INSPIRATION GUIDE

GYREX.

PRODUCER OF GLASS REINFORCED GYPSUM

Dear reader,

Welcome to Gyrex! I warmly welcome you to our world of innovative GRG solutions. Discover our standard applications and custom solutions that inspire.

With Gyrex GRG you have quality standard elements that are both functional and aesthetic. Our easy-to-install product offers excellent strength and durability.

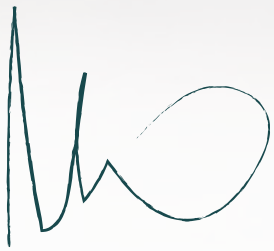
Every day we focus on tailor-made solutions that meet your unique needs. Discover our customization and how we can bring your vision to life.

Explore the world of Gyrex and experience boundless creativity and quality.

I hope to see you soon.

Yours sincerely,

Christopher Monsieurs
Driver, Gyrex



INHOUD

1

Our company

Gyrex is a Belgian manufacturer of GRG plaster, the light, form-retaining and non-combustible alternative to plaster. With endless applications and fast production, this eco-friendly glass fiber reinforced plaster offers architects, designers and installers the ultimate creative freedom to realize unique and bespoke designs. With GRG plaster they can color outside the traditional boundaries while maintaining sustainability and fire safety.

Gyrex GRG plaster is an innovative and durable material that stimulates the imagination of architects, designers and professional installers.

Advantages

Our expertise lies in manufacturing exclusive and elegant elements with the unique properties of Gyrex-GRG, making boundless possibilities a reality. Our custom-made prefab elements and vulcanization ensure effortless and quick installation without seams or joints, resulting in stunning and unique creations that are only limited by your imagination and creativity as a designer, architect, or installer.

Non-combustible
Fire Reaction Class A1

Solution for
Complex Details

Lightweight
4-9 kg/m³

100% green and
recyclable

Time savings on site

Seamless connection with drywall

Impact-resistant and shape-retaining

Certified Wheelmark

Baustoff+Metall Belgium
ans@baustoff-metall.com
www.baustoff-metall.be

Baustoff+Metall The Netherlands
denbosch@baustoff-metall.com
www.baustoff-metall.nl

Exclusive distributor

Our exclusive partnership with Baustoff+Metall, a leading distributor in the construction industry, represents a unique strategic strength.

This partnership combines our expertise in the development and production of high-quality GRG gypsum with the extensive distribution networks and strong market position of Baustoff+Metall in the Benelux and the rest of Europe.

This synergy allows architects, contractors and other construction professionals to benefit from seamless access to Gyrex GRG gypsum through Baustoff+Metall's extensive distribution network.
In short, this partnership results in improved availability, quality and service of GRG plaster for the construction sector.

Always a store nearby

ANDERLECHT
Rue Bollinckx, 217
1070 Anderlecht
+32 (0)2 528 18 80

ANS
Rue d'Othée, 237
4430 Ans
+32 (0)4 361 64 64

CHARLEROI
4ème rue, 20
6040 Jumet
+32 (0)7 125 69 40

DEURNE
Bisschoppenhoflaan 285
2100 Deurne
+32 (0)3 327 32 40

EVERE
Rue Auguste de Boeck, 66
1140 Evere
+32 (0)2 708 69 59

GENT
Veeweg, 9
9000 Gent
+32 (0)9 265 97 30

HASSELT
Sasstraat 2
3500 Hasselt
+32 (0)1 166 80 50

DEN BOSCH
Docterskampstraat 6
5222 AM 's-Hertogenbosch
+31 73 627 05 60

ROELOFARENDSVEEN
Cilinderweg 30
2371 DZ Roelofarendsveen
+31 71 751 77 51

ZWOLLE
Voltastraat 12-14
8013 PM Zwolle
+31 38 200 4500

2

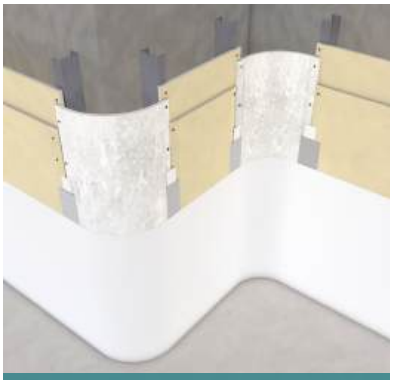
Standard elements

Fast, efficient and extremely sturdy

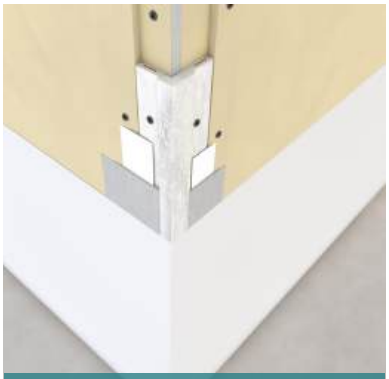
Gyrex-GRG is a particularly light, dimensionally stable, non-flammable and environmentally friendly product with endless applications. We offer the most important applications for the professional installer in a range of standard elements. This allows the installer to work quickly and efficiently and the customer enjoys a seamless and solid end result.

U-Profile

Curved U- Profile



Curved corners



Impact resistant corner

Cove for indirect light

Flush plinth

Gyrex U-profile

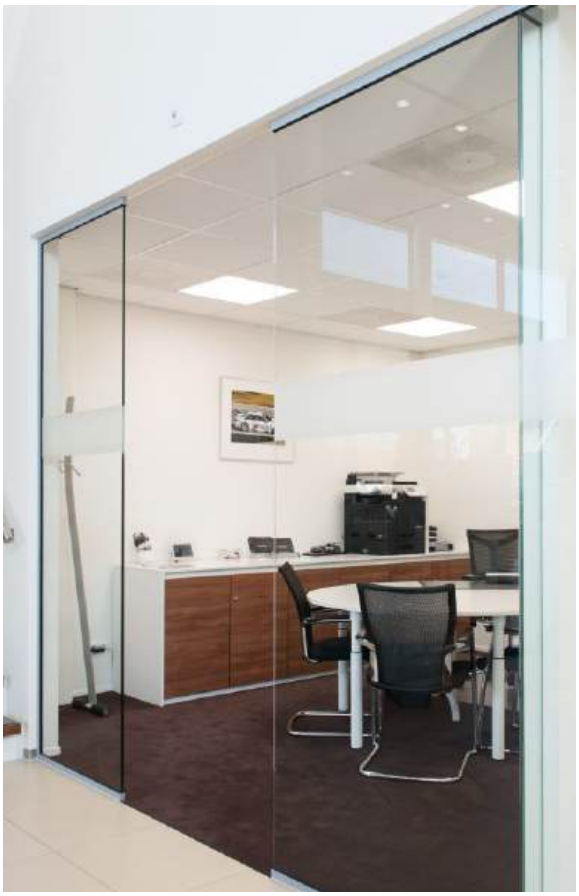
The Gyrex U-profile takes the quality and speed of reveal finishing to unprecedented heights. With the U-profile you enjoy an unparalleled finish of wall ends that are not only impact-resistant, but also create a perfect retombé for glass walls. Thanks to this innovative element you are assured of a professional result where both craftsmanship and efficiency come together.

