispose of the goods. If higher expenses accrue because the customer had the goods transported after delivery to a location different than that of his business premises, the Supplier shall charge the increased expenses for supplementary performance to the Customer, unless the transport is in accordance with the intended use of the matter.

 Any Customer claims against the Supplier resulting from one of the manufacturer guarantees granted to him

- nain untouched.
- Performances that are not part of the warranty shall be charged at the current hourly rates (at present € 100.00/ hour), as well as at € 0.55/kilometer plus legally valid Value Added Tax. This also applies to trips carried out in vain within the scope of supplementary performance measures, if the Customer is not present in spite of an 7.9

Liability, Limitation of Liability **§8**

- Notwithstanding any previous regulations and the subsequent limitations of liability, the Supplier shall be liable without limitation for any damages of life, body and health resulting from a negligent or intended violation of the Supplier's obligations, as well as for damages, subject to liability in accordance with the Product Liability Act, and for all damages resulting from intended or gross negligent violations of the contract or the Supplier shall for the Supplier has given a guarantee of quality and/or durability for the goods or any parts thereof, the Supplier shall also be liable within the scope of this guarantee. For any damages due to a lack of the guarantee quality or durability which however are not detected directly at the goods themselves, the Supplier shall only be liable if the risk of such a damage is evidently subject to the quality or durability guarantee. The liability is limited to foreseeable damages typical for the contract. The limitations of liability shall also apply if the liability for legal representatives expected the supplier is congressed. 8.1 tives, executive employees and other vicarious agents of the supplier is concerned.
- The Supplier shall also be liable for any damages resulting from simple negligence, if said negligence regards the violation of essential contract obligations. Essential contractual obligations are any obligations the fulfillment of which make the appropriate contract execution possible after all and the fulfillment of any doublands are furnished with the supplier shall only be liable if the dampine noted to the contract in a typical manner and if they are foreseable. In case of simple negligient violation of belights after a supplier shall only be liable if the dailingent of obligations that are not essential, the Supplier shall not be liable. These limitations of liability shall spile so evalid, if the liability for legal representatives, executive employees and other vications agents of the Supplier is concerned.

- The sold goods remain the Supplier's property until full payment of all the Supplier's claims resulting from the business relationship with the Customer. This also applies to any future deliveries, even if not always express mentioned by the Supplier.
- mentioned by the Supplier.

 The Customer is obliged to treat the bought goods with utmost care as long as the transfer of ownership has not yet taken place. As long as the ownership has not yet been transferred onto him, the Customer has to inform the Supplier immediately if the supplied object is seized or otherwise exposed to third party's actions. If the Supplier's (co-) ownership seizes to exist due to connection, it is agreed upon already now that the Customer's (co-) ownership of the jointly owned property is passed proportionally to the value of the invoice onto the Supplier. The Customer even assigns such claims to the Supplier roughling for him from the connection of the retained goods with a real estate property of a third party; the Supplier accepts such assignment of a claim already now.
- already now.

 The Customer shall be entitled to further sell goods subject to retention of title within normal business transactions. The claims against third parties resulting from selling the goods in case of a current account agreed with them, it is the relevant balance claims are assigned by the Customer already now in the total amount and/or the amount of a possible co-ownership share (see section 3) to the Supplier for safety purposes. The Customer is entitled to collect them until cancellation or discontinuation of the payments to the Supplier. The Customer is entitled to assign such claims even for the purpose of collecting the outstanding payments within the scope of factoring only in case of the Suppliers wither consent.

 If the realizable value of all security interests the Supplier is entitled to exceeds the amount of all secured claims by more than 20%, the Supplier shall be obliged to release securities upon the Customer's request. The Supplier is entitled to select the security interests to be released.

 Due to the reservation of title, the Supplier is entitled to take back goods even if he did not cancel the contract. Taking back the goods while exerting the reservation of title in the Supplier and the contract. The Customer grants the Supplier and/or any persons authorized by the latter access to the location of the goods. If the legislation the sold goods are subject to does not permit any reservation of title, but allows the Supplier to reserve similar rights at the object delivered, the Customer is obliged to make available to the Supplier a different, adequate security. The Customer is obliged to cooperate with regard to meeting any formal requirements that

- adequate security. The Customer is obliged to cooperate with regard to meeting any formal requirements that might be involved in this matter.

- Unless otherwise agreed upon, the purchase price is due immediately at receipt of goods and invoice without any deduction. The date of payment is the day the money is available to the Supplier. The Supplier accepts any orders under the explicit restriction that the extent of the order does not exceed the credit limit granted to the Buyer by the Supplier's credit insurer, taking into consideration any unsettled amounts of invoices in favor of the Supplier. Drafts and checks are accepted as payment only and exclusively if explicitly agreed upon. The Buyer shall pay any extra costs accruing in this connection.

 In spite of the Customer's different regulations on repayment, any payments made by the Customer are first deducted from the Customer's dietst regulations on repayment, any payments made by the Customer are first deducted from the Customer's dietst regulations on repayment, any payments made by the Customer are first in case of a delay in payment by the Customer, the Supplier shall be entitled to invoice default interests in the amount of eight percentage points above the basic interest rate (§ 247 BGB (German Civil Code)). Subject to reserve to enforcement of a higher damage for delay, if the Supplier claims a higher damage for delay, the Customer has the right to prove that the damage for delay claimed did not accrue as such or at a lesser amount. In case of a dealy of a Customer's payment to the Supplier or any company associated with it and of well-founded doubts with regard to the Customer's ability to pay and/or creditivorthiness, the Supplier shall be entitled to demand securities or down-payments for outstanding deliveries and to immediately make payable any claims from the business relationship. from the business relationship
- The Customer shall be entitled to count up and exert any rights of reserve if his counterclaim is based on the same contractual relationship. As far as counterclaims from other contractual relationships are concerned, the Customer shall be entitled to count up only if his counterclaims are undisputed and established as final and absolute. 10.7

Miscellaneous Provisions § 11

- The legislation of the Federal Republic of Germany shall be valid exclusively. The United Nations Convention on Contracts for the International Sale of Goods as of 11.04.1980 shall be excluded. Place of fulfillment is the relevant point of departure of the goods; for payment, it is Muelheim an der Ruhr. If the Customer is a merchant, a corporate party organized under public law or a specialized agency subject to public law or if he does not have a general place of jurisdiction in Germany, the place of jurisdiction is Muelheim and er Ruhr. However, the Supplier shall be entitled to file suit at the Customer's general place of jurisdiction. The Supplier reserves the right to amend these General Terms and Conditions at any time. The amended Genera Terms and Conditions at any time. The amended General Terms and Conditions with a supplier to the supplier was informed about the consequences of a failure to protest. If any provision of the present General Terms and Conditions or any provision within the scope of other agreements should be or become ineffective or impracticable, the effectiveness of any other provisions or agreements shall not be touched by this. Any inefficient or impracticable provision or agreement shall be replaced by an effective and/or practicable provision or agreement shall be freplaced by an effective and/or practicable provision or agreement shall be Agreement. purpose of this Agreement.

Rodeca GmbH (Version: 03.2014)



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Translucent Building Elements

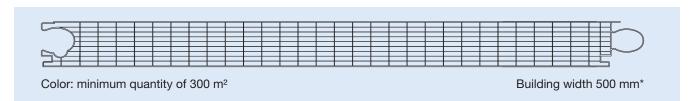
Design Series



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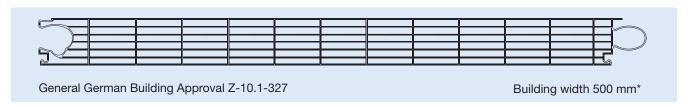
Standard - crystal and opal antiblind

PC 2540-10 Up-Value 0.99 - 1.00 W/m2K**



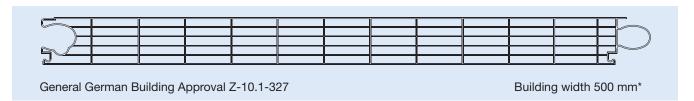
Standard - crystal and opal antiblind

Up-Value 1.00 - 1.20 W/m2K** PC 2540-7



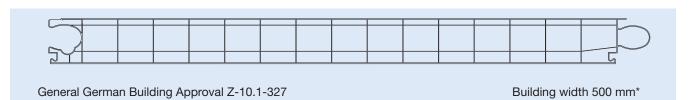
Standard - crystal and opal antiblind

Up-Value 1.10 - 1.20 W/m2K** PC 2540-6



Standard - crystal and opal antiblind

PC 2540-4 MC Up-Value 1.30 - 1.60 W/m2K**



Next to the fire certification according to EN 13501, our products are certified according to other national norms. Additionally to the demands of building approvals and fire certificates our products fulfill the demands of joint tightness and are resistently tested for ball throwing, for hail and pucks according to RODECA warranty statements and supplementary certification reports. We give a ten year product warranty.

Please note general information regarding tolerances

^{**} The Up-values depend on the installation situation, for further details please check our technical manuals and the structural-physical values.

Translucent Building Elements

Color Series

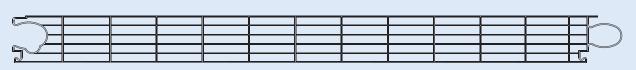


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Color

PC 2540-6

Up-Value 1.1 - 1.2 W/m²K**



General German Building Approval Z-10.1-327

Building width 500 mm*

Colours:

Pacific blue and petrol deliverable without minimum quantity.

For all other colours a minimum quantity of 300 m² is applied.

For quantities < 300 m² please ask for the minimum quantity surcharges.

For colour preferences out of our colour range (30 colours according to colour sample box)

We kindly ask you to inquire if your preferred colour is already available from stock.

If it is necessary we can develop the desired colour.



The costs for a colour development are 500 € for colour stripes.

For approval of the developed colour you will receive three colour stripes in different colour concentration. In case that for the sampling additionally panels in desired colour will be needed we are able to help you in decision taking by producing 2m² of panels for 1,000 € only.

^{**} The Up-values depend on the installation situation, for further details please check our technical manuals and the structural-physical values.



^{*} Please note general information regarding tolerances

Translucent Building Elem

Translucent Building Elements

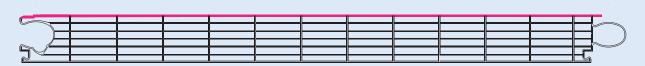
Design Series

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Decocolor

PC 2540-7

Up-Value 1.0 - 1.2 W/m2K**



General German Building Approval Z-10.1-327

Building width 500 mm*

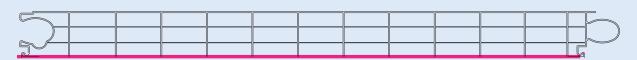
Standard colour combination is Heatbloc S/opal 067

For all other effect- and colour combinations a minimum quantity of 150 m² is necessary.

Bicolor 3D

PC 2540-4

Up-Value 1.3 - 1.5 W/m2K**



General German Building Approval Z-10.1-327

Building width 500 mm*

Standard colour combinations are:

crystal/RAL 5015, crystal/RAL6029, crystal/RAL5002, crystal/RAL 4006, crystal/RAL3020, crystal/RAL1023, crystal/RAL2009, crystal/RAL 6027 and crystal/opal antiblind.

For all other effect- or colour combinations a minimum quantity of 150 m² is necessary.

^{**} The Up-values depend on the installation situation, for further details please check our technical manuals and the structural-physical values.



^{*} Please note general information regarding tolerances

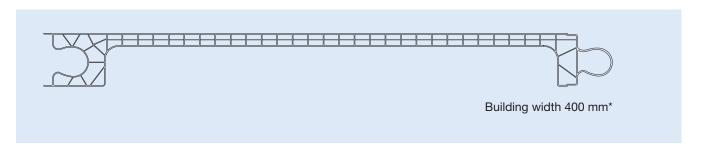
Translucent Building Elements

Greenline

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Standard - crystal and opal antiblind

Up-Value approx. 3.00 W/m²K** PC 2410-3





^{*} Please note general information regarding tolerances

^{**} The Up-values depend on the installation situation, for further details please check our technical manuals and the structural-physical values.



on translucent building elements of Polycarbonate

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The raw material

Polycarbonate (PC) is a crystal clear, high impact thermoplastic.

Advantages

- Temperature resistance between -40 to +115°C, temporarily up to +130 °C
- High impact resistance nearly unchanging within these temperatures
- Good long term performance through UV protection

UV co-extrusion

With this technique a high concentrated UV protection film is homogeneously melted onto the basis material while production process.

This offers the following advantages:

- No adhesion problems of UV protection film
- Same temperature behaviour of base and UV material
- No impairment of high impact (like e.g. with coated or painted surfaces)
- Makes small cold bending radiuses possible.
- Better resistance against environmental influences and ageing.
- The thickness of the Coextrusion layer may influence the colouring.

Outside Performance

Through the coextruded UV-protection film – which is always applied on the outer wall and if desired (surcharge) for some of the products is also available both-sided – our products offer best weather resistance and very good long term performance.

Warranty

Rodeca offers 10 years warranty (according to written warranty) to its uv-coextruded products regarding to **yellowing index – ageing – hail**

Light transmission

Customized on project demand RODECA can produce products with light transmission from almost 0% up to 80% light transmission (depending on material thickness and number of layers).

Due to in-house compounding and raw material refineration special requests and colours can be realized. Please inquire the project demands which vary from our standards.

G-Value (Solar gain value)

The G-values are related to light transmission and U-value. G-values can differ from product specification to product specification from 0.68 down to 0.25!

Up-values and Uf-values (heat transmission coefficient - Up=U-value panel; Uf =U-value frame)

Throughout the multi-walled design of our translucent building elements translucent facades with thermally broken aluminium profiles can be designed according to the requirements on Heat Insulation Ordinance according to EnEV 2009.

UV transmission

UV-radiation is stopped almost to 100% up to 380 Nm because of high UV-stabilization with coextruded UV-protection. The remaining transmission in the area of UV radiation is less than 1%. This property can be very important for UV sensitive goods.

IR-radiation transmission

Our panels with HEATBLOC-surface let through day light and reflect and stop at the same time selectively the heating radiation. The effect is cooler rooms through lower solar gain values.

Reflection of radar radiation

In the near of radar-units (e.g. at airports) it is important to have none or minimized influence through building elements. RODECA products do not have influence on reflection and do not affect radar-units.



on translucent building elements of Polycarbonate

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Service temperature

Service temperature is between minus 40 °C up to plus 115 °C (temporarily up to 130 °C). Please take into consideration service temperature especially with rain screen claddings respectively the use of dark foils for deposition of translucent building elements. Adequate distances and sufficient ventilation need to be considered in planning. That way danger of heat accumulation and associated deformations can be avoided.

Thermal properties

The high deformation resistance from shortly up to 130 °C is one of the advantages which RODECA products with coextruded surface offer. RODECA products can be used in spaces where other thermoplastics cannot be used anymore. Interesting to know is that white surfaces on roof applications already can heat up to +100°C. (It is essential to respect thermal expansion/shrinking of polycarbonate and to avoid heat accumulation.)

Colouring

The usual colours are:

- **CLEAR** with structure for panels for higher light transmission, light refraction. Additionally the surface is less sensitive to scratches.
- OPAL-ANTIBLEND with light refractive and light transmitting pigments for an optimized diffused and antiglare light.
- COLOR Series transparent or semitransparent COLOURS, similar to RAL from approx. 300 m² on request
- BICOLOR Series two coloured finish, inner wall coloured, similar to RAL from approx. 150 m² on request
- DUOCOLOR two coloured finish of translucent building elements custom made in transparent or semitransparent COLOURS similar to RAL from approx. 300 m² on request
- DECOCOLOR two coloured finish, outer wall coloured, similar to RAL from approx. 150 m² on request

Qualities

Depending on application area and demand RODECA produces different qualities.

- LONGLIFE quality for one sided UV protection. The terms can be extracted from our 10 years warranty declaration for LBE, MFP and U-Panels "longlife"
- LONGLIFE PLUS quality for one sided UV protection quality for special requirements.
 The terms can be extracted from our 10 years warranty declaration for LBE, MFP and U-Panels "longlife plus".