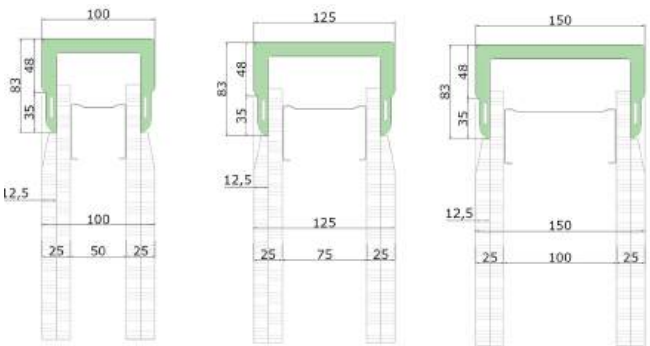
Mounting

The U-profile is slid over the wall and then positioned straight using a laser or level.

Next, the ABA edges of the profile are secured with drywall screws that have a drill point.

To finish the joints, the same finishing class as the drywall is used, along with a paper joint tape.





The Gyrex U-profile is available in various wall thicknesses, each with a length of 3000 mm.

Gyrex curved U-Profile

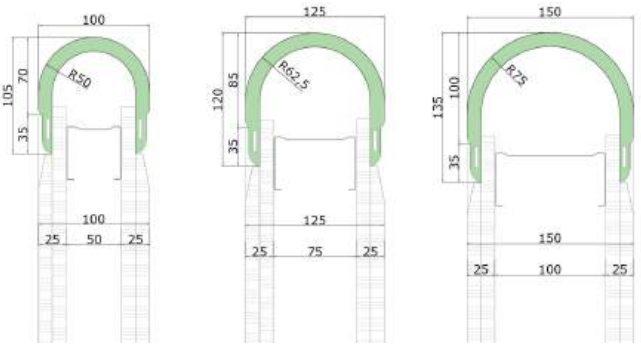
With the Gyrex curved U-profile, you enjoy an unparalleled semi-round finish for wall ends that are not only impact-resistant but also create a perfect curvature of the wall thickness. Thanks to this element, you are guaranteed a beautiful rounding that provides an aesthetic flow to the wall.

Mounting

The curved U-profile is slid over the wall and then positioned straight using a laser or level.

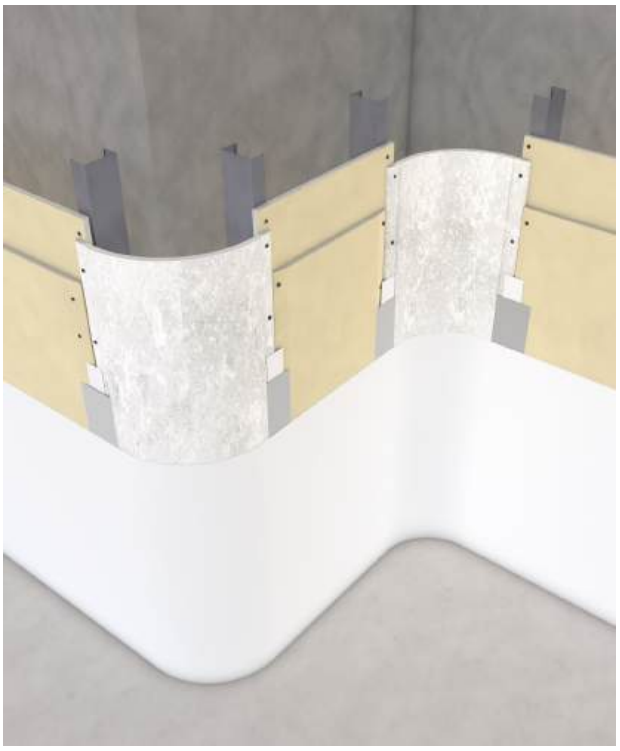
Next, the ABA edges of the profile are secured with drywall screws that have a drill point.

To finish the joints, the same finishing class as the drywall is used, along with a paper joint tape.



The Gyrex curved U-profile is available in various wall thicknesses, each with a length of 3000 mm.

Gyrex curved corner

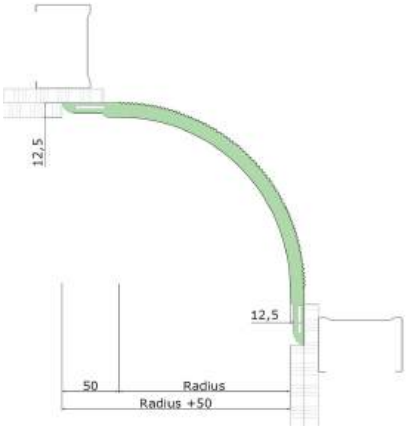


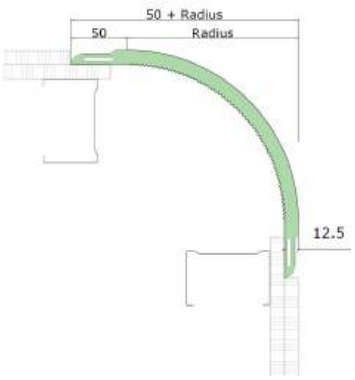
The Gyrex flush GRG skirting board offers an absolutely seamless wall finish, with unparalleled impact resistance. Thanks to these high-quality prefab elements, you can enjoy a truly stunning and sleek finish to your interior project. The result is a breathtaking aesthetic that will delight the eyes and give your space an unprecedented elegance.

Mounting

The curved corner is simply slid against the wall. It is then positioned straight using a laser or level and secured to the ABA edges with drywall screws that have a drill point.

Next, the second layer of drywall is placed against our element. The joints are then finished with the same finishing class as the drywall, using paper joint tape.



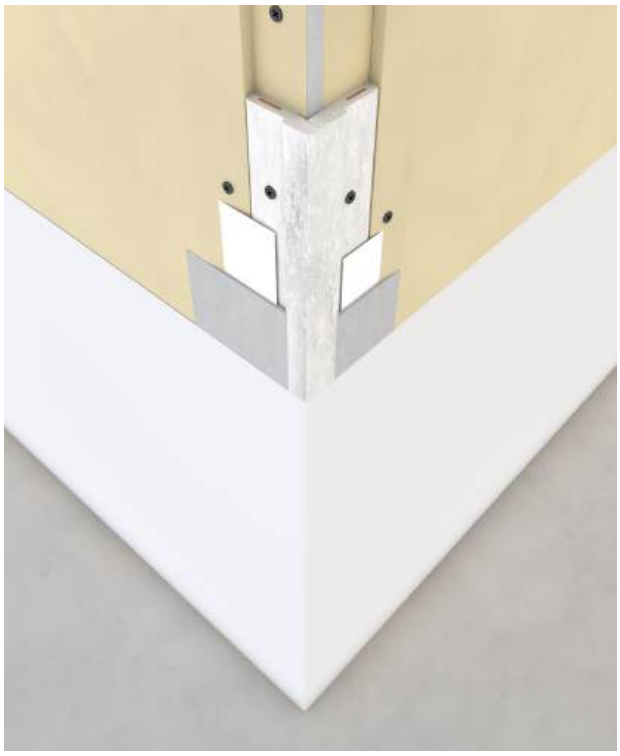


The curved corners are available with a radius of

30mm - 50mm - 100mm 150mm - 200mm - 250mm - 300mm - 350mm - 400mm - 450mm - 500mm - 600mm
All with a length of 3000 mm.

Other sizes available upon request.

Impact resistant corner

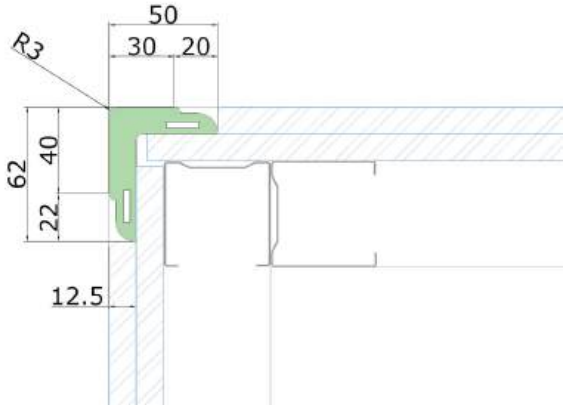


The Gyrex impact-resistant GRG corner ensures a durable finish for your project. Let your space shine with our corners, available in both a sharp right angle finish and an elegant subtle rounding. With these high-quality corners, you can be assured of impressive aesthetics and a durable result that will stand the test of time.

Mounting

The corners are slid against the wall. They are then positioned straight using a laser or level and secured to the ABA edges with drywall screws that have a drill point.

Next, the second layer of drywall is placed against our element. The joints are then finished with the same finishing class as the drywall, using paper joint tape.



The impact-resistant corners are available in thicknesses of 12.5 or 15 mm and with a length of 3100 mm.

Gyrex Cove for indirect light

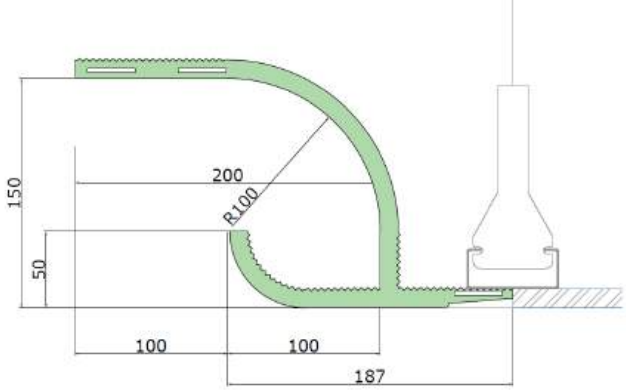
The Gyrex cove for indirect lighting is quick to assemble, so you are assured of an amazing result in no time. The rounded top of these coves ensures optimal light distribution, transforming your space into an oasis of clarity and beauty. Be inspired by the seamless perfection and enjoy an unparalleled aesthetic that illuminates every corner of your project.

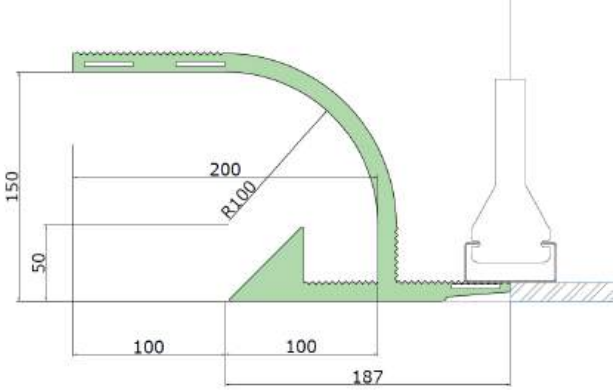
Mounting

The soffit can be attached directly to the structure of your false ceiling, allowing for a seamless finish.

It is positioned straight using a laser or level and secured to the ABA edges with drywall screws that have a drill point.

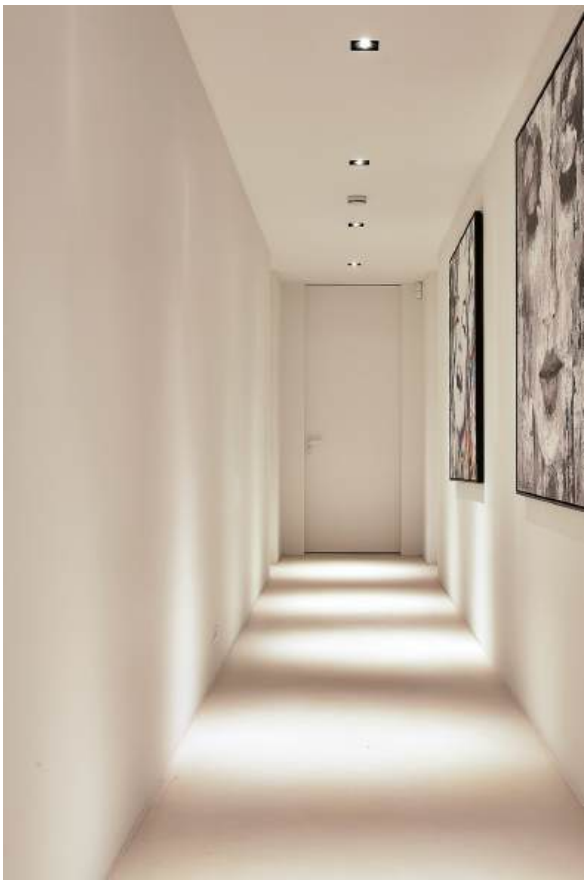
The joints are then finished with the same finishing class as the drywall, using paper joint tape.





Gyrex flush plinth

The Gyrex flush plinth offers an absolutely seamless wall finish, with unparalleled impact resistance. Thanks to these high-quality prefab elements, you can enjoy a truly stunning and sleek finish to your interior project. The result is a breathtaking aesthetic that will delight the eyes and give your space an unprecedented elegance.