Impact resistance/fracture behaviour

RODECA products made of PC are due to the raw material practically indestructible through beat, impact, stone throwing etc. Polycarbonate is 200 times more impact resistant than glass.

Polycarbonate building elements do not splinter and comply with German regulations on workplaces (Arbeitsstättenverordnung).

Hail storm

Currently doesn't exist a DIN standard, so our RODECA elements were tested at EMPA (Swiss testing laboratory) with a simulated hail test with a shot radius of 20 mm and no holes occurred. According to the current testing results we achieve the highest class (class 5) of the Swiss hail test with factory-new goods.

Ball rebound safety

Even an ice hockey puck hurled against the element at 130 km/h could not cause damage. Unlimited ball rebound safety thus applies according to DIN 18032 T 3.

Fire resistance

PC has a very high ignition temperature of approx. 450 °C and in case of fire the smoke development is very little. Depending on panels thickness and material composition RODECA products are according to DIN 4102 B 1 of low inflammability or B2 normally inflammable. Additionally the products are classified according to European fire test DIN EN 13501 and classified according to different national tests. Please inquire the test certificates in case when needed.





on translucent building elements of Polycarbonate

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Meltable area according to DIN 18234

In many cases RODECA panels are used as melt-surface because their softening point is below 300°C.

Sound insulation

Polycarbonate panels have despite their light weight a good sound insulation value up to 27 dB according to DIN EN ISO 140-3 in testing facility. With a double wall construction a value of up to 43 dB is achievable. This value refers to the value that the panel achieves on its own, due to constructive conditions this value may differ.

Chemical resistance

PC elements possess a very high resistance to chemicals but can be affected through some chemical bounds. Chemical resistance of polycarbonate against other used chemicals has to be checked by customer on site. This is especially important for cooling substances lubricants, surfactants, sealants, ammonia, etc. A policy on the compatibility of polycarbonate with chemicals can be found i.a. at http://www.buerkle.de/en/ knowhow/information/chemical-resistance.html .

Painting

In case that the polycarbonate panels for advertising reasons or similar will be painted or screen printed the compatibility of the painting system needs necessarily be tested from customer before use. The aluminium frame profiles can be powder coated according to the project needs. Additionally RODECA offers the possibility to deliver TPE gaskets in custom made colours.

Vinyl wrap

For advertising purposes large scale letters can be glued onto the panels' surface. It is important that the foil and the glue doesn't contain substances which harm and affect polycarbonate.

Please clarify before usage with the vinyl wrap supplier or the advertising company if the ingredients/glues of the foil intended to use are compatible with polycarbonate.

Cleaning/Maintenance

For durable maintenance of technical and visual properties a regular care, maintenance and cleaning of the translucent building elements is mandatory.

The cycle of care, maintenance and cleaning depends on the particular building site and the usage conditions. Cleaning of translucent building elements:

Water with a small percentage of neutral cleaning agents. No use of glass cleaner, rubbing agents or sharp edged subjects. No alkaline or tensile agents to be used.

Storage/Transport

RODECA panels made of polycarbonate have to be protected before sun and wet conditions before installation and must be stored on a plain and even underground. In case of non-observance stock damages may occur. The stacking height of translucent building elements shouldn't exceed 200 cm.

The translucent building elements are delivered – depending on the finish – with one-sided or both-sided protective foil. The delivery is carried out - depending on length - from one to four pieces for hand unloading in a recyclable plastic wrapping or on pallet (for forklift unloading). Please unpack briefly before installation to avoid contamination in the hollow chambers. The protective film must be removed after processing and installation. If the Translucent Building Elements are provided with both-side protective film, the protective film on the interior side is applied as transport protection.

Processing

The Polycarbonate Elements can be smoothly cut with common tools, e.g. pad saw (saw blade with fine indentation) Incidental shavings are to be removed with oil free and water free compressed air. Drill holes (preferably steel-, twist drill or wedge angle drill) need to be at least 40 mm away from elements side and always minimum 50% larger than the screw radius (because of expansion and shrinking due to temperature).



on translucent building elements of Polycarbonate

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Expansion/Shrinking

The expansion coefficient of polycarbonate is 0,065 mm per °C and per m and hence three times as high as the expansion coefficient of aluminium.

Rule of thumb: 3mm per m for 50 °C difference in temperature. Due to temperature differences the length and width of the panel change. The changes in length of the panel need to be considered constructional. RODE-CA has considered the length expansion in its system accessories.

Sealing

Sealings and sealing tapes need to be polycarbonate compatible and approved for usage from respective producer elsewise damages on the panels are possible.

Silicone: Must be absolutely neutral and solvent free, e. g. RODECA PC-Silicone 2001. The aluminium profiles need to be protected (according to state of the art technique) against galvanic corrosion and an adequate sealing of building has to be done.

Condensation

Polycarbonate is a material that is permeable for vapour diffusion so that condensation may occur. This is not a quality defect. Depending from weather/climate this appearance is of temporary nature which is directly linked to temperature and humidity. Condensation doesn't effect the quality of the panels.

Formation of algae

Algae can just occur in connection of dirt and humidity. Taping of the polycarbonate panels prevents appearance of dirt while stocking and transport.

Sealing of panel ends

The ends of the panels must be closed before installation - directly after unpacking - with suitable sealing to avoid dust and dirt in the chambers.

With a sealing that is permeable for vapour diffusion (or permeable to water) you run risk that dust, diesel exhaust particulates, gases or other fine particles can diffuse into the panel chambers. For projects with increased particulate matter emission respectively environmental pollution are additionally precautions to be taken. With a joint sealing and additional sealing methods the optical properties of the translucent building materials can be maintained. Every element needs to be sealed singularily. A general recommendation for sealing of panel ends can't be given due to the different installation situations. The complete lack of panel ends sealing cannot be recommended from our experience.

Safety

The regional building regulations as well as the general safety regulations for non supporting wall and roof coverings are effective. For a perpetration (according to workplace ordinance (German "Arbeitsstättenrichtlinie") it is mandatory to use a board of 50 cm width.

Tolerances

Panels

Length + 12 mm (up to 3 m) / +0,40% of panel length (above panel length of 3 m)

Thickness ± 0,5 mm

Width -2 mm / +6 mm

Weight - 5 %

Concavity length ± 0.5 mm per linear meter of panel length

Concavity width \pm 0,5 mm per linear meter of panel width

Rectangularity < 5 mm per linear meter of panel length

All tolerances are based on room temperature of approx. 20 °C

Variations in colour saturation and shade between several production batches cannot be precluded (production-related). Variations are always possible and will not be accepted as reason for complaint.



on translucent building elements of Polycarbonate

Stand: 02/16 -

Disposal of waste/Environmental protection

RODECA takes leftovers from off-cuts etc. back. Packaging is fully recyclable.

Joint permeability

Especially for large facades it is important not only to achieve a good U-value but also a product which is tested on joint permeability and complies with the required DIN values. RODECA panels fulfil this demand and passed project wise blower door tests for the whole construction.

System accessories

For almost all installation situations RODECA supplies appropriate and well engineered accessories as well as ventilation flaps and windows in many different versions.

Certification/Quality standard

RODECA products are tested according to different criteria and are both external controlled (inspection mark) and internally controlled through laboratory and quality controls. Please note that translucent building elements are presumed to be unregulated building materials and are subject to the regulation of the rules of Building Elements A part 2. The outcome of the requirement to the usability proof in combination with local regulation needs to be considered by designer/installer. Harmonized standards which lead to a CE marking obligation currently do not (yet) exist.

If RODECA forwards building certification for translucent building elements these regulations must be complied with. Due to the not finalized harmonization of National and European norms please check whether the certifications are suitable for the particular application purpose.

Miscellaneous

Data subject to technical change.

The aforesaid information and our application technological advice in words, written and through tries, are carried out to best of one's knowledge. This information is non-binding advice even in regards to property rights of third parties. Our advice does not release you from your responsibility to proof self dependently our current advices - especially our safety data sheets and technical information - and to test if our products in regards to applicability for the intended system and use. Application, use and handling of our products – produced from you based on our application technological advice - take place out of our control and therefore you are solely responsible. The sale of our products is carried out according to our current general terms and conditions. Please check before handling if our products are applicable for the intended purpose.

Translucent Building Elements

Translucent Building Elements

Product properties - Physical properties

Stand: 02/16 ——

PC 2540-10

Up-Value from 0.99 W/m²K to 1.00 W/m²K

Depending on horizontal or vertical installation situation as interior or exterior application according to DIN EN ISO 6946:2008 / DIN EN ISO 10077-2:2008

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Flammability classifications:

PC 2540-10 PC 3540-10

Building width: Thickness: Weight: Number of layers:

Modulus of elasticity:

Coefficient of linear expansion:

UV admission:

Production tolerances:

fire class B 2 according to DIN 4102 fire class B,s2-d0 according to EN 13501

500 mm -2/+6 mm 40 mm +/- 0.5 mm approx. 4.20 kg/m² 10 layers / 9 chambers 2,400 N/mm²

0.065 mm/m/°C

< 1 %, wavelength until 380 nm stopped almost a 100 %

s. General information

Versions:

Standard:



Colours: crystal and opal antiblind

Up-values:

Isotherm- and temperature pattern from -10 °C outside and 20 °C inside at vertical assembly



Isotherm:

Red: 13 °C Blue: 10 °C Black: 0 °C

Installation situation exterior:

Up-value 0.99 W/m²K vertical Up-value 1.00 W/m²K horizontal

The German building approval foresees the calculation of facade and roof areas according to the requirements of DIN 10077-2 (U_{cw}). If additional or divergent national requirements be asked to calculate the thermal protection, these must be respected.

Sound insulation:

rodecd Translucent Building Elements

Translucent Building Elements

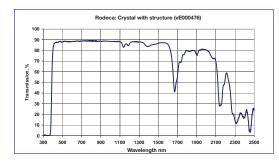
Physical properties

Stand: 02/16 -

Transmission:

Standard:

Colour: crystal approx. 46% Colour: opal antiblind approx. 33%



The Measurement of the transmission values was carried out with application of a natural day light lamp of 20,000 Lux in connection with a lux meter Lightmeter MS 1000-300 – measuring range 200 to 50,000 LUX) exemplarily on a 1 mm thick PC.

Translucent Building Elements

Product properties - Physical properties



Stand: 02/16 —

PC 2540-7

Up-Value from 1.00 W/m²K to 1.20 W/m²K

Depending on horizontal or vertical installation situation as interior or exterior application according to DIN EN ISO 6946:2008 / DIN EN ISO 10077-2:2008

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Flammability classifications:

PC 2540-7 PC 3540-7

Building width: Thickness: Weight:

Number of layers: Modulus of elasticity:

Coefficient of linear expansion:

UV admission:

Production tolerances:

fire class B 2 according to DIN 4102 fire class B-s2, d0 according to DIN EN 13501

500 mm -2/+6 mm 40 mm +/- 0.5 mm approx. 4.30 kg/m² 7 layers / 6 chambers 2,400 N/mm² 0.065 mm/m/°C

< 1 %, wavelength until 380 nm stopped almost a 100 %

s. General information

Versions:

Standard:

Decocolor:



Colours: crystal and opal antiblind

Two coloured version of the translucent building elements For example colour combination:

HEATBLOC S/opal 067

The Decocolor version can be delivered with a minimum quantity of 150 m² without seperate surcharges for colour change.

Up-values:

Isotherm- and temperature pattern from -10 °C outside and 20 °C inside at vertical assembly



Isotherm:

Red: 13 °C Blue: 10 °C Black: 0 °C

Installation situation interior:

Up-value 1.00 W/m²K vertical Up-value 1.10 W/m²K horizontal

Installation situation exterior:

Up-value 1.10 W/m²K vertical Up-value 1.20 W/m²K horizontal

The German building approval foresees the calculation of facade and roof areas according to the requirements of DIN 10077-2 (U_{cw}). If additional or divergent national requirements be asked to calculate the thermal protection, these must be respected.

Sound insulation:

approx. 24 dB Rw

Translucent Building Elements

Translucent Building Elements

Physical properties

Stand: 02/16 -

Transmission:

Standard: Colour: crystal approx. 53 %

Colour: opal antiblind approx. 41 %

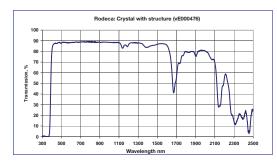
Decocolor:

Depending on colour combinations and

Level of opalization

For example colour combination

Heatbloc S / opal 067 approx. 24 % Heatbloc S / crystal approx. 48 %



The Measurement of the transmission values was carried out with application of a natural day light lamp of 20,000 Lux in connection with a lux meter Lightmeter MS 1000-300 – measuring range 200 to 50,000 LUX) exemplarily on a 1 mm thick PC.

Solar gain values g

Standard: Colour: crystal approx. 56 %

Colour: opal antiblind approx. 47 %

Decocolor: Depending on colour combinations and

level of opalization

For example colour combination

Decocolor Heatbloc S / opal 067 approx. 34 %





Translucent Building Elements

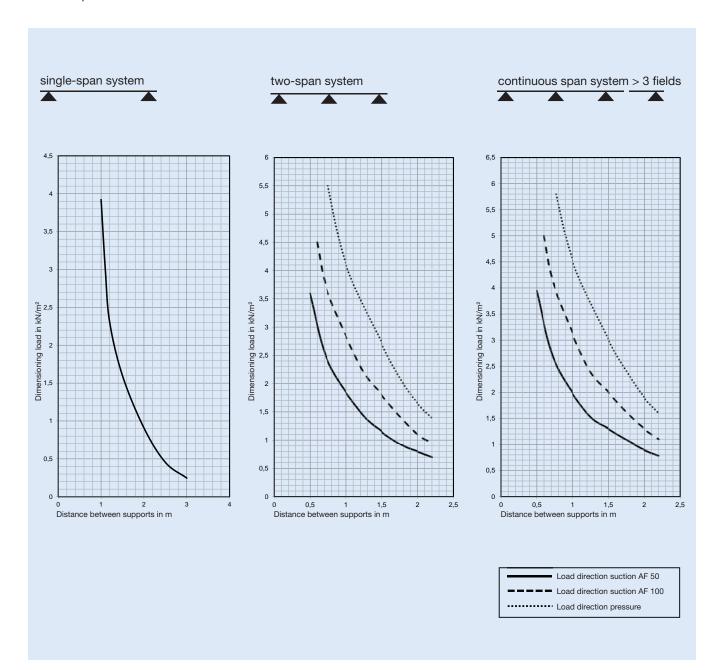
Span width | System 2540-7

Stand: 02/16 -

The below diagrams reflect the valid span width referring to the dimensioning loads for the versions PC 2540-7, PC 1540-7 and PC 3540-7 and only in conjunction with the RODECA system accessories.

Please note that for the structural design of the valid spans additionally to the influencing loads the correspondent national partial safety factors must be added.

Additionally it is mandatory to consider the content of the General German Building Approval Z-10.1-327 respectively the valid component tests.



Translucent Building Elements

Product properties - Physical properties



Stand: 02/16 —

System PC 2540-6

Up-Value from 1.10 W/m²K to 1.20 W/m²K

Depending on horizontal or vertical installation situation in interior or exterior application according to DIN EN ISO 6946:2008 / DIN EN ISO 10077-2:2008

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Flammability classifications:

PC 1540-6 PC 2540-6

PC 3540-6

FC 3340-0

Building width: Thickness:

Weight: Number of layers:

Modulus of elasticity:

Coefficient of linear expansion:

UV admission:

Production tolerances:

fire class B 1 according to DIN 4102 fire class B 2 according to DIN 4102

fire class B-s2, d0 according to DIN EN 13501

500 mm -2/+6 mm 40 mm +/- 0.5 mm approx. 4.20 kg/m² 6 layers / 5 chambers 2,400 N/mm²

0.065 mm/m/°C

< 1 %, wavelength until 380 nm stopped almost a 100 %

s. General information

Versions:

Standard:

Color:



Colours: crystal, opal antiblind, crystal clear (without refracting structure), petrol, pacific blue

Available in any solid colour similar to RAL.