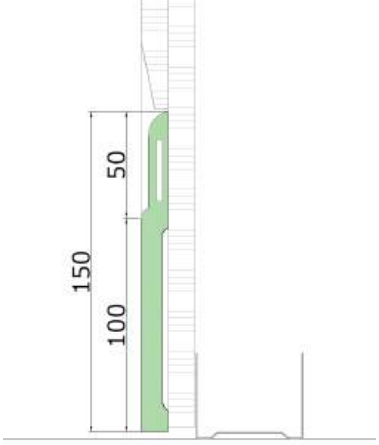


Mounting

The skirting board is positioned at the finished height using a laser and secured to the ABA edges with drywall screws that have a drill point.

Next, the second layer of drywall is placed on our skirting board.

The joints are then finished with the same finishing class as the drywall, using paper joint tape.



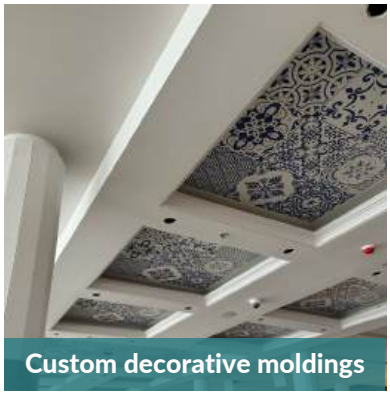
These skirting boards are available in a thickness of 12.5 mm and a length of 3000 mm.

2.1

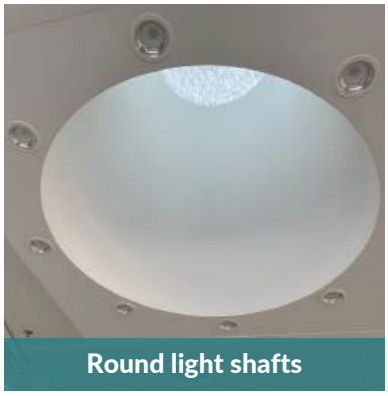
Prefab solutions

In addition to the standard solutions that Gyrex offers, there are many other possibilities with Gyrex GRG. For example, the prefab solutions are a good alternative to standard plastering. Prefab applications arrive ready to use on the construction site and provide great convenience for the installer.

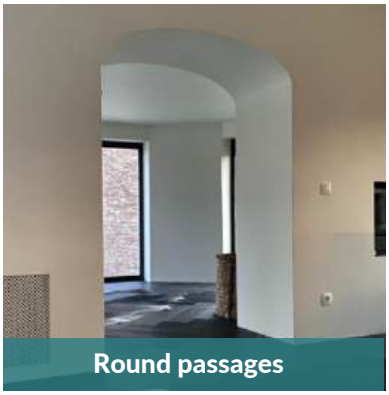

Curtain coves


Custom decorative moldings


Seamless window frames

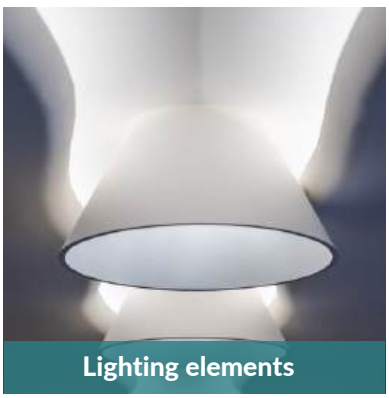

Round light shafts


Recessed niches


Round passages


Level reductions


Column finishing


Lighting elements

3

Customization

The solution for your imagination

Imagine a world where your most unique visions become reality. Welcome to the land of Gyrex, the undisputed master of customization for one-off projects and products. Here, in this boundless realm, there are no limitations. Anything you can imagine can be transformed into tangible shapes and structures, like a wondrous dance between your imagination and our skillful hands.



Installation benefits

Opt for carefree and quick installation with our prefab elements and lightweight material. With a finish such as plasterboard seams you create a strong seamless whole of unprecedented quality



4

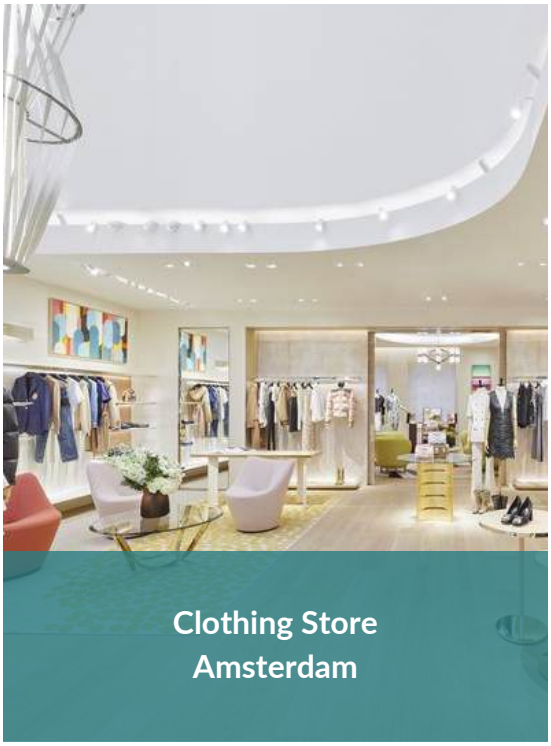
Inspiration

**Your imagination is our key
to unlocking creative achievements.**

Blue Nash - Antwerp
Britt Van Namen

Renessence - Amsterdam
Hubert Crijns Architecten

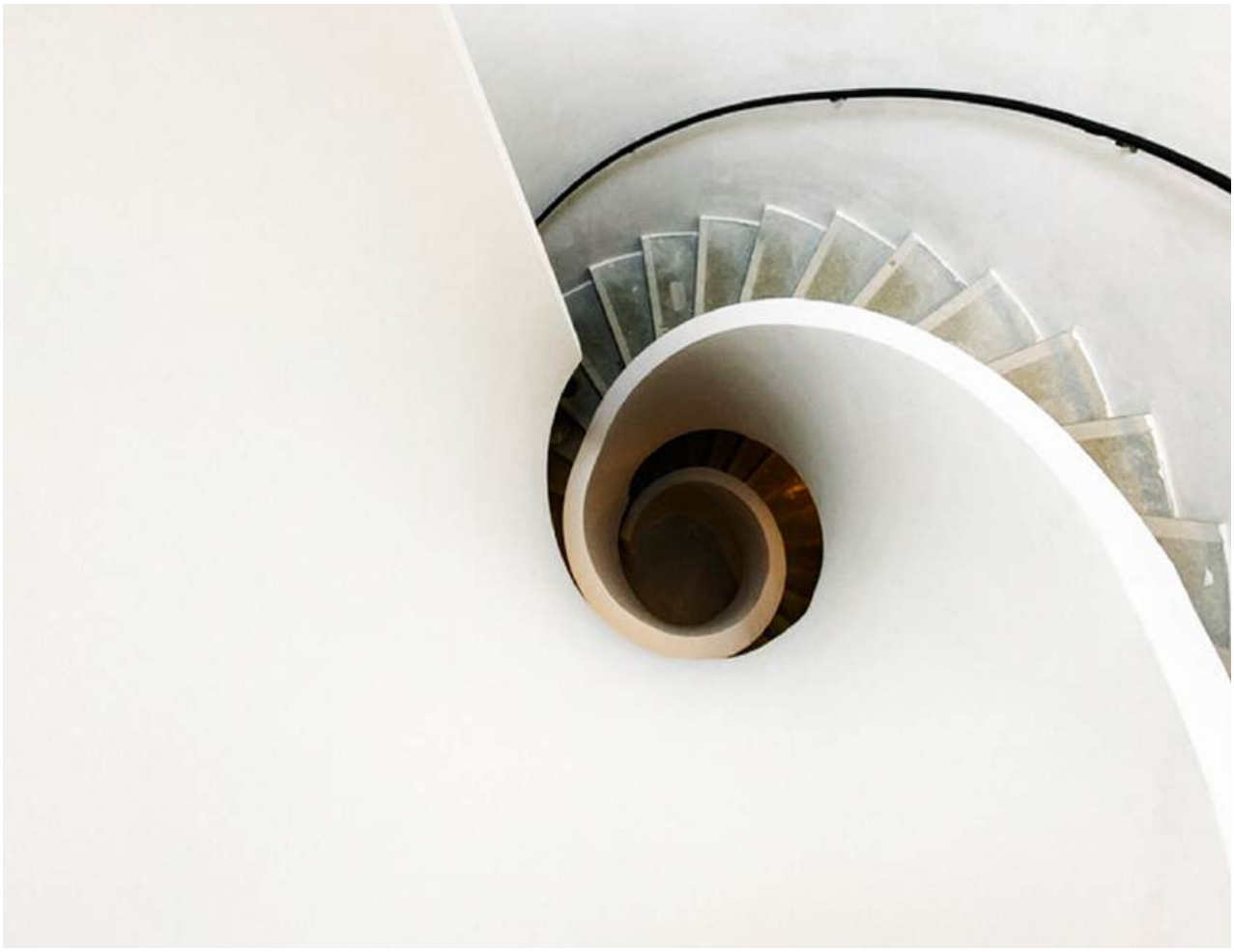
Hotel Royal Belge - Brussels
Bovenbouw architectuur