The Color version can be delivered with a minimum quantity of 300 m² without seperate surcharges for colour change.

Up-values:

Isotherm- and temperature pattern from -10 °C outside and 20 °C inside at vertical assembly

Isotherm:

Red: 13 °C Blue: 10 °C Black: 0°C

Sound insulation:

Installation situation interior:

Up-value 1.10 W/m²K vertical Up-value 1.10 W/m²K horizontal

Installation situation exterior:

Up-value 1.20 W/m²K vertical Up-value 1.20 W/m²K horizontal

The German building approval foresees the calculation of facade and roof areas according to the requirements of DIN 10077-2 (U_{cw}). If additional or divergent national requirements be asked to calculate the thermal protection, these must be respected.

Rw 24 dB according to DIN EN ISO 140-3 in testing facility



Translucent Building Elements

Translucent Building Elements

Physical properties

Stand: 02/16 -

approx. 34 %

Transmission:

Standard:	Colour: crystal	approx. 55 %
	Colour: crystal clear	approx. 59 %
	Colour: opal antiblind	approx. 39 %
	Colour: opal 067	approx. 28 %

Colour: pacific blue

The measurement of the transmission values was carried out with application of a natural day light lamp of 20.000 Lux in connection with a lux meter Lightmeter MS 1000-300 – measuring range 200 to 50.000 LUX) exemplarily on a 1 mm thick PC.

Solar gain values g

Standard:	Colour: crystal	approx. 60 %
	Colour: crystal clear	approx. 61 %
	Colour: anal antiblind	approx 47.0/

Colour: opal antiblind approx. 47 %

Color: Depending on colour, for example:

Petrol (≈ RAL 6027) approx. 45 %





Translucent Building Elements

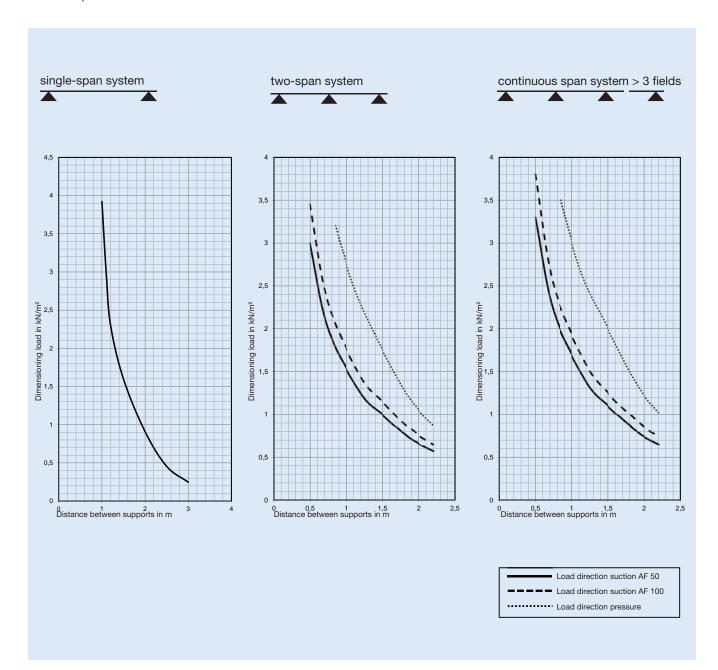
Span width | System 2540-6

Stand: 02/16

The below diagrams reflect the valid span width referring to the dimensioning loads for the versions PC 2540-6, PC 1540-6 and PC 3540-6 and only in conjunction with the RODECA system accessories.

Please note that for the structural design of the valid spans additionally to the influencing loads the correspondent national partial safety factors must be added.

Additionally it is mandatory to consider the content of the General German Building Approval Z-10.1-327 respectively the valid component tests.



Translucent Building Elements

Product properties - Physical properties



Stand: 02/16 -

System PC 2540-4

Up-Value from 1.30 W/m²K to 1.50 W/m²K

Depending on horizontal or vertical installation situation as interior and exterior application according to DIN EN ISO 6946:2008 / DIN EN ISO 10077-2:2008

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Flammability classifications:

PC 1540-4 PC 2540-4

PC 3540-4

Building width: Thickness: Weight:

Number of layers: Modulus of elasticity:

Coefficient of linear expansion:

UV admission:

Production tolerances:

fire class B 1 according to DIN 4102 fire class B 2 according to DIN 4102

fire class B-s2, d0 according to DIN EN 13501

500 mm -2/+6mm 40 mm +/- 0.5mm approx. 4.00 kg/m² 4 layers / 3 chambers 2,400 N/mm² 0,065 mm/m/°C

< 1 %, wavelength until 380 nm stopped almost a 100 %

s. General information

Versions:

Standard:

Bicolor:



Colours: crystal and opal antiblind

Two coloured versions of the translucent building elements.

The Bicolor version can be delivered with a minimum quantity of 150 m² without seperate surcharges for the standard colour combinations -Nonstandard combinations beginning from 300 m².

Standard colours:

crystal/RAL 5015 - pazific blue crystal/RAL 1023 - yellow crystal/RAL 6027 - petrol crystal/RAL 2009 - orange crystal/RAL 6029 - verde crystal/RAL 3020 - red crystal/opal crystal/RAL 4006 - viola

crystal/RAL 5002 - ultramarin blue

Please consider that the specification of RAL colour tones for transparent building materials is only on the basis on the RAL card usable. Please request samples when

Up-values:

Isotherm- and temperature pattern from -10 °C outside and 20 °C inside at vertical assembly



Isotherm:

Red: 13 °C Blue: 10 °C Black: 0 °C

Installation situation interior:

Up-value 1.30 W/m2K vertical Up-value 1.40 W/m2K horizontal

Installation situation exterior:

Up-value 1.40 W/m2K vertical Up-value 1.50 W/m2K horizontal

The German building approval foresees the calculation of facade and roof areas according to the requirements of DIN 10077-2 (Ucw). If additional or divergent national requirements be asked to calculate the thermal protection, these must be respected.

Rw 25 dB according to DIN EN ISO 140-3 in testing facility

Sound insulation: The aforesaid information and our application technological advice in words, written and through tries, are carried out to best of one's knowledge. Technical changes reserved.





Translucent Building Elements

Physical properties

Stand: 02/16 -

Transmission:

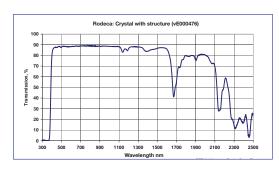
Standard: Colour: crystal approx. 66 % Colour: opal antiblind approx. 48 %

Bicolor: Depending on colour combinations

and level of opalization

For example colour combination

Crystal / opal antiblind approx. 66 % Heatbloc S / petrol approx. 45 % Crystal / pacific blue approx. 51 %



The measurement of the transmission values was carried out with application of a natural day light lamp of 20,000 Lux in connection with a lux meter Lightmeter MS 1000-300 - measuring range 200 to 50,000 LUX) exemplarily on a 1 mm thick PC.

Solar gain values g

Standard: Colour: crystal approx. 68 % Colour: opal antiblind approx. 56 %

Bicolor: Depending on colour combinations

and level of opalization

For example colour combination

Crystal / opal antiblind approx. 69 % Crystal / RAL 5015 (pacific blue) approx. 67 % Crystal / RAL 6029 (verde) approx. 63 %





Translucent Building Elements

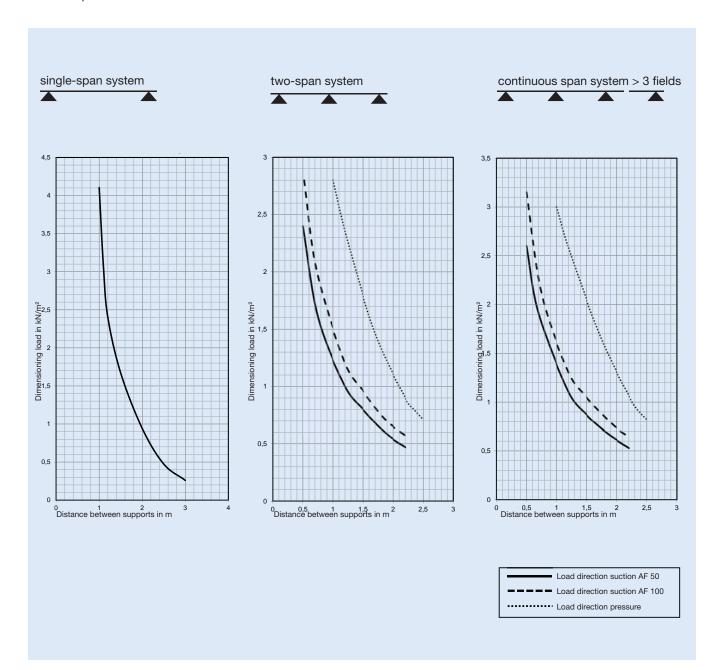
Span width | System 2540-4

Stand: 02/16 -

The below diagrams reflect the valid span width referring to the dimensioning loads for the versions PC 2540-4, PC 1540-4 and PC 3540-4 and only in conjunction with the RODECA system accessories.

Please note that for the structural design of the valid spans additionally to the influencing loads the correspondent national partial safety factors must be added.

Additionally it is mandatory to consider the content of the General German Building Approval Z-10.1-327 respectively the valid component tests.



Translucent Building Elements

Product properties - Physical properties

Stand: 02/16 -

System PC 2540-4 MC

Up-Value from 1.30 W/m²K to 1.60 W/m²K

Depending on horizontal or vertical installation situation as interior and exterior application according to DIN EN ISO 6946:2008 / DIN EN ISO 10077-2:2008

7							

Flammability classifications:

PC 1540-4 MC fire class B 1 according to DIN 4102 fire class B 2 according to DIN 4102 PC 2540-4 MC PC 3540-4 MC

fire class B-s2, d0 according to DIN EN 13501

Building width: 500 mm -2/+6 mm 40 mm +/- 0.5 mm Thickness: Weight: approx. 4.00 kg/m² 4 layers / 3 chambers Number of layers: Modulus of elasticity: 2,400 N/mm²

Coefficient of linear expansion: 0.065 mm/m/°C

UV admission: < 1 %, wavelength until 380 nm stopped almost a 100 %

s. General information

Versions:

Production tolerances:

Standard: Colours: crystal and opal antiblind

Up-values:

Isotherm- and temperature pattern from -10 °C outside and 20 °C inside at vertical assembly

Isotherm:



Red: 13 °C Black: 0 °C

Blue: 10 °C

Sound insulation:

Installation situation interior:

Up-value 1.30 W/m²K vertical Up-value 1.50 W/m2K horizontal

Installation situation exterior:

Up-value 1.50 W/m2K vertical Up-value 1.60 W/m2K horizontal

The German building approval foresees the calculation of facade and roof areas according to the requirements of DIN 10077-2 (Ucw). If additional or divergent national requirements be asked to calculate the thermal protection, these must be respected.

Rw 25 dB according to DIN EN ISO 140-3 in testing facility





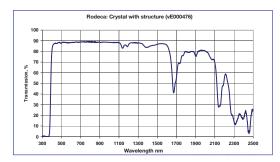
Translucent Building Elements

Physical properties

Stand: 02/16 -

Transmission:

Standard: Colour: crystal approx. 66 % Colour: opal antiblind approx. 48 %



The measurement of the transmission values was carried out with application of a natural day light lamp of 20,000 Lux in connection with a lux meter Lightmeter MS 1000-300 – measuring range 200 to 50,000 LUX) exemplarily on a 1 mm thick PC.

Solar gain values g

Standard: Colour: crystal approx. 68 % Colour: opal antiblind approx. 56 %



Translucent Building Elements

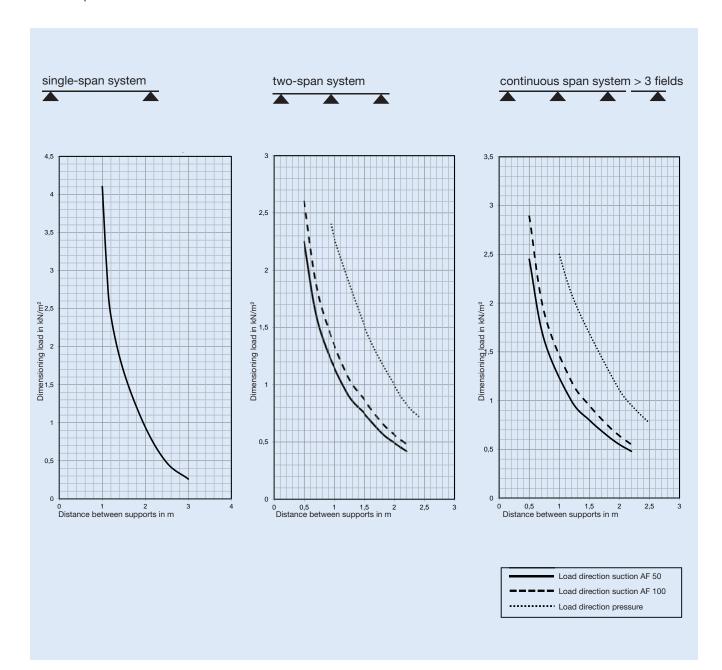
Span width | System 2540-4 MC

Stand: 02/16 -

The below diagrams reflect the valid span width referring to the dimensioning loads for the versions PC 2540-4, PC 1540-4 and PC 3540-4 and only in conjunction with the RODECA system accessories.

Please note that for the structural design of the valid spans additionally to the influencing loads the correspondent national partial safety factors must be added.

Additionally it is mandatory to consider the content of the General German Building Approval Z-10.1-327 respectively the valid component tests.



Translucent Building Elements

Translucent Building Elements

Product properties - Physical properties

Stand: 02/16 ——

System PC 2410-3

Up-Value from 3.00 W/m²K

(Average reference value)



Flammability classifications:

PC 2410-3 fire class B 2 according to DIN 4102

Building width:

400 mm -2/+6 mm

Thickness:

40/10 mm +/- 0.5 mm

Weight:

approx. 2.80 kg/m²

Number of layers:

3 layers / 2 chambers

Modulus of elasticity:

2,400 N/mm²

Coefficient of linear expansion:

UV admission:

0.065 mm/m/°C

< 1 %, wavelength ur

V admission: < 1 %, wavelength until 380 nm stopped almost a 100 %

Production tolerances: s. General information

Versions:

Standard: Colour: crystal

Up-values:

Isotherm- and temperature pattern from -10 °C outside and 20 °C inside at vertical assembly



Sound insulation:

Isotherm:

Red: 13 °C Blue: 10 °C Black: 0 °C

approx. Rw 20 dB

Installation situation exterior:

Up-value approx. 3.00 W/m²K vertical



Translucent Building Elements

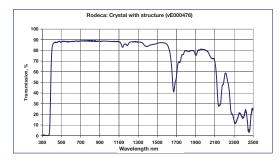
Translucent Building Elements

Physical properties

Stand: 02/16 -

Transmission:

Standard: Colour: crystal approx. 76 %
Colour: opal antiblind approx. 52 %



The measurement of the transmission values was carried out with application of a natural day light lamp of 20,000 Lux in connection with a lux meter Lightmeter MS 1000-300 – measuring range 200 to 50,000 LUX) exemplarily on a 1 mm thick PC.



Translucent Building Elements

Product version Decocolor 2540-7

Stand: 02/16 ——

Design Series - Decocolor

Decocolor means:

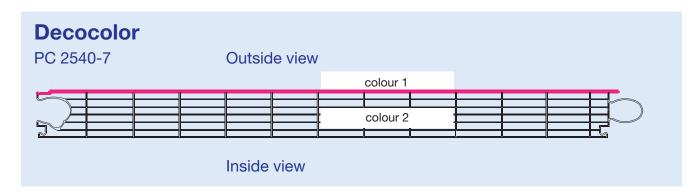
Layer 1 from outside view in colour 1 Layers 2-7 from outside view in colour 2

Internal production codification BI-A

For the indication of colours always the outside view is taken as basis!

Decocolor RAL5002/crystal means:

Layer 1 in colour RAL 5002 Layers 2-7 in colour crystal



Please use this data sheet as well as basis for your project orders:

Ordering Information:

Layer 1 from outside view in colour 1 _____

Layers 2-7 from outside view in colour 2

For the indication of colours always the outside view is taken as basis!

Decocolor colour 1 _____/colour 2 _____





Translucent Building Elements

Product version Bicolor 2540-4

Stand: 02/16 ——

Design Series - Bicolor

Bicolor means:

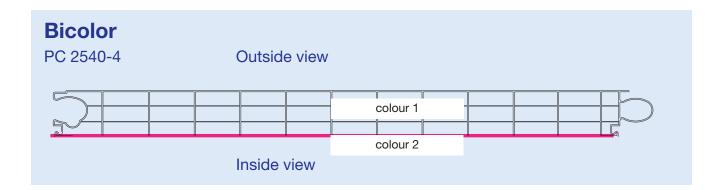
Layers 1-3 from outside view in colour 1 Layer 4 from outside view in colour 2

Internal production codification BI-I

For the indication of colours always the outside view is taken as basis!

Bicolor crystal/RAL5002 means:

Layers 1-3 from outside view in crystal Layer 4 from outside view in RAL 5002



Please use this data sheet as well as basis for your project orders:

Ordering information:

Layers 1-3 from outside view in colour 1

Layer 4 from outside view in colour 2

For the indication of colours always the outside view is taken as basis.

Bicolor colour 1 _____/colour 2 ____

40



1.2.2.1



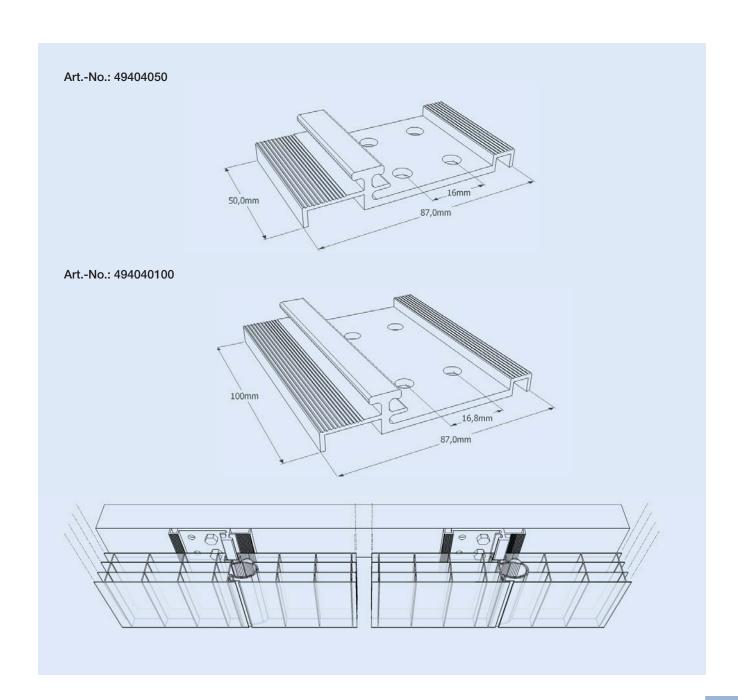
Translucent Building Elements

System PC 2540 AF 50 | System PC 2540 AF 100 Fastener

Stand: 02/16 -

General

The RODECA flat fasteners are made of extruded aluminium profiles, afterwards cut, pierced and trovalised. The proof of applicability and the statical values are in the General German Building Approval Z-10.1-327 documented. We recommend to fix the flat aluminium fasteners with stainless steel screws without sealing discs. The fixing materials need to be chosen in type and finish adequately to substructure. The height of substructure should be not smaller than the height of the fastener.



1.2.2.2

Translucent Building Elements

Translucent Building Elements

System PC 2410-3 | Fastener

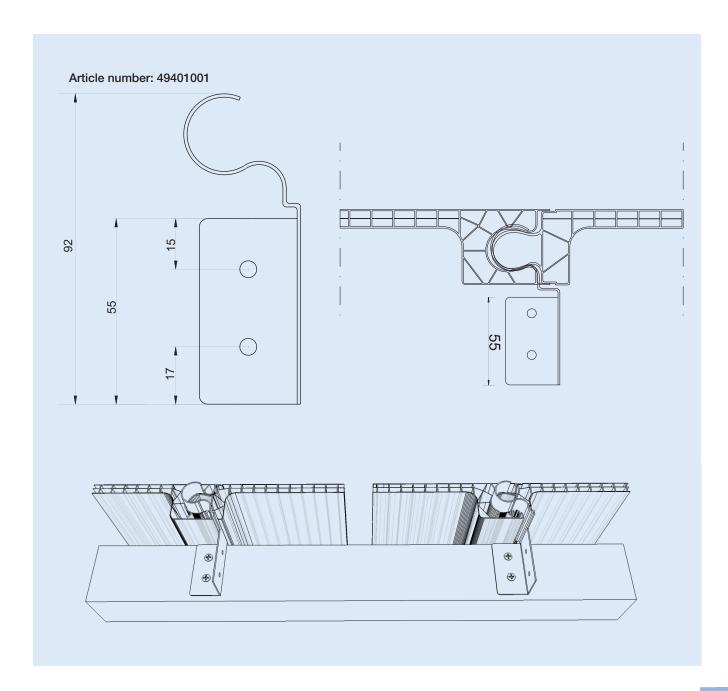
Stand: 02/16 ——

General

The frame fastener 49401001 fastens the PC panels 2410-3 onto supporting substructure.

Article number

49401001 = Fastener for 2410-3





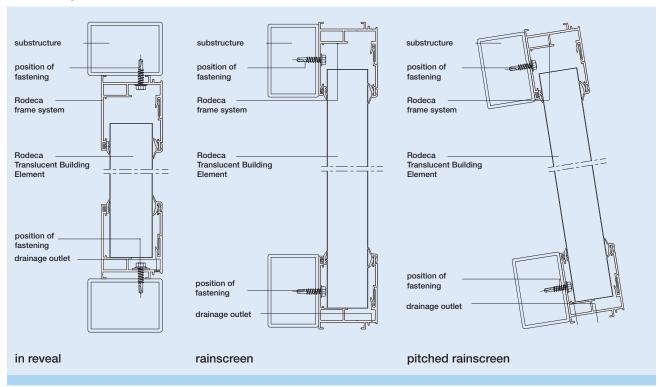
Translucent Building Elements

Frame system thermally and non-thermally broken General Information

Translucent Building Elements

Stand: 02/16 -

Mounting situation



General

The examples shown above illustrate the use of Rodeca frame profiles for mounting in reveal, as rainscreen or as a pitched rainscreen construction.

In all cases the sealing between frame sections, frame profile and substructure should be adapted to local conditions. The proof of aluminium profiles, their fixings and the fixing of Rodeca fasteners must be kept in an individual case. Installation of the aluminium profiles with **stainless steel** screws and sealing disc. Dimensions and size according to substructure and extract values of fixing materials. Rodeca assembly instructions must be observed.

Rodeca frame systems are made of extruded Aluminium profiles consisting of aluminium EN AW-6060, status T 66 according to DIN EN 755-2. The ribs are made of fiber glass reinforced polyamide PA 66 with fiber glass part of 25%. The gaskets are made of TPE.

Please note:

The coefficient of linear expansion for Aluminium profiles = $0.023 \text{ mm/m}^{\circ}\text{C}$. Polycarbonate panels = $0.065 \text{ mm/m}^{\circ}\text{C}$.

Initial lengths/-units

Aluminium profiles 6,00 m Front plate 2,0 und 3,0 m **Versions**

TPE gaskets, grey or black 50 m rolls Aluminium - mill finish or special colour on request Aluminium - anodized E6/EV1

Profile connector 10 cm PU 4pcs. Aluminium - powder coated according to RAL

Installation manuals can be downloaded on our website www.rodeca.de.

If there are any further questions on the proper implementation of your Rodeca project, please contact us.



1.2.4.1

Translucent Building Elements

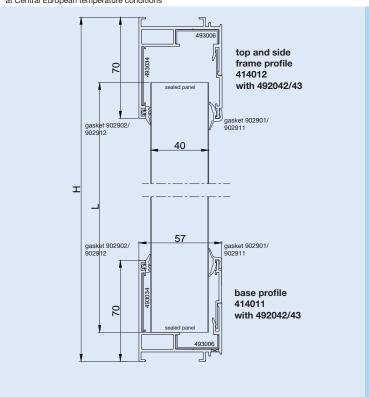
Series 41 40 | Frame system non-thermally broken



Stand: 02/16 -

Facade 90° up to 6m panel length*

* at Central European temperature conditions



Top profile 414012 **Base profile** 414011

Article numbers

414012 = Top and side frame profile 493034 = Profile connector for 414012 493006 = Profile connector for 414012

414011 = Base profile

493034 = Profile connector for 414011 493006 = Profile connector for 414011

492042 = Front plate in L = 2.0 m 492043 = Front plate in L = 3.0 m

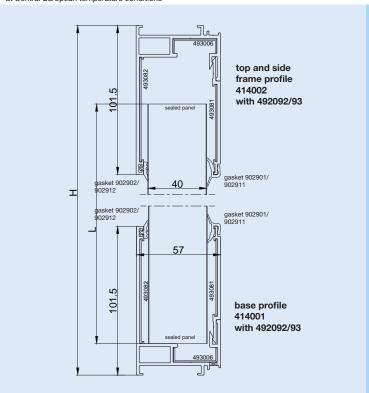
902901 = Outer plug gasket TPE grey **902911** = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm less 65 mm at H > 1500 mm less 70 mm at H < = 1500 mm

Facade 90° up to 12m panel length*

at Central European temperature conditions



Top profile 414002 **Base profile** 414001

Article numbers

414002 = Top and side frame profile 493082 = Profile connector for 414002

493006 = Profile connector for 414002

414001 = Base profile

493082 = Profile connector for 414001

493006 = Profile connector for 414001

492092 = Front plate in L = 2.0 m

492093 = Front plate in L = 3.0 m

493081 = Profile connector for 492092/93

902901 = Outer plug gasket TPE grey

902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 75 mm



1.2.4.2

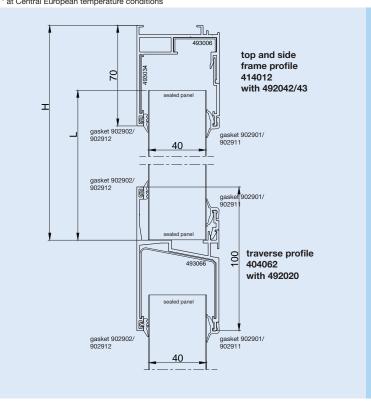
Translucent Building Elements

Series 41 40 | Frame system non-thermally broken



Stand: 02/16 -

Facade 90° up to 6m panel length*



Top profile 414012 **Traverse profile** 404062

Article numbers

414012 = Top and side frame profile 493034 = Profile connector for 414012 493006 = Profile connector for 414012

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

404062 = Traverse profile

493066 = Profile connector for 404062

492020 = Front plate in L = 2.0 m

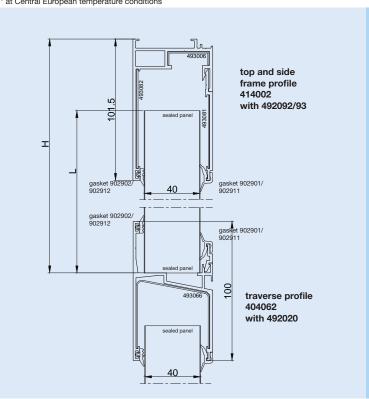
902901 = Outer plug gasket TPE grey **902911** = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 45 mm

Facade 90° up to 12m panel length*

at Central European temperature conditions



Top profile 414002 **Traverse profile** 404062

Article numbers

414002 = Top and side frame profile 493082 = Profile connector for 414002

493006 = Profile connector for 414002

492092 = Front plate in L = 2.0 m **492093** = Front plate in L = 3.0 m

493081 = Profile connector for 492092/93

404062 = Traverse profile

493066 = Profile connector for 404062

492020 = Front plate in L = 2.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 55 mm

1.2.4.3

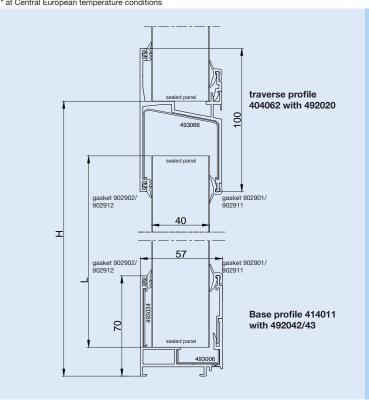
Translucent Building Elements

Series 41 40 | Frame system non-thermally broken



Stand: 02/16 -

Facade 90° up to 6m panel length*



Traverse profile 404062 **Base profile** 414011

Article numbers

404062 = Traverse profile

493066 = Profile connector for 404062

492020 = Front plate in L = 2.0 m

414011 = Base profile

493034 = Profile connector for 414011

493006 = Profile connector for 414011

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

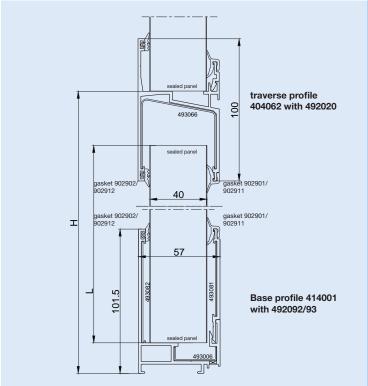
902901 = Outer plug gasket TPE grey

902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey

902912 = Inner lip gasket TPE black

Facade 90° up to 6m panel length*



Calculation of panel length: L in mm = Height H in mm - 60 mm

Traverse profile 404062 **Base profile** 414001

Article numbers

404062 = Traverse profile

493066 = Profile connector for 404062

492020 = Front plate in L = 2.0 m

414001 = Base profile

493082 = Profile connector for 414002

493006 = Profile connector for 414002

492092 = Front plate in L = 2.0 m

492093 = Front plate in L = 3.0 m

493081 = Profile connector for 492092/93

902901 = Outer plug gasket TPE grey

902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey

902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 60 mm



1.2.4.4

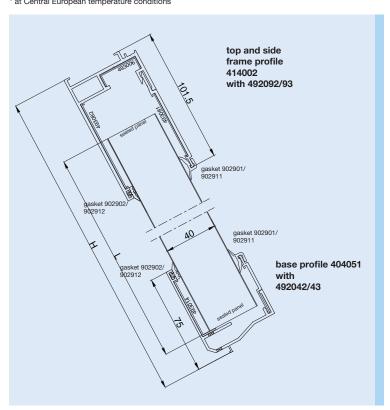
Translucent Building Elements

Series 41 40 | Frame system non-thermally broken

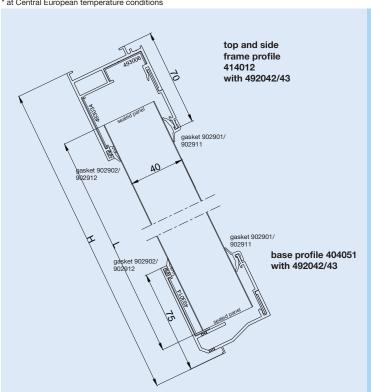


Stand: 02/16 -

Pitched installation >15° up to 12m panel length*



Pitched installation >15° up to 6m panel length*



Top profile 414002 **Base profile** 404051

Article numbers

414002 = Top and side frame profile 493082 = Profile connector for 414002 493006 = Profile connector for 414002

492092 = Front plate in L = 2.0 m **492093** = Front plate in L = 3.0 m 493081 = Profile connector for 492092/93

404051 = Base profile 493014 = Profile connector for 404051

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 75 mm

Top profile **Base profile**

414012 404051

Article numbers

414012 = Top and side frame profile 493034 = Profile connector for 414012 493006 = Profile connector for 414012

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

404051 = Base profile

493014 = Profile connector for 404051

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 65 mm

1.2.4.6

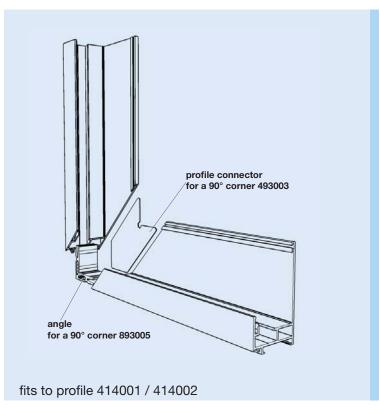
Translucent Building Elements

Series **41** 40 | Frame system non-thermally broken corner connection

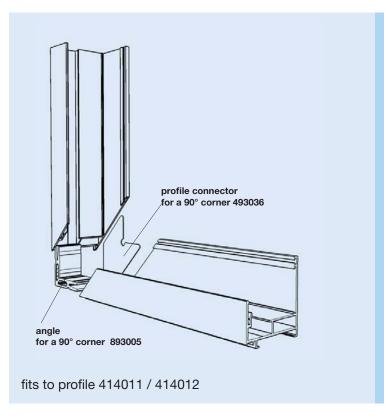


Stand: 02/16 -

90° corner connection 414005



90° corner connection 414015



General

90° corner connections of series 41 are available as prefabricated components.