Clothing Store
Amsterdam

OOGWENK - Turnhout
Marlies Depoortere

FelFel Restaurant
Antwerp

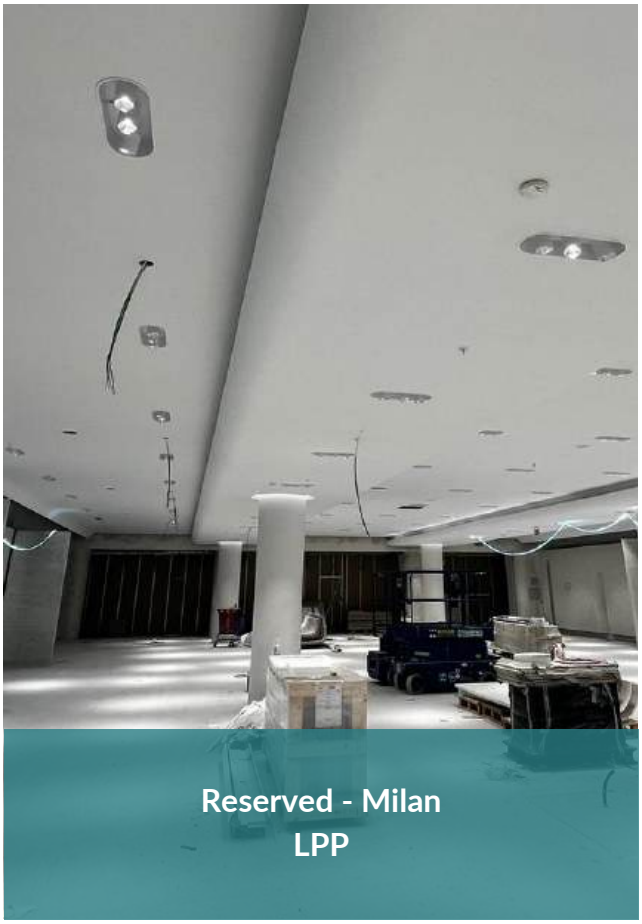


Apartment building - Putte
FORK Architect


05SE08177

European Parliament - Brussels
ASSAR Architects

Royal Golf complex - Waterloo
DF&Associés

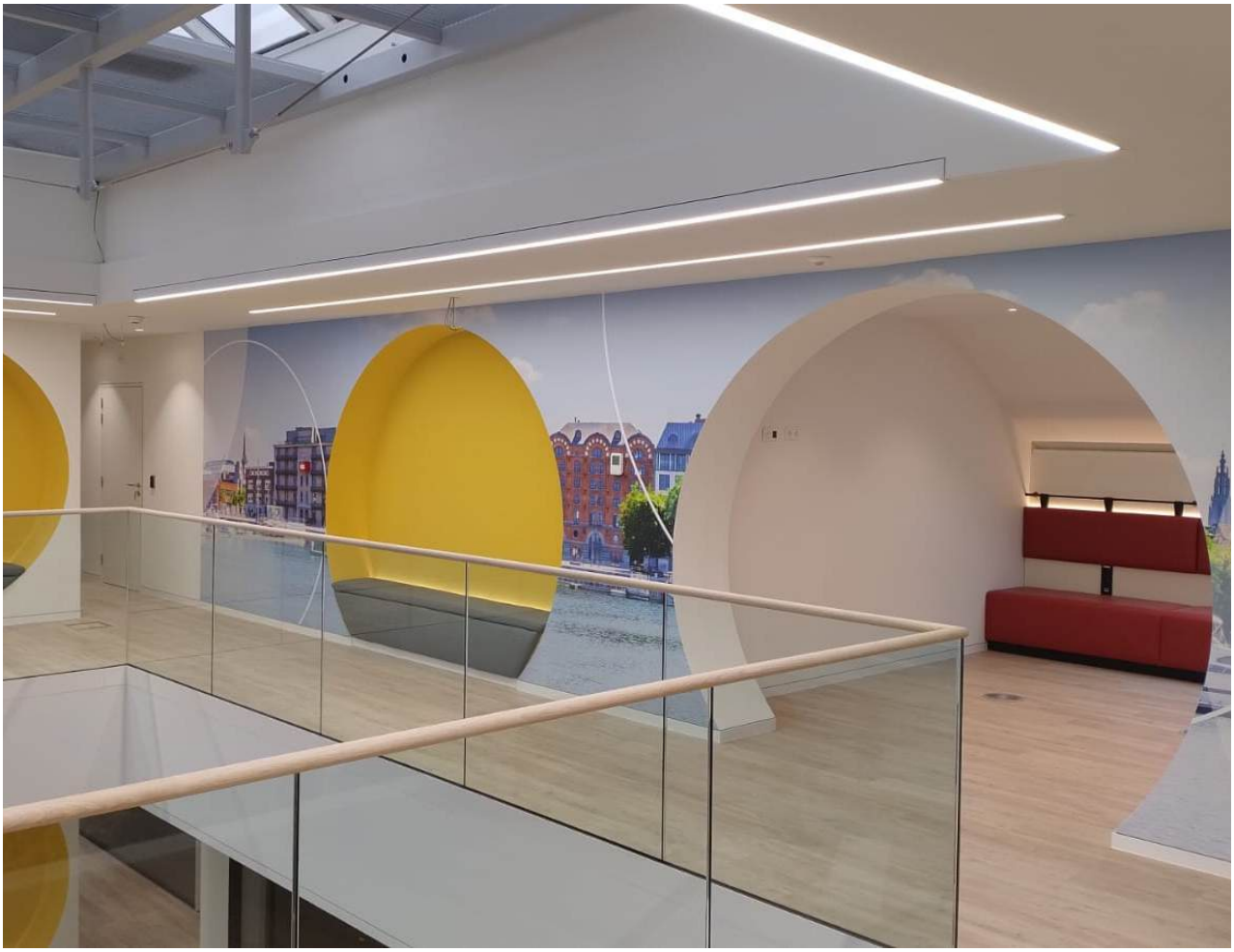


Reserved - Milan
LPP

Hotel Botanic -Antwerp
AID Architecten

Roularta - Brussels
RMK Afbouw

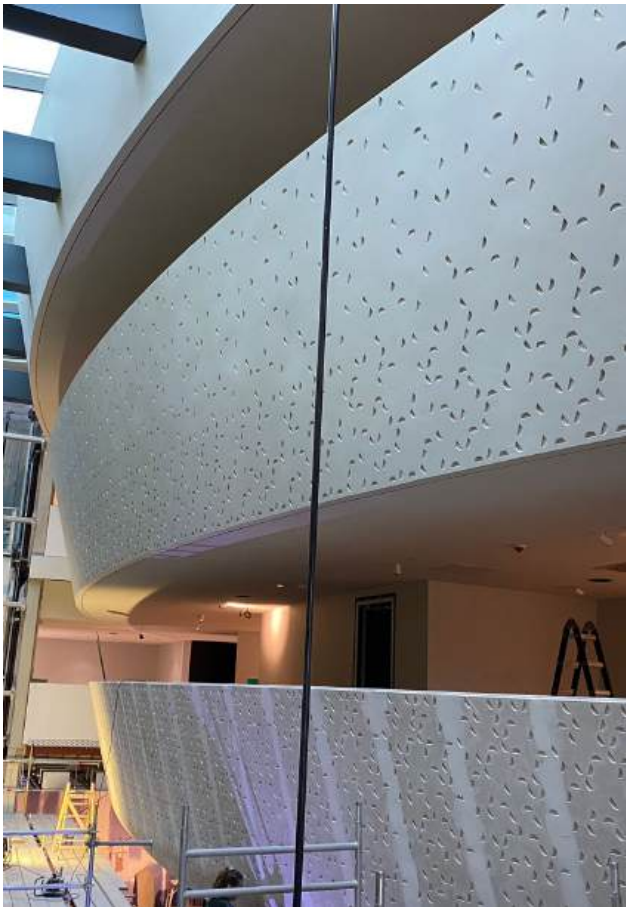
Booking.com - Amsterdam
UN Studio



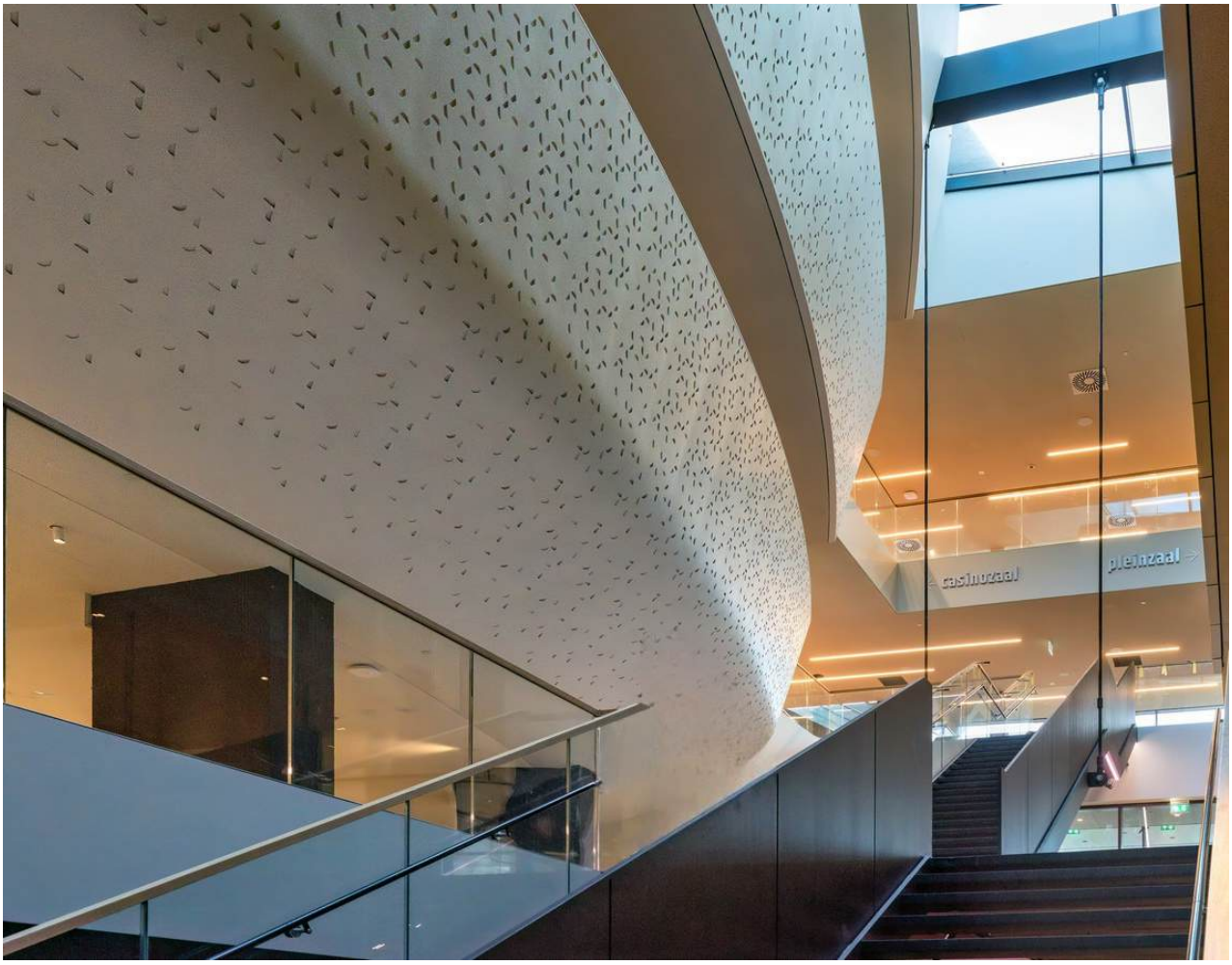
Mastercard - Brussels
Altiplan

Link 21 - Herentals
Wilma Wastiau

NBC Convention center
Nieuwegein



Theater aan de Parade - Den Bosch
NOAHH



Dorimo - Maastricht
Factor Architecten

Notes

5

Specification text

1. Glass Reinforced Composite - GRG

1.1. General

Glass Reinforced Composite (GRG) is a white 'thin shell' alpha plaster reinforced with fiberglass mats. Because of its light weight, strength and finish, it can be used in interior finishing.

1.2. Compound

1.2.1 Alpha plaster

Alpha plaster is made entirely of Calcium (II) sulfate Hemi hydrate (CaSO4.1/2 H2O) alpha plaster with an addition of a curing additive. The composition can be formulated as follows:

- Calcium (II) sulfate Hemi hydrate (CaSO4.1/2H2O) : 99.98%
- Patented inorganic additive : 0.02%

1.2.2 Fiberglass Mats

E-glass mat on a roll consisting of randomly oriented fibers in several layers composed with a suitable binder and silane coupling agent.

The E-glass fiber combines the electrical and mechanical properties of traditional E-glass with the acid corrosion resistance of E-CR glass.7

1.2.2.1 Fiberglass mat specification

Dimensionering	Binder type	Oplosbaarheid in styreen	*Lineaire gewicht van fundam entele onderdelen (tex)*	Hechtingsverlies %	Vochtgehalte %	Gewicht Kg/m²
Sylane	Polyester	Laag	25	6	< 0.15	0.3

1.3 Performance Requirements

The product is generally 7mm. thick, except for parts that require more durability. The final product has a nominal weight of 7-9 kg/m² and a Rockwell hardness of M72.

Gyrex GRG with regard to its reaction to fire behavior achieves the following classification:
A1according to standard EN13501-1:2018 – report number 20858e EN13501-1
A2-S1-D0 according to standard EN13501-1:2018 – report number 20858C EN13501-1 On substrate

G.R.G. is generally supplied as a painter-ready product (the natural color of the product ranges from white to grey-white with a visible fiberglass pattern). Unevenness, screw holes still need to be finished and sanded. G.R.G. is subject to water damage if constantly placed in a very wet place. It is recommended to use a relatively dry place to avoid damage.

1.3.1 Tolerances

The final dimensions of the finished G.R.G. product should be such that when installed, all dimensions meet the following permissible criteria or architectural requirements:

- For a total length and height of maximum 3 meters, the deviation may only be ± 3 mm per m1.
- The edges show a deviation of ± 3 mm. and the evenness, i.e. the deviation over 1 meter of straight edge line placed at any point on a slab, should show a smooth surface with deviation understood to be around ± 3 mm.