The corner connections are made of 0.55m long frame profiles, incl. front plates. The connections are sealed with profile connectors and sealant and thus save installation time and effort.

Initial lengths/-units

Prefabricated corner profile incl. front plates and profile connectors

Length 0.55 m 1 pc. PU

Profile connector 493003 4 pcs. PU

Angle for 90° corner 893005 4 pcs. PU

TPE gaskets, grey or black 50 m rolls or special colour on request

Article numbers

414005 = 90° corner connection prefabricated incl. profile connectors and front plate, fits to profile 414001 & 414002

493003 = profile connector for a 90° corner of profile 414001/02

893005 = angle for a 90° corner of profile 414001/02

414015 = 90° corner connection prefabricated incl. profile connectors and front plate, fits to profile 414011 & 414012

493036 = profile connector for a 90° corner of profile 414011/12

 $893005 = angle for a 90^{\circ} corner of profile 414001/02$

Versions

Aluminium - mill finish Aluminium - anodized E6/EV1

Aluminium - powder coated according to RAL

1.2.4.7

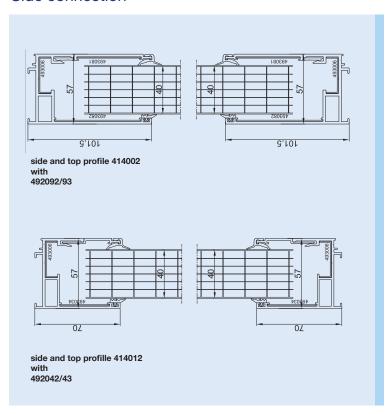
Translucent Building Elements

Series 41 40 | Frame system non-thermally broken



Stand: 02/16 -

Side connection



Side connection with frame profile series 41

Article numbers

414002 = Top and side frame profile
493082 = Profile connector for 414002
493006 = Profile connector for 414002

492092 = Front plate in L = 2.0 m
492093 = Front plate in L = 3.0 m
493081 = Profile connector for 492092/93

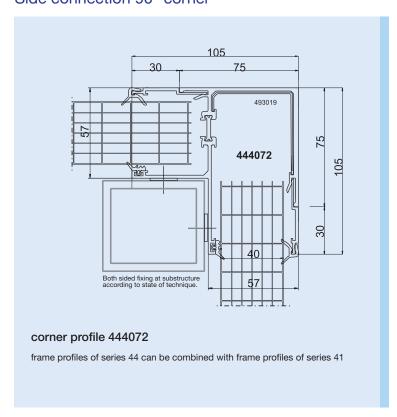
414012 = Top and side frame profile
493034 = Profile connector for 414012
493006 = Profile connector for 414012

492042 = Front plate in L = 2.0 m
492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey
902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Side connection 90° corner



Side connection 90° corner with profile 444072

Article numbers

444072 = Corner profile 493019 = Profile connector for 444072 492042 = Front plate in L = 2.0 m 492043 = Front plate in L = 3.0 m 902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black 902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

40



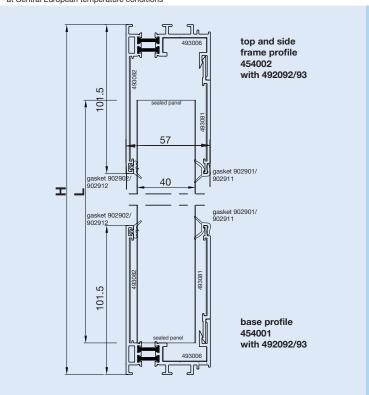
Translucent Building Elements

Series 45 40 | Frame system thermally broken

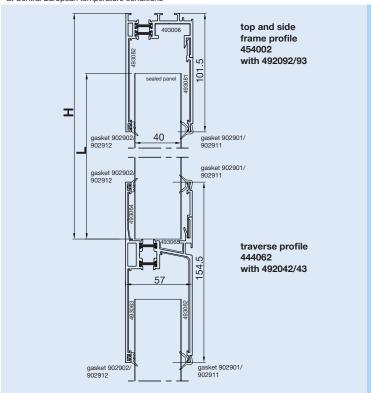


Stand: 02/16 -

Facade 90° up to 12m panel length* *at Central European temperature conditions



Facade 90° up to 12m panel length*
* at Central European temperature conditions



Top profile 454002 Base profile 454001

Article numbers

454002 = Top and side frame profile 493082 = Profile connector for 454002 493006 = Profile connector for 454002

454001 = Base profile

493082 = Profile connector for 454001 493006 = Profile connector for 454001

492092 = Front plate in L = 2.0 m 492093 = Front plate in L = 3.0 m 493081 = Profile connector for 492092/93

902901 = Outer plug gasket TPE grey **902911** = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 75 mm

Top profile **Traverse profile**

Article numbers

454002 = Top and side frame profile 493082 = Profile connector for 454002 493006 = Profile connector for 454002 **492092** = Front plate in L = 2.0 m 492093 = Front plate in L = 3.0 m

454002

444062

493081 = Profile connector for 492092/93

444062 = Traverse profile

493062 = Profile connector for 444062 493063 = Profile connector for 444062 493064 = Profile connector for 444062 493065 = Profile connector for 444062 492042 = Front plate in L = 2.0 m

492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 55 mm



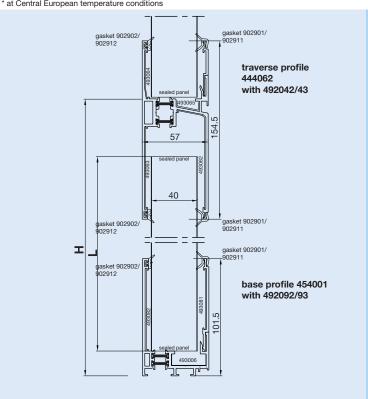
Translucent Building Elements

Series 45 40 | Frame system thermally broken

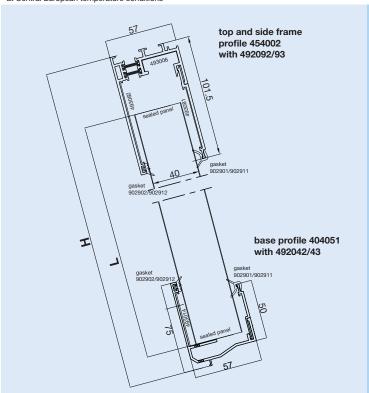


Stand: 02/16 -

Facade 90° up to 12m panel length*



Pitched installation >15° up to 12m panel length*



Traverse profile 444062 **Base profile** 454001

Article numbers

444062 = Traverse profile 493062 = Profile connector for 444062 493063 = Profile connector for 444062

493064 = Profile connector for 444062 493065 = Profile connector for 444062 492042 = Front plate in L = 2.0 m

492043 = Front plate in L = 3.0 m

454001 = Base profile

493082 = Profile connector for 454001 493006 = Profile connector for 454001

492092 = Front plate in L = 2.0 m 492093 = Front plate in L = 3.0 m

493081 = Profile connector for 492092/93

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 80 mm

Top profile **Base profile**

454002 404051

Article numbers

454002 = Top and side frame profile

493082 = Profile connector for 454002

493006 = Profile connector for 454002

492092 = Front plate in L = 2.0 m

492093 = Front plate in L = 3.0 m

493081 = Profile connector for 492092/93

404051 = Base profile

493014 = Profile connector for 404051

492042 = Front plate in L = 2.0 m

492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 75 mm

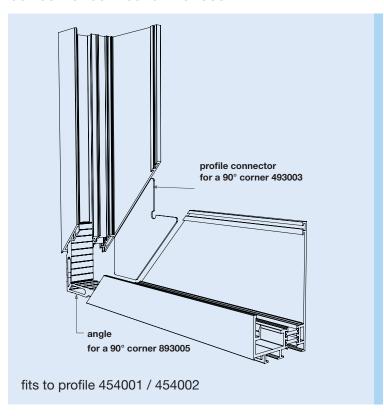
Translucent Building Elements

Series **45** 40 | Frame system thermally broken corner connection



Stand: 02/16 -

90° corner connection 454005



General

90° corner connections of series 41 are available as prefabricated components.

The corner connections are made of 0.55m long frame profiles, incl. front plates. The connections are sealed with profile connectors and sealant and thus save installation time and effort.

Initial lengths/-units

Prefabricated corner profile incl. front plates and profile connectors

Length 0.55 m 1 pc. PU
Profile connector 493003 4 pcs. PU
Angle for 90° corner 893005 4 pcs. PU
TPE gaskets, grey or black
or special colour on request 50 m rolls

Article numbers

454005 = 90° corner connection prefabricated incl. profile connectors and front plate, fits to profile 454001 & 454002

493003 = profile connector for a 90° corner of profile 454001/02

 $893005 = angle for a 90^{\circ} corner of profile 454001/02$

Versions

Aluminium - mill finish

Aluminium - anodized E6/EV1

Aluminium - powder coated according to RAL

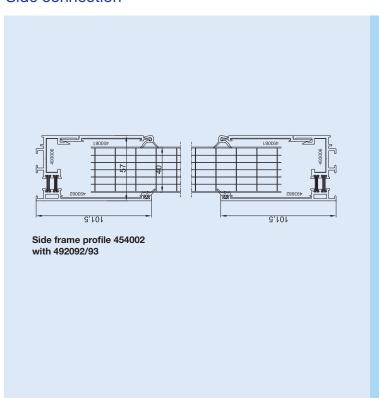
Translucent Building Elements

Series 41 40 | Frame system thermally broken



Stand: 02/16 -

Side connection



Side connection with frame profile series 45

Article numbers

454002 = Top and side frame profile 493082 = Profile connector for 414002 493006 = Profile connector for 414002

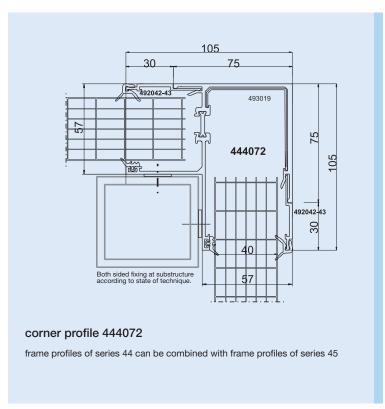
492092 = Front plate in L = 2.0 m **492093** = Front plate in L = 3.0 m

493081 = Profile connector for 492092/93

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Side connection 90° corner



Side connection 90° corner with profile 444072

Article numbers

444072 = Corner profile

493019 = Profile connector for 444072

492042 = Front plate in L = 2.0 m**492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

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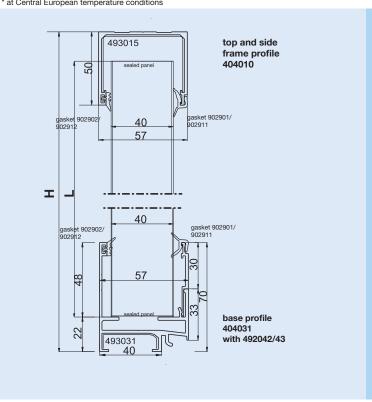
Translucent Building Elements

Series 40 40 | Frame system non-thermally broken



Stand: 02/16 -

Facade 90° up to 6m panel length*



Top profile 404010 Base profile 404031

Article numbers

404010 = Top and side frame profile 493015 = Profile connector for 404010

404031 = Base profile

493031 = Profile connector for 404031

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

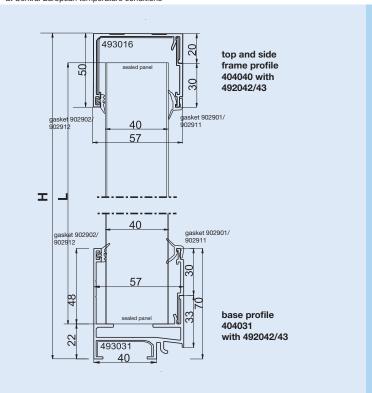
902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm less 50 mm at H > 1,500 mm less 55 mm at H < = 1,500 mm

Facade 90° up to 6m panel length*

at Central European temperature condition



Top profile Base profile

Article numbers

404040 = Top and side frame profile 493016 = Profile connector for 404040

404040

404031

492042 = Front plate in L = 2.0 m

492043 = Front plate in L = 3.0 m

404031 = Base profile

493031 = Profile connector for 404031

492042 = Front plate in L = 2.0 m

492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm less 50 mm at H > = 1,500 mmless 55 mm at H < = 1,500 mm

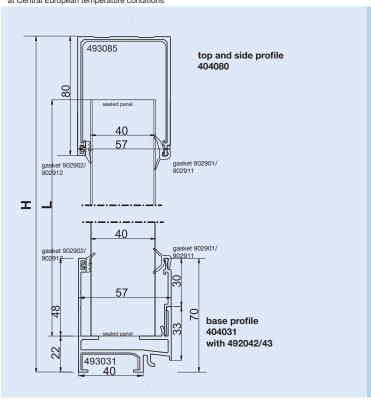
Translucent Building Elements

Series 40 40 | Frame system non-thermally broken



Stand: 02/16 -

Facade 90° up to 12m panel length* *at Central European temperature conditions



Top profile 404080 Base profile 404031

Article numbers

404080 = Top and side frame profile 493085 = Profile connector for 404080

404031 = Base profile

493031 = Profile connector for 404031

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

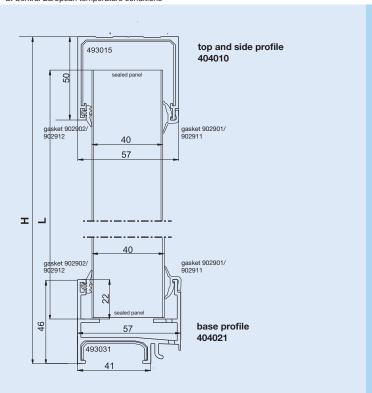
902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 60 mm

Facade 90° up to 6m panel length*

at Central European temperature condition



Top profile 404010 **Base profile** 404021

Article numbers

404010 = Top and side profile

493015 = Profile connector for 404010

404021 = Base profile

493031 = Profile connector for 404021

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm less 55 mm bei H > = 1,500 mm less 60 mm bei H < = 1,500 mm



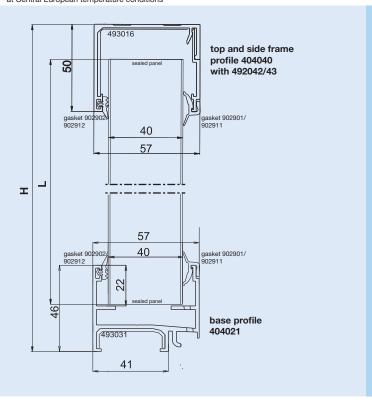
Translucent Building Elements

Series 40 40 | Frame system non-thermally broken



Stand: 02/16 -

Facade 90° up to 6m panel length*



Top profile 404040 Base profile 404021

Article numbers

404040 = Top and side frame profile 493016 = Profile connector for 404040

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

404021 = Base profile

493031 = Profile connector for 404021

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

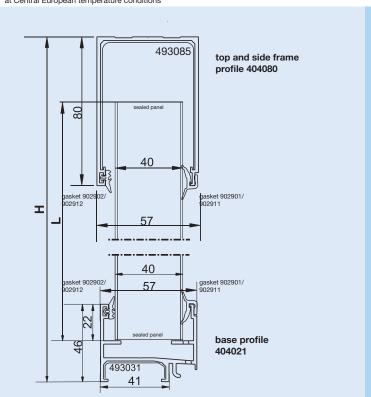
902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

L in mm = Height H in mm - 50 mm

Calculation of panel length:

Facade 90° up to 12m panel length*

at Central European temperature conditions



Top profile 404080 **Base profile** 404021

Article numbers

404080 = Top and side frame profile 493085 = Profile connector for 404080

404021 = Base profile

493031 = Profile connector for 404021

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm less 75 mm at H > = 1,500 mmless 85 mm at H < = 1,500 mm



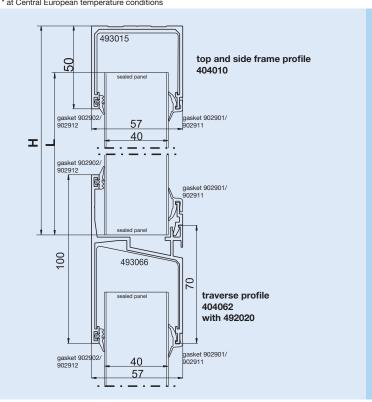
Translucent Building Elements

Series 40 40 | Frame system non-thermally broken



Stand: 02/16 -

Facade 90° up to 6m panel length*



Top profile 404010 **Traverse profile** 404062

Article numbers

404010 = Top and side frame profile 493015 = Profile connector for 404010

404062 = Traverse profile

493066 = Profile connector for 404062

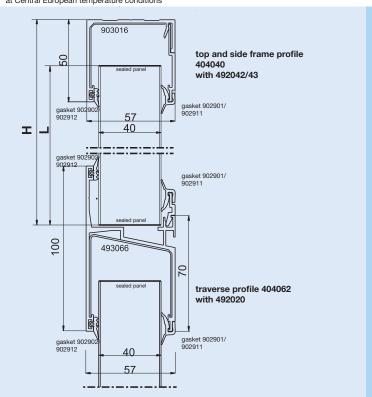
492020 = Front plate in L = 2.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm less 25 mm at H > = 1,500 mmless 30 mm at H < = 1,500 mm

Facade 90° up to 6m panel length*



Top profile 404040 **Traverse profile** 404062

Article numbers

404040 = Top and side frame profile

493016 = Profile connector for 404040

492042 = Front plate in L = 2.0 m

492043 = Front plate in L = 3.0 m

404062 = Traverse profile

493066 = Profile connector for 404062

492020 = Front plate in L = 2.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm less 25 mm at H > = 1,500 mmless 30 mm at H < = 1,500 mm



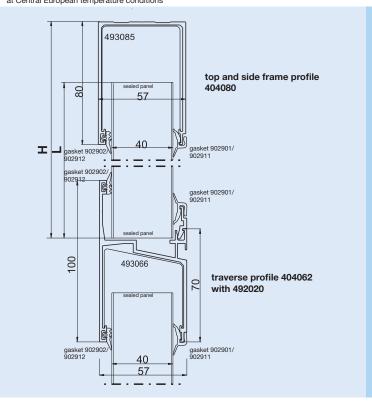
Translucent Building Elements

Series 40 40 | Frame system non-thermally broken



Stand: 02/16 -

Facade 90° up to 12m panel length* *at Central European temperature conditions



Top profile 404080 **Traverse profile** 404062

Article numbers

404080 = Top and side frame profile 493085 = Profile connector for 404080

404062 = Traverse profile

493066 = Profile connector for 404062

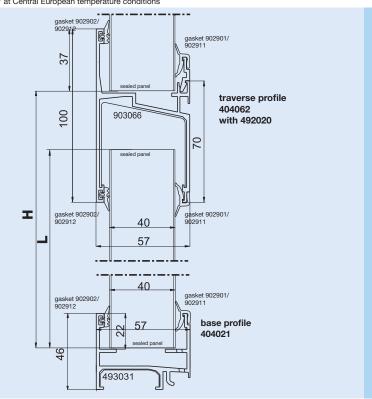
492020 = Front plate in L = 2.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 45 mm

Facade 90° up to 6m panel length* *at Central European temperature conditions



Traverse profile 404062 **Base profile** 404021

Article numbers

404062 = Traverse profile

493066 = Profile connector for 404062

492020 = Front plate in L = 2.0 m

404021 = Base profile

493031 = Profile connector for 404021

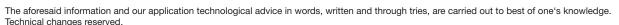
902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey

902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm less 60 mm at H > = 1,500 mmless 70 mm at H < = 1,500 mm





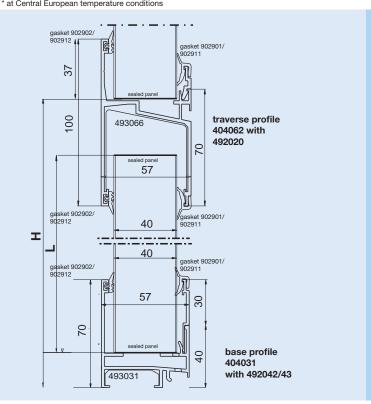
Translucent Building Elements

Series 40 40 | Frame system non-thermally broken

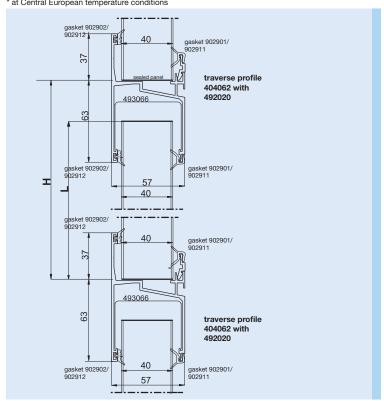


Stand: 02/16 -

Facade 90° up to 6m panel length*



Facade 90° up to 6m panel length* *at Central European temperature conditions



Traverse profile 404062 Base profile 404031

Article numbers

404062 = Traverse profile

493066 = Profile connector for 404062

492020 = Front plate in L = 2.0 m

404031 = Base profile

493031 = Profile connector for 404031

492042 = Front plate in L = 2.0 m 492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey **902911** = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey

902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm less 60 mm at H > = 1,500 mmless 70 mm at H < = 1,500 mm

Traverse profile 404062 **Traverse profile** 404062

Article numbers

404062 = Traverse profile

493066 = Profile connector for 404062

492020 = Front plate in L = 2.0 m

902901 = Outer plug gasket TPE grey

902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey

902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 30 mm



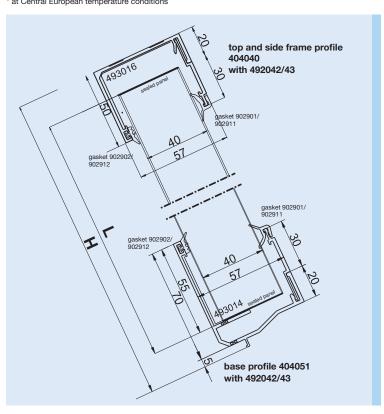
Translucent Building Elements

Series 40 40 | Frame system non-thermally broken

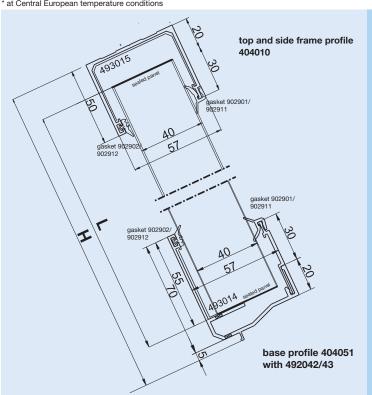


Stand: 02/16 -

Pitched installation >15° up to 6m panel length*



Pitched installation >15° up to 6m panel length*



Top profile 404040 Base profile 404051

Article numbers

404040 = Top and side frame profile 493016 = Profile connector for 404040

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

404051 = Base profile

493014 = Profile connector for 404051

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey **902911** = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 45 mm

Top profile 404010 **Base profile** 404051

Article numbers

404010 = Top and side frame profile 493015 = Profile connector for 404010

404051 = Base profile

493014 = Profile connector for 404051

492042 = Front plate in L = 2.0 m 492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 45 mm

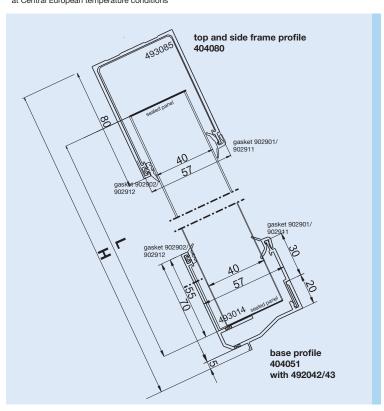
Translucent Building Elements

Series 40 40 | Frame system non-thermally broken



Stand: 02/16 -

Pitched installation >15° up to 12m panel length*



Top profile 404080 Base profile 404051

Article numbers

404080 = Top and side frame profile 493085 = Profile connector for 404080

404051 = Base profile

493014 = Profile connector for 404051

492042 = Front plate in L = 2.0 m**492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:
L in mm = Height H in mm - 75 mm

40

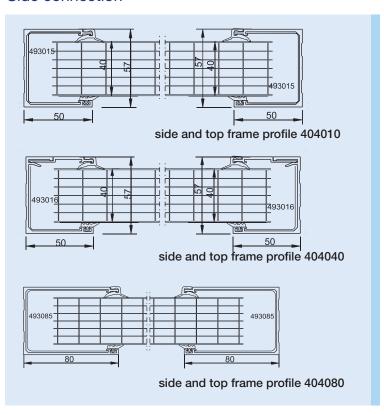
Translucent Building Elements

Series 40 40 | Frame system non-thermally broken



Stand: 02/16 -

Side connection



Side connection with frame profile series 40

Article numbers

404010 = Top and side frame profile 493015 = Profile connector for 404010

404040 = Top and side frame profile 493016 = Profile connector for 404040

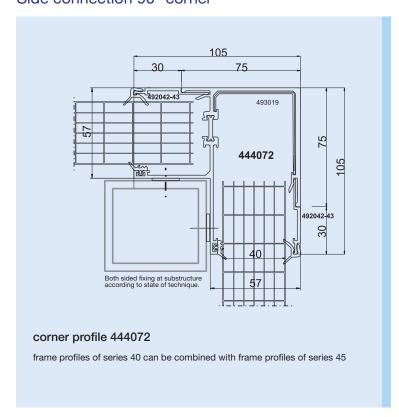
492042 = Front plate in L = 2.0 m**492043** = Front plate in L = 3.0 m

404080 = Top and side frame profile 493085 = Profile connector for 404080

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Side connection 90° corner



Side connection 90° corner with profile 444072

Article numbers

444072 = Corner profile

493019 = Profile connector for 444072

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

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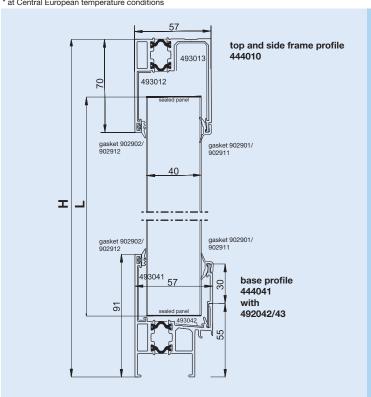
Translucent Building Elements

Series 44 40 | Frame system thermally broken



Stand: 02/16 -

Facade 90° up to 6m panel length*



Top profile 444010 Base profile 444041

Article numbers

444010 = Top and side frame profile 493012 = Profile connector for 444010 493013 = Profile connector for 444010

444041 = Base profile

493041 = Profile connector for 444041 493042 = Profile connector for 444041

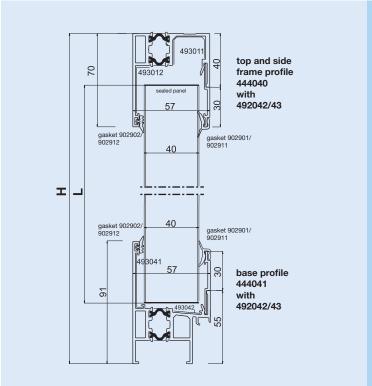
492042 = Front plate in L = 2.0 m 492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey **902911** = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Facade 90° up to 6m panel length*

at Central European temperature conditio



Calculation of panel length: L in mm = Height H in mm - 90 mm

444040

444041

Top profile **Base profile**

Article numbers

444040 = Top and side frame profile 493011 = Profile connector for 444040

493012 = Profile connector for 444040

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

444041 = Base profile

493041 = Profile connector for 444041 493042 = Profile connector for 444041

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 90 mm

Translucent Building Elements

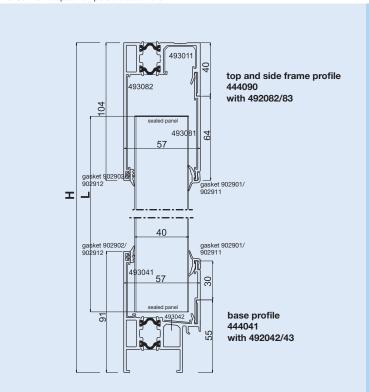
Series 44 40 | Frame system thermally broken



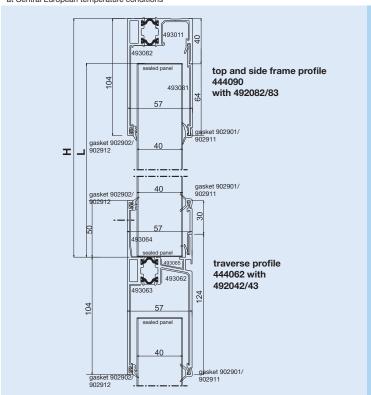
Stand: 02/16 -

Facade 90° up to 12m panel length*

* at Central European temperature conditions



Facade 90° up to 12m panel length*



Top profile 444090 Base profile 444041

Article numbers

444090 = Top and side frame profile 493011 = Profile connector for 444090 493082 = Profile connector for 444090

492082 = Front plate in L = 2.0 m 492083 = Front plate in L = 3.0 m 493081 = Profile connector for 492082/83

444041 = Base profile 493041 = Profile connector for 444041

493042 = Profile connector for 444041

492042 = Front plate in L = 2.0 m 492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 100 mm

Top profile 444090 **Traverse profile** 444062

Article numbers

444090 = Top and side frame profile 493011 = Profile connector for 444090 493082 = Profile connector for 444090 492082 = Front plate in L = 2.0 m 492083 = Front plate in L = 3.0 m

493081 = Profile connector for 492082/83

444062 = Traverse profile 493062 = Profile connector for 444062

493063 = Profile connector for 444062 493064 = Profile connector for 444062 493065 = Profile connector for 444062 **492042** = Front plate in L = 2.0 m

492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey **902911** = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 65 mm

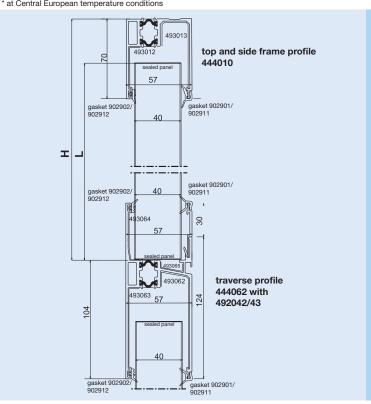
Translucent Building Elements

Series 44 40 | Frame system thermally broken

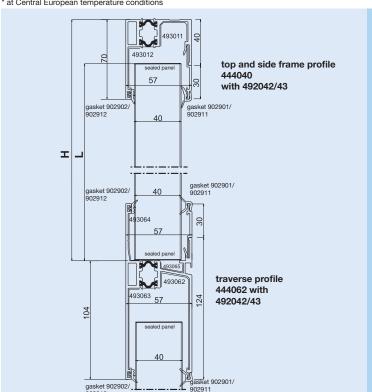


Stand: 02/16 -

Facade 90° up to 6m panel length*



Facade 90° up to 6m panel length*



Top profile 444010 **Traverse profile** 444062

Article numbers

444010 = Top and side frame profile 493012 = Profile connector for 444010 493013 = Profile connector for 444010