- Squareness of corners: it concerns the difference between the work performed compared to the prescribed angles (reveals, fireplaces, ...), which can be straight or oblique. The predetermined angle may not differ from the design by more than 5°.

Important: A finished surface should never be produced under glancing light or backlighting. According to the rules of the art, delivery takes place in daylight, with the naked eye and from a distance of 2 m, perpendicular to the surface to be checked. All control methods that deviate from this are not allowed.

1.4 Installation

Given the special aspect of each individual product, fewer structures will be required for a G.R.G. installation than with conventional systems for installing gypsum panels and other materials.
G.R.G. usually installed on lightweight components placed around plasterboard ceilings.
These components can be used for both vertical and horizontal surfaces and this is therefore the most efficient way of working. If necessary, due to a special design, a second more solid steelwork can be placed first.
The ceiling parts are suspended by sprung quick hangers. The maximum intermediate distance is 1200 mm, connection quick hanger and GRG element is done by a bound metal ceiling profile.
The interconnection of two GRG elements is always done by vulcanization along the non-visible side and the eruption along the visible side is removed with a spatula. All screw holes and gaskets are filled with the same plaster mixture used in the production process. Traditional sealants can also be used for this.
G.R.G. is installed using traditional gantry systems and, if weight is a factor, standard lifting equipment can always be used.
G.R.G. can be cut either with a handsaw, with an angle grinder with diamond or metal blades or with a jigsaw, so only standard hand tools are required for installation purposes.

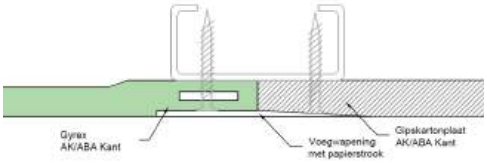
6

Assembly Instructions

1.Preparation

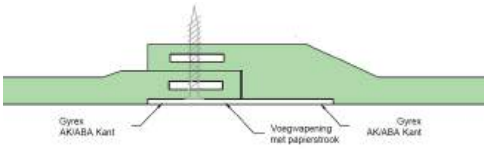
- Ensure that the underlying wall or ceiling structure is suitable for supporting the Gyrex elements.
- Check that the elements are equipped with an AK/ABA edge, which allows for attachment with drywall screws that have a drill point.

2. Installation of Individual Elements



- Place the Gyrex element against the underlying structure, with the AK/ABA edge facing forward.
- Use drywall screws with a drill point to securely fasten the element. Ensure that the screws penetrate sufficiently deep into the structure for a stable attachment.

3. Installation of Elements with Male-Female System:



- If the elements have a male-female system, ensure that the male
- Secure the elements to each other by fastening drywall screws into the overlapping AK/ABA edges.

4. Additional Instructions:

- After installation, check that all Gyrex elements are securely and correctly attached.
- Always follow the guidelines and regulations from Gyrex for optimal installation and performance of the systems.

Finishing of Joints

1. Finishing Gyrex Elements in Drywall Wall and Ceiling Systems

The strength of Gyrex lies in creating seamlessly integrated, reinforced elements in drywall walls and ceilings. This document provides the proper processing instructions to achieve a truly seamless transition with Gyrex elements in drywall walls and ceilings.