444062 = Traverse profile

493062 = Profile connector for 444062 493063 = Profile connector for 444062 493064 = Profile connector for 444062 493065 = Profile connector for 444062

492042 = Front plate in L = 2.0 m 492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 50 mm

Top profile 444040 **Traverse profile** 444062

Article numbers

444040 = Top and side frame profile 493011 = Profile connector for 444040 493012 = Profile connector for 444040

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

444062 = Traverse profile

493062 = Profile connector for 444062 493063 = Profile connector for 444062 493064 = Profile connector for 444062 493065 = Profile connector for 444062

492042 = Front plate in L = 2.0 m 492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 50 mm

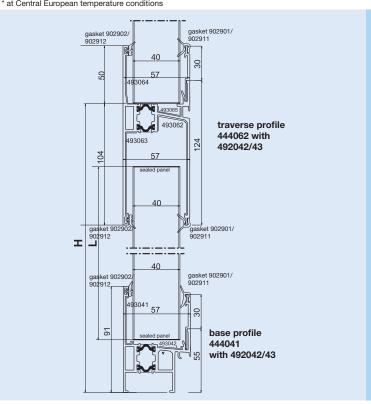
Translucent Building Elements

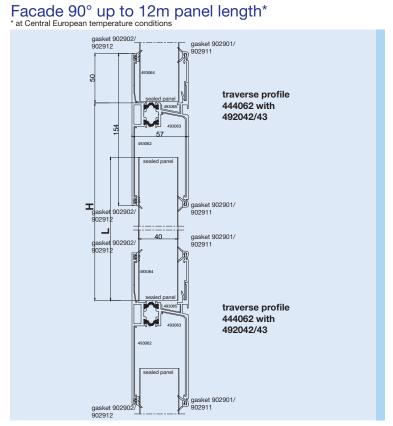
Series 44 40 | Frame system thermally broken



Stand: 02/16 -

Facade 90° up to 12m panel length* *at Central European temperature conditions





Traverse profile 444062 Base profile 444041

Article numbers

444062 = Traverse profile 493062 = Profile connector for 444062 493063 = Profile connector for 444062 493064 = Profile connector for 444062 493065 = Profile connector for 444062 444041 = Base profile

493041 = Profile connector for 444041 493042 = Profile connector for 444041

492042 = Front plate in L = 2.0 m 492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 100 mm

Traverse profile 444062 **Traverse profile** 444062

Article numbers

444062 = Traverse profile 493062 = Profile connector for 444062 493063 = Profile connector for 444062 493064 = Profile connector for 444062 493065 = Profile connector for 444062 492042 = Front plate in L = 2.0 m

492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 65 mm

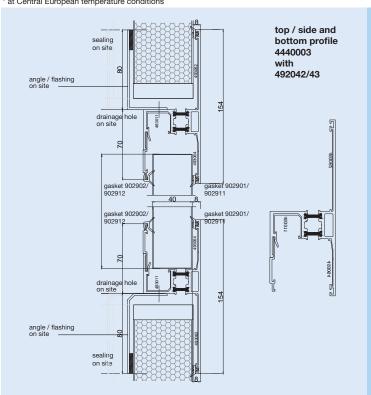
Translucent Building Elements

Series 44 40 | Frame system thermally broken



Stand: 02/16 -

Facade 90° up to 6m panel length*



Connection profile 4440003

(for e.g. sandwich panel)

Article numbers

4440003 = Connection profile

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

493063 = Profile connector for 4440003 493064 = Profile connector for 4440003 493011 = Profile connector for 4440003

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Angle or flashings as frame for e.g. sandwich panel on site

Calculation of panel length: L in mm = Height H in mm - 75 mm

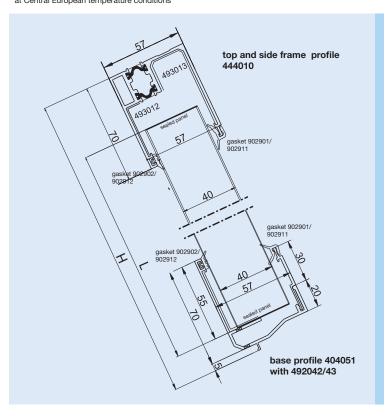
Translucent Building Elements

Series 44 40 | Frame system thermally broken

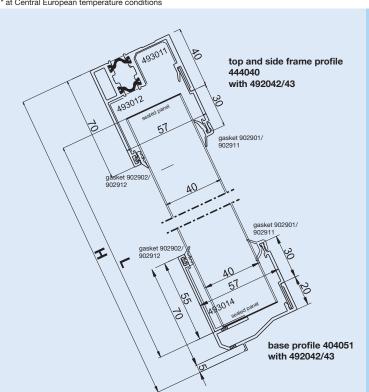


Stand: 02/16 -

Pitched installation >15° up to 6m panel length*



Pitched installation >15° up to 6m panel length* at Central European temperature conditions



Top profile 444010 **Base profile** 404051

Article numbers

444010 = Top and side frame profile 493012 = Profile connector for 444010 493013 = Profile connector for 444010

404051 = Base profile

493014 = Profile connector for 404051

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 55 mm

Top profile 444040 **Base profile** 404051

Article numbers

444040 = Top and side frame profile 493011 = Profile connector for 444040 493012 = Profile connector for 444040

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

404051 = Base profile

493014 = Profile connector for 404051

492042 = Front plate in L = 2.0 m **492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

L in mm = Height H in mm - 55 mm

Calculation of panel length:

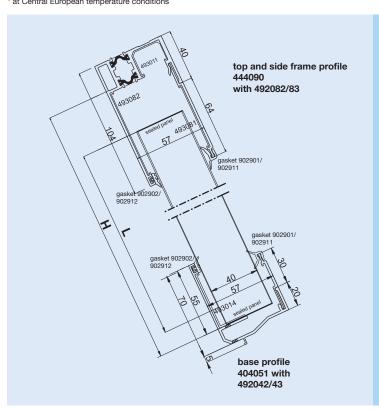
Translucent Building Elements

Series 44 40 | Frame system thermally broken



Stand: 02/16 -

Pitched installation >15° up to 6m panel length*



Top profile 444090 Base profile 404051

Article numbers

444090 = Top and side frame profile 493011 = Profile connector for 444090 493082 = Profile connector for 444090

492082 = Front plate in L = 2.0 m **492083** = Front plate in L = 3.0 m 493081 = Profile connector for 492082/83

404051 = Base profile

493014 = Profile connector for 404051

492042 = Front plate in L = 2.0 m**492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Calculation of panel length:
L in mm = Height H in mm - 75 mm

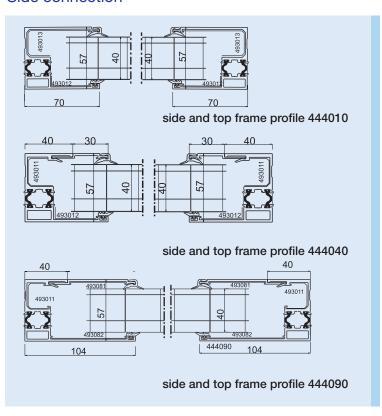
Translucent Building Elements

Series 44 40 | Frame system thermally broken

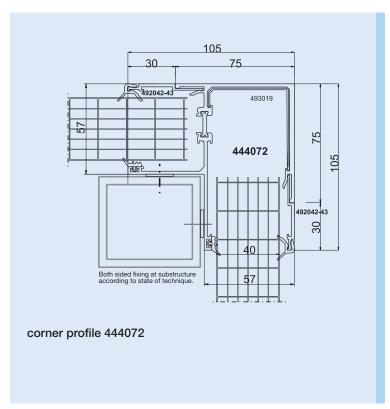


Stand: 02/16 -

Side connection



Side connection 90° corner



Side connection with frame profile series 44

Article numbers

444010 = Top and side frame profile
493012 = Profile connector for 444010
493013 = Profile connector for 444010

444040 = Top and side frame profile
493011 = Profile connector for 444040
493012 = Profile connector for 444040

492042 = Front plate in L = 2.0 m
492043 = Front plate in L = 3.0 m

444090 = Top and side frame profile
493011 = Profile connector for 444090
493082 = Profile connector for 444090

492082 = Front plate in L = 2.0 m
492083 = Front plate in L = 3.0 m
493081 = Profile connector for 492082/83

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Side connection 90° corner with profile 444072

Article numbers

444072 = Corner profile

493019 = Profile connector for 444072

492042 = Front plate in L = 2.0 m**492043** = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey

902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey

902912 = Inner lip gasket TPE black

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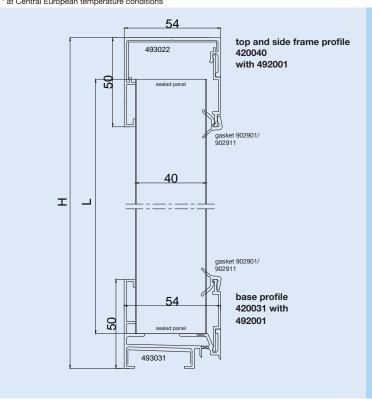
Translucent Building Elements

Series 42 00 | Frame system non-thermally broken



Stand: 02/16 -

Facade 90° up to 6m panel length*



Top profile 420040 Base profile 420031

Article numbers

420040 = Top and side frame profile 493022 = Profile connector for 420040

492001 = Front plate in L = 3.0 m

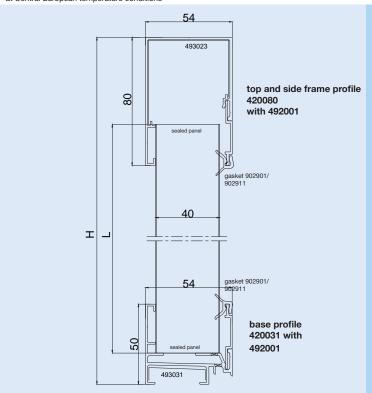
420031 = Base profile

493031 = Profile connector for 420031

492001 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

Facade 90° up to 12m panel length*



Calculation of panel length: L in mm = Height H in mm - 40 mm

Top profile Base profile

420080 420031

Article numbers

420080 = Top and side profile

493023 = Profile connector for 420080

492001 = Front plate in L = 3.0 m

420031 = Base profile

493031 = Profile connector for 420031

492001 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

Calculation of panel length:

L in mm = Height H in mm - 60 mm



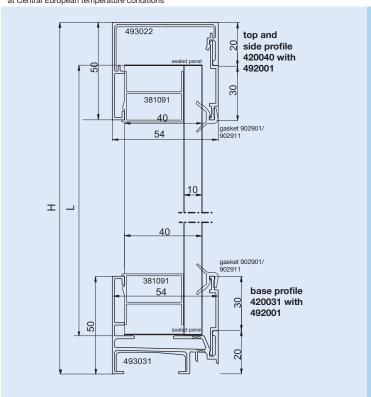
Translucent Building Elements

Series 42 00 | Frame system non-thermally broken Frame system for panel 2410-3



Stand: 02/16 -

Facade 90° up to 6m panel length*



Top profile 420040 Base profile 420031

Article numbers

420040 = Top and side profile

493022 = Profile connector for 420040

492001 = Front plate in L = 3.0 m

420031 = Base profile

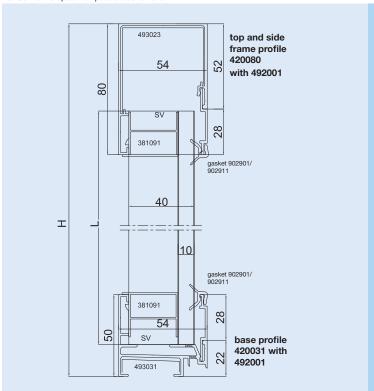
493031 = Profile connector for 420031

492001 = Front plate in L = 3.0 m

381091 = Polycarbonate filler in L = 34 cm

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

Facade 90° up to 12m panel length*



Calculation of panel length: L in mm = Height H in mm - 40 mm

Top profile **Base profile**

420080 420031

Article numbers

420080 = Top and side profile

493023 = Profile connector for 420080

492001 = Front plate in L = 3.0 m

420031 = Base profile

493031 = Profile connector for 420031

492001 = Front plate in L = 3.0 m

381091 = Polycarbonate filler in L = 34 cm

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

Calculation of panel length: L in mm = Height H in mm - 60 mm



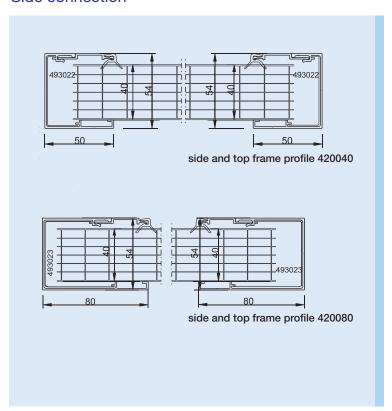
Translucent Building Elements

Series 42 00 | Frame system non-thermally broken



Stand: 02/16 -

Side connection



Side connection with frame profile series 42

Article numbers

420040 = Top and side profile 493022 = Profile connector for 420040

420080 = Top and side profile

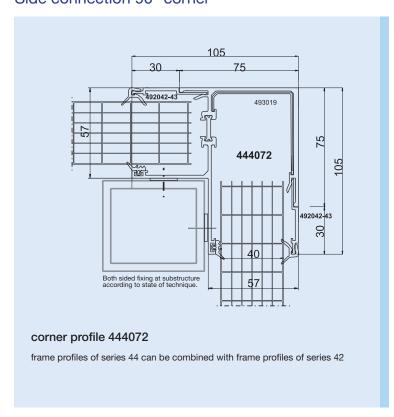
493023 = Profile connector for 420080

492001 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey 902912 = Inner lip gasket TPE black

Side connection 90° corner



Side connection 90° corner with profile 444072

Article numbers

444072 = Corner profile

493019 = Profile connector for 444072

492042 = Front plate in L = 2.0 m**492043** = Front plate in L = 3.0 m

492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey 902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey

902912 = Inner lip gasket TPE black

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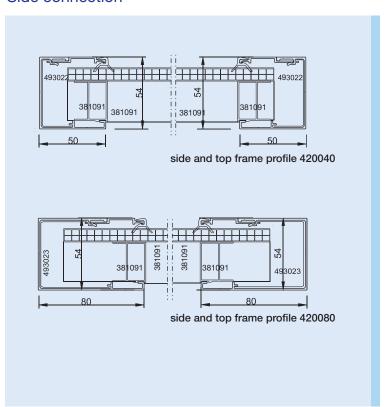
Translucent Building Elements

Series **42** 00 | Frame system non-thermally broken Frame system for panel 2410-3



Stand: 02/16 -

Side connection



Side connection with frame profile series 42

Article numbers

420040 = Top and side frame profile 493022 = Profile connector for 420040

420080 = Top and side profile

493023 = Profile connector for 420080

492001 = Front plate in L = 3.0 m

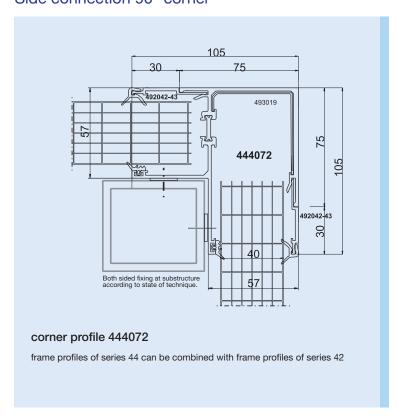
381091 = Polycarbonat filler in L = 34 cm

902901 = Outer plug gasket TPE grey **902911** = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey

902912 = Inner lip gasket TPE black

Side connection 90° corner



Side connection 90° corner with profile 444072

Article numbers

444072 = Corner profile

493019 = Profile connector for 444072

492042 = Front plate in L = 2.0 m

492043 = Front plate in L = 3.0 m

902901 = Outer plug gasket TPE grey

902911 = Outer plug gasket TPE black

902902 = Inner lip gasket TPE grey

902912 = Inner lip gasket TPE black

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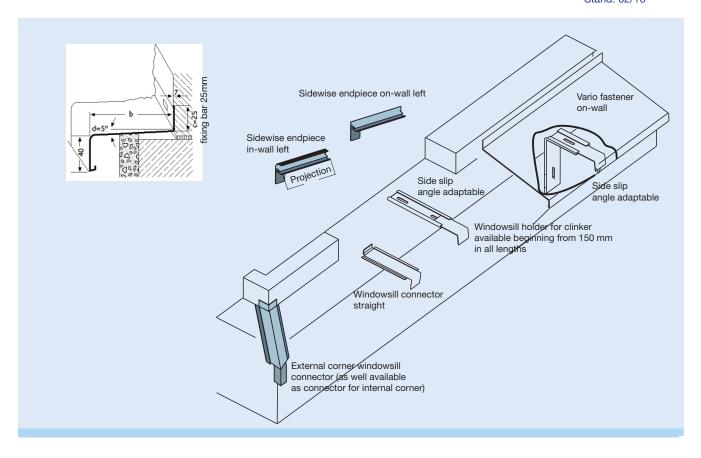


Translucent Building Elements

Series 4975 | Windowsills and Accessories



Stand: 02/16



Installation manual - Windowsill products Please note before installing:

- Thermal expansion of the profiles:
- Windowsills over 3,000 mm long must be divided in the middle and extended through a connection joint. The windowsills must be sufficiently fastened to the frame and be tight against rain water. The possibility for the windowsill to expand must be made sure depending on length.
- For sound insulation during heavy rains we recommend to provide windowsills with a sound absorptive stripe. The sound absorptive area should be around 1/3 of the windowsill area.
- For on-site fixing of windowsill on the profile (non-RODECA profile) of the windows the self-sealing gasket (black or white) is to be used.
- Aluminium windowsills should project about 40 mm over the finished facade. The profile width should be measured accordingly. This applies only for installations with side endings. Without side endings the projection of windowsills should not be lower than 20mm.
- From a projection/profile depth of 150 mm holders (Vario fastener or clinker fastener) are necessarily to be used on the structure (every 800 to 1,000 mm).

Note for installation:

Before installation of the side elements stick the sound absorbtive stripes approx. 50 mm behind the beginning of the drip edge on the bottom side of the windowsill profile.

Please don't forget to leave free approx. 30 mm on the front sides of the windowsill in order to be able to install the side elements.

On the predrilled (perforated) side of the windowsill insert the gasket, check the straight and precise seating of the rubber profile and remove the cover strip from the adhesive surface. (This does not apply to assemblies with RODECA profiles)

Before screwing the windowsills, if using Rodeca profiles, the base profile and chosen adapter (depending on the projection from zero up to two adapters can be used under the profiles) are installed to the supporting substructure. The side elements are to be clipped on in advance. After clipping on the side elements and fastening the windowsill, seal the connection points all around. Please leave at least 5 mm on each side of the windowsill for the thermal expansion.

If implementing full thermal protection it is important to make sure that the vario fastener is fixed before placing the insulation to the masonry. This also applies if using the holder for clinker installation.

The windowsill with the protective foil side at the top is to be fixed at the edge of the window using windowsill screws*. The foil may not be covered while assembling the connector elements. Make sure to provide the final windowsill slope of at least 5° after the assembly. When plastering the side elements please check the presence of expansion joint and keep in mind the thermal expansion of aluminium. Coarse mortar and plaster remnants must be removed immediately from the protective foil. After completion of the facade work in the windowsill area, the protective foil has to be removed as quickly as possible.

* Size of the screw head - 3.9 mm



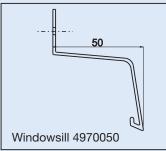
Translucent Building Elements

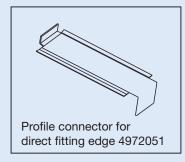
Series 4975 | Windowsills and Accessories

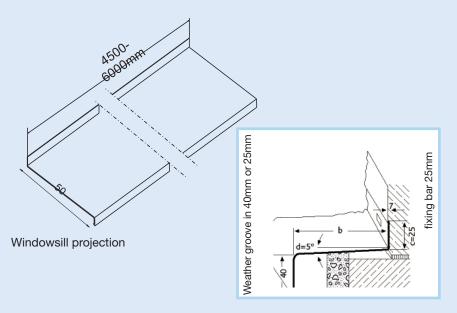


Stand: 02/16 -

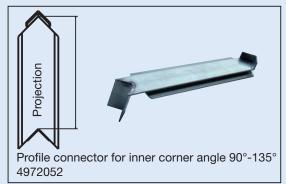
Example for construction group:

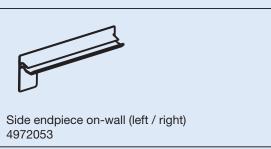


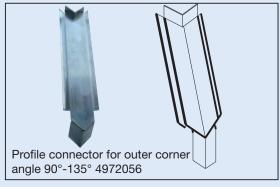


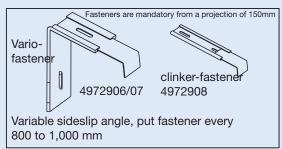


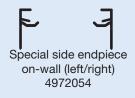
Example: article numbers for a 50 mm windowsill projection:



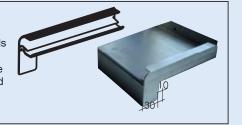








• Aluminium windowsills should project approximately 40 mm over the ready facade. Accordingly the profile width needs to be measured. This is only valid if side endpieces are installed too. Without side endpieces in place the windowsill should not project less than 20 mm over the ready facade.



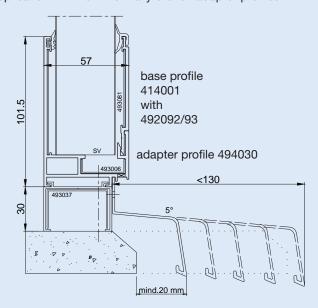
Translucent Building Elements

Series 41 40 | Windowsills and Accessories



Stand: 02/16

Aluminium windowsills for Rodeca base profiles of series 41. Application with non-thermally broken adapter profiles.



Base profile 414001 with adapter 494030 for windowsill projections from 50 to 130 mm.

General

For profiles of series 41 we offer an adapter profile for the connection of windowsills with varying projections.

Initial lengths/-units

Aluminium profile 6.00 m Profile connector 10 cm

Article numbers

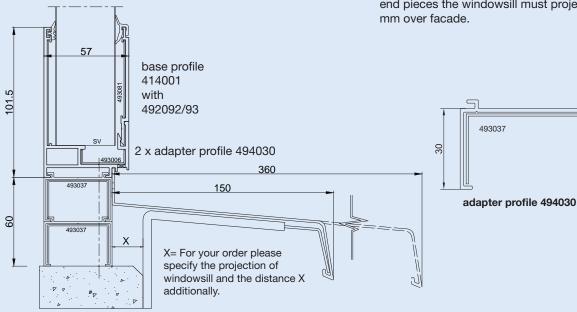
4971070 = windowsill 70mm projection **4971110** = windowsill 110mm projection **4971150** = windowsill 150mm projection

windowsill with 70mm / 110 mm / 150 mm available from stock

494030 = Adapter profile for profiles 414011 and 414001 493037 = Profile connector for 494030

For use with adapter profile 494030 the allowance for calculation of panel length must be increased by 30 mm per adapter profile.

Aluminium windowsills should project approx. 40 mm over facade. This applies only if side end pieces are installed. Without side end pieces the windowsill must project 20 mm over facade.



Base profile 414001 with 2 x adapter 494030 for windowsill projections from 150 to 360 mm.



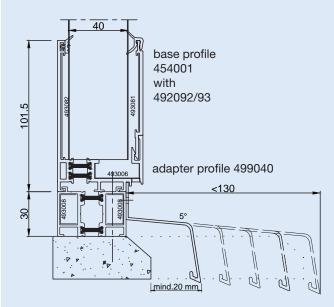
Translucent Building Elements

Series 45 40 | Windowsills and Accessories



Stand: 02/16 ·

Aluminium windowsills for Rodeca base profiles of series 45. Application with thermally broken adapter profiles.



Base profile 454001 with adapter 499040 for windowsill projections from 50 to 130 mm.

General

For profiles of series 45 we offer an adapter profile for the connection of windowsills with varying projections.

Initial lengths/-units

Aluminium profile 6.00 m Profile connector 10 cm

Article numbers

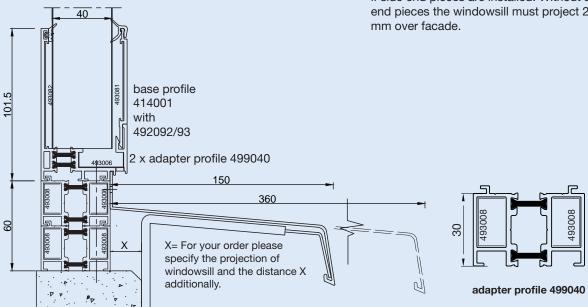
4971070 = windowsill 70mm projection 4971110 = windowsill 110mm projection 4971150 = windowsill 150mm projection

windowsill with 70mm / 110 mm / 150 mm available from stock

499040 = Adapter profile for profiles 454011 and 454001 493008 = Profile connector for 499040

For use with adapter profile 499040 the allowance for calculation of panel length must be increased by 30 mm per adapter profile.

Aluminium windowsills should project approx. 40 mm over facade. This applies only if side end pieces are installed. Without side end pieces the windowsill must project 20



Base profile 414001 with 2 x adapter 499040 for windowsill projections from 150 to 360 mm.



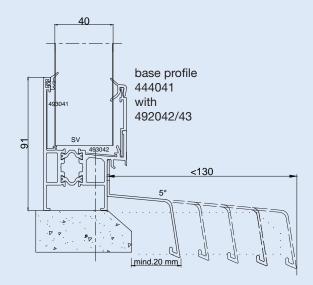
Translucent Building Elements

Series 44 40 | Windowsills and Accessories



Stand: 02/16 -

Aluminium windowsills for Rodeca base profiles of series 44.



General

For profiles of series 44 we offer windowsills with varying projections.

Initial lengths/-units

Aluminium profile 6.00 m

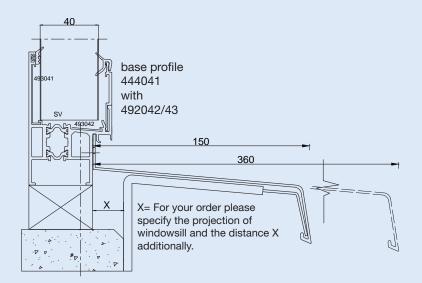
Article numbers

4971070 = windowsill 70mm projection **4971110** = windowsill 110mm projection **4971150** = windowsill 150mm projection

windowsill with 70mm / 110 mm / 150 mm available from stock

Aluminium windowsills should project approx. 40 mm over facade. This applies only if side end pieces are installed. Without side end pieces the windowsill must project 20 mm over facade.

Base profile 444041 for windowsill projections from 50 to 130 mm.



If windowsills with a projection of over 150mm are used the base profile must be elevated.



Translucent Building Elements

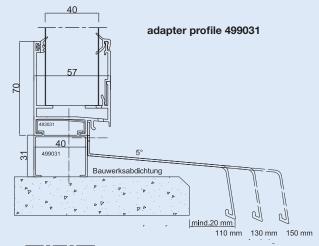
Series 40 40 | Windowsills and Accessories

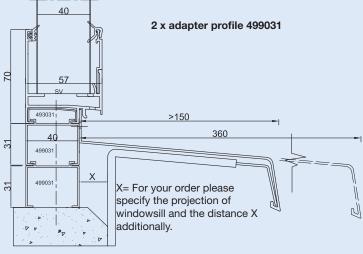


Stand: 02/16

Aluminium windowsills for Rodeca base profiles of series 40. Application with non-thermally broken adapter profiles.

adapter profile 499080 incl. 80mm windowsill (Side end pieces and profile connectors cannot be installed with this adapter profile)





General

For profiles of series 40 we offer an adapter profile for the connection of windowsills with varying projections.

Initial lengths/-units

Aluminium profile 6.00 m Profile connector 10 cm

Article numbers

4971070 = windowsill 70mm projection 4971110 = windowsill 110mm projection 4971150 = windowsill 150mm projection

windowsill with 70mm / 110 mm / 150 mm available from stock

499080 = Adapter profile for profile 404031 incl. windowsill with 80mm projection

493086 = Profile connector for 499080

499031 = Adapter profile for profile 404031

For use with adapter profile 499080 the allowance for calculation of panel length must be increased by 15 mm per adapter profile.

For use with adapter profile 499031 the allowance for calculation of panel length must be increased by 31 mm per adapter profile.

Aluminium windowsills should project approx. 40 mm over facade. This applies only if side end pieces are installed. Without side end pieces the windowsill must project 20 mm over facade.

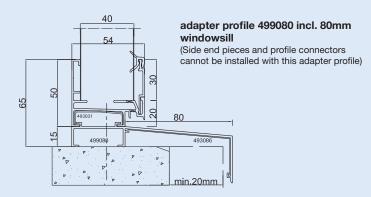
Translucent Building Elements

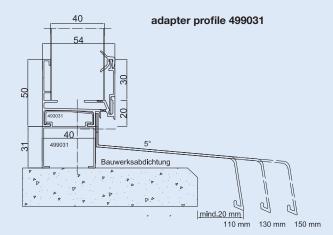
Series 42 00 | Windowsills and Accessories

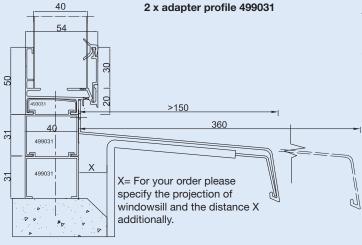


Stand: 02/16

Aluminium windowsills for Rodeca base profiles of series 42. Application with non-thermally broken adapter profiles.







General

For profiles of series 42 we offer a adapterprofile for the connection of windowsills with varying projections.

Initial lengths/-units

Aluminium profile 6.00 m Profile connector 10 cm

Article numbers

4971070 = windowsill 70mm projection **4971110** = windowsill 110mm projection **4971150** = windowsill 150mm projection

windowsill with 70mm / 110 mm / 150 mm available from stock

499080 = Adapter profile for profile 404031 incl. windowsill with 80mm projection

493086 = Profile connector for 499080

499031 = Adapter profile for profile 404031

For use with adapter profile 499080 the allowance for calculation of panel length must be increased by 15 mm per adapter profile.

For use with adapter profile 499031 the allowance for calculation of panel length must be increased by 31 mm per adapter profile.

Aluminium windowsills should project approx. 40 mm over facade. This applies only if side end pieces are installed. Without side end pieces the windowsill must project 20 mm over facade.



Unfold your creativity plan with us!

The new generation of multi layered polycarbonate panels



The RODECA principle

Simpler design

The proven geometry of the translucent building elements and optimized fasteners essentially increase the load capacities of panels. Furthermore premium quality frame and window systems for facade and roof applications have been developed to make the system universally applicable.

Translucent heat insulation

ISOCLEAR Series with a U-Value of 0.77 W/m²K - 3.0 W/m²K (depending on the type of installation) defines new standards in thermal insulation for the facades and roof glazing. The new heat insulation values established by the Thermal Regulation are achieved and even exceeded by the products of ISOCLEAR Series. In view of rising energy costs this is a decisive criterion in selecting appropriate glazing materials for energy-efficient buildings.







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- RODECA U-Panels from Polycarbonate
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- RODECA RT-THERMOLIGHT Roof light systems for ISO-Panel for roof and facade applications
- RODECA Windows for Roof and Façade
- RODECA Do It Yourself product range

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