1.1. General

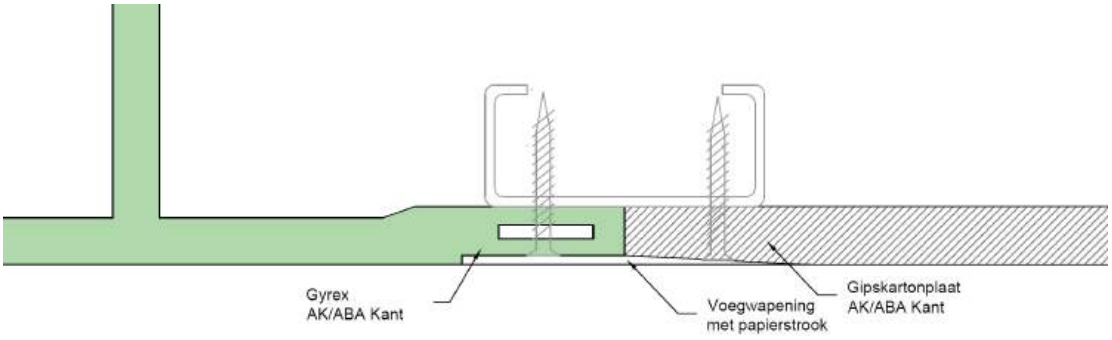
There are various types of these joint connections, each with its own method. A few general guidelines apply to all variants:

- The joint connections between Gyrex and drywall panels must always be finished with joint compound.
- These joints must also always be reinforced. Self-adhesive mesh tape is unsuitable as reinforcement in this application. Use paper joint tape instead.
- The paper tape should be embedded in the joint compound, ensuring that sufficient material is under the reinforcement tape. Ideally, the reinforcement tape lies as close as possible to the joint surface.
- It may be necessary to sand the cured and dried joint products between and after operations. It is preferable to use sanding mesh with a grit of 180.

1.2. Joint Variants

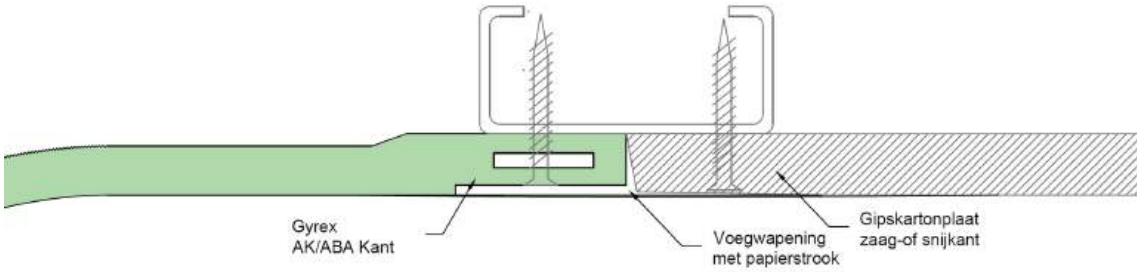
1.2.1 Gyrex Beveled Edge Against a Standard Beveled Edge (ABA/AK)

- The edges are fitted against each other.
- This joint can be directly filled with joint compound, embedding the paper tape in the wet compound.
- After drying, the joint should be finished with a standard finishing product.



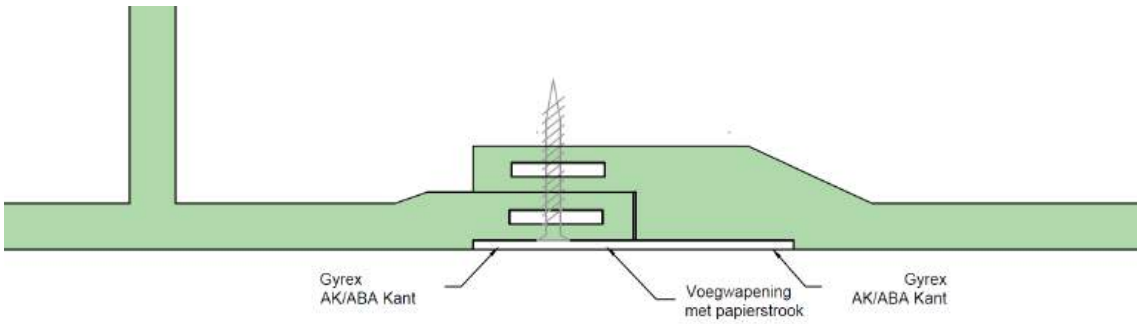
1.2.1 Gyrex Beveled Edge Against a Sawed or Cut Edge

- Straight edges, cut edges, and sawed edges should be provided with a beveled edge before installation.
- The Gyrex edge and drywall edge are fitted against each other.
- Next, these edges are filled with joint compound, and a thin layer is applied to the panel surface on both sides of the joint. The reinforcement tape is then lightly pressed into the compound with a joint knife, taking care not to push the compound away from under the tape. Following this, the joint tape is thinly covered with compound to embed it.
- After drying, the joint should be leveled as wide as possible with a finishing joint product.



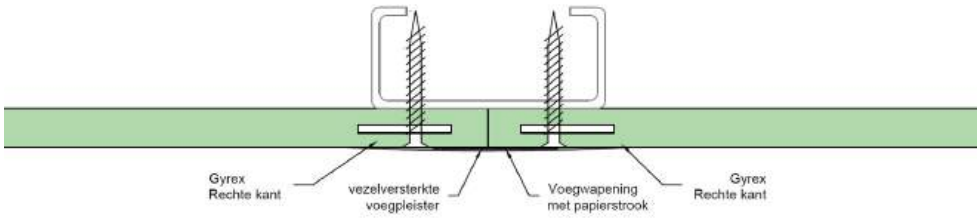
1.2.1 Gyrex Beveled Edge Against Gyrex Beveled Edge

- The Gyrex edges are fitted against each other.
- These beveled edges are filled with joint compound on both sides of the joint. The paper joint tape is then lightly pressed into the compound with a joint knife, taking care not to push the compound away from under the tape. Following this, the joint tape is thinly covered with compound to embed it.
- After drying, the joint should be leveled as wide as possible with a finishing joint product.



1.2.2 Gyrex Straight Edge Against Gyrex Straight Edge

- The Gyrex edges are fitted cold against each other. Ensure that the two edges are in the same plane.
- Before jointing (this can also be done prior to installation), the beveled edges should be primed.
- After drying, these edges are filled with fiber-reinforced joint compound, and a thin layer is also applied to the panel surface on both sides of the joint. The paper joint tape is then lightly pressed into the compound with a joint knife, taking care not to push the compound away from under the tape. Following this, the joint tape is thinly covered with compound to embed it.
- After drying, the joint should be leveled as wide as possible with a finishing compound (finishing class F2a).



GYREX.

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