

MORE FROM WOOD.

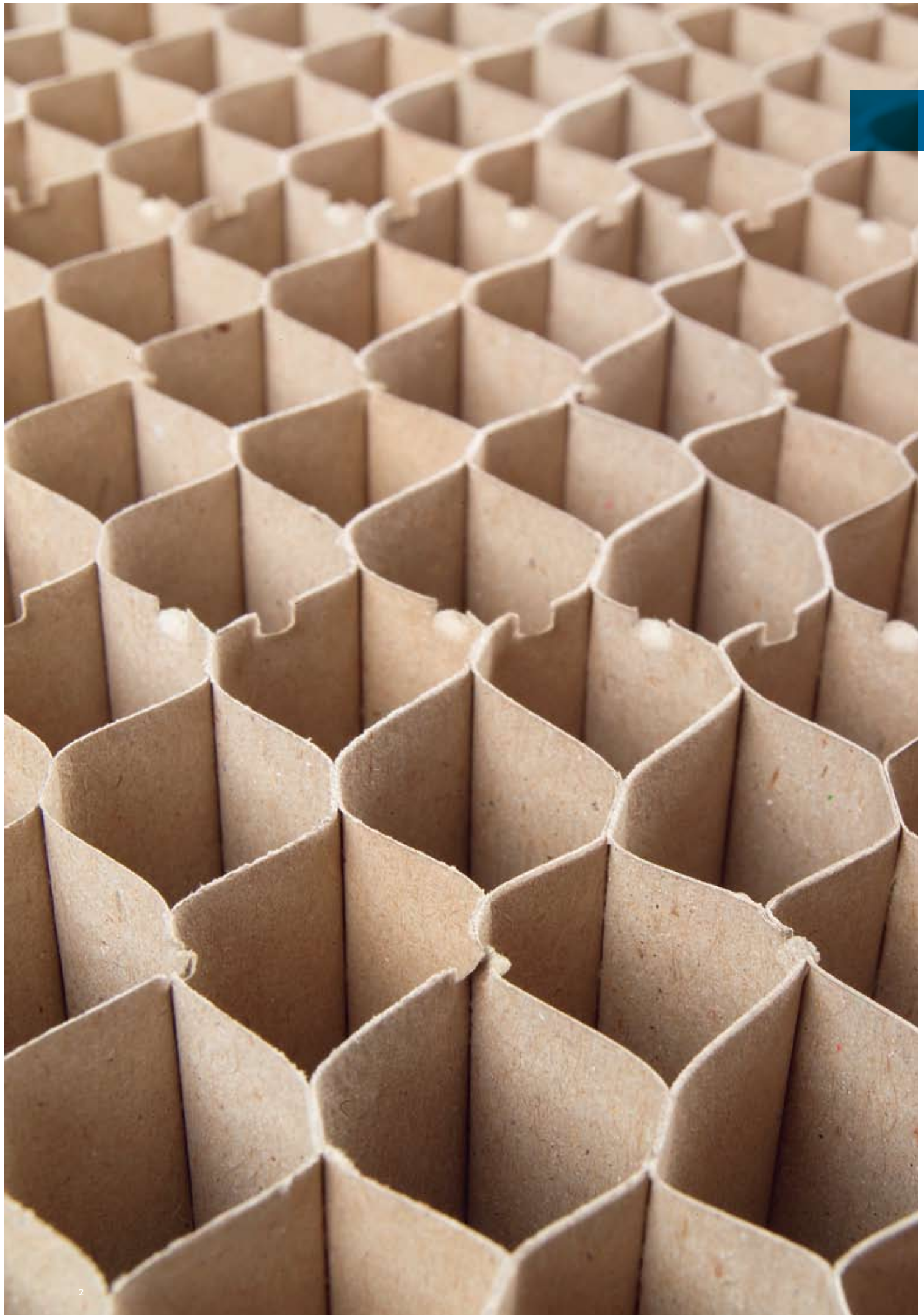


EGGER EUROLIGHT®

INDUSTRY

HOW TO START WORKING WITH
EUROLIGHT® LIGHTWEIGHT BOARDS



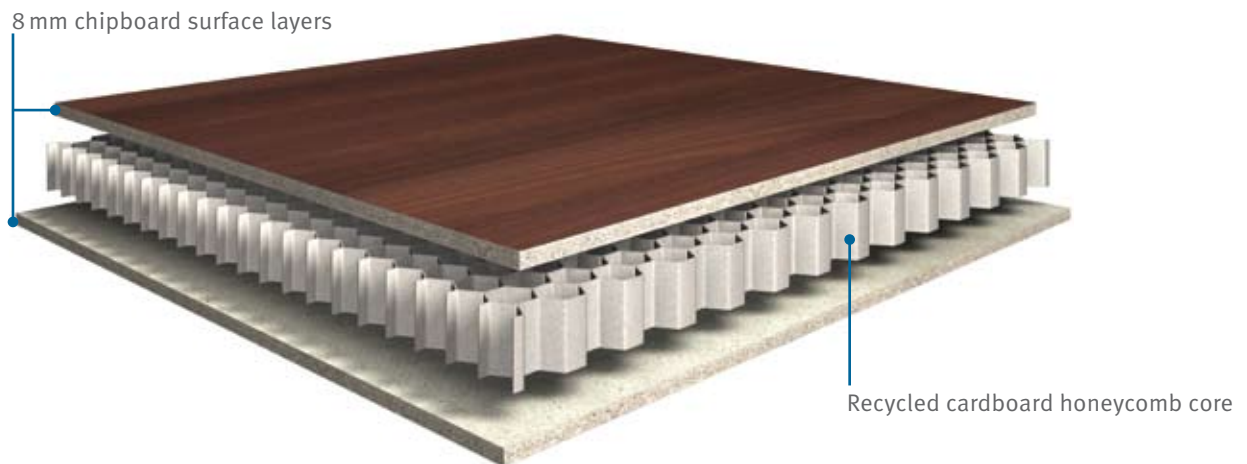


EGGER EUROLIGHT®

Current design trends demand the use of thicker materials to convey contemporary design and high quality. EGGER EUROLIGHT® meets such design requirements with a range of attractive decors and textures in a chunky thickness. To achieve this 'slab' look it is normally necessary to bond a number of materials together (e. g. MDF or MFC) to make up the required thicknesses. This is not only time consuming, but results in a very heavy component which has an impact on both the fabricator and installer. For comparison purposes, EUROLIGHT® is **50 % lighter** than the equivalent thickness of chipboard.

EUROLIGHT® is made from extremely strong 8 mm EUROSPAN® chipboard top and bottom layers, combined with a light, yet robust cardboard honeycomb core. This innovative sandwich construction reduces material use and raw material requirements, which in turn means there is a **reduction in material, transport and logistic costs** for fabricators and manufacturers. Not only that, but **environmental impact is reduced** without compromising **strength and stability**, a benefit that has implications beyond the industry. Furthermore, no special fittings are required. Available in a thickness of 38 and 50 mm, EUROLIGHT® offers exciting, new, practical and **aesthetic benefits** to manufacturers and designers alike.

This 'how to start working with EUROLIGHT®' brochure has been designed to make the transition from working with chipboard and MDF to lightweight boards as easy as possible. Included in this brochure is a range of possible application ideas to help **inspire**, as well as fittings information and supplier references to get you started. We have also included simple and straightforward technical information and processing guidelines just in case you need them. Finally we present the **new UK stock range of decors** including some of our very latest designs such as H1476 ST22 Champagne Avola and H1713 ST9 Grey Brown Ontario Walnut.



© Daval
H1713 ST9 Grey-Brown Ontario Walnut



EUROLIGHT® BENEFITS

■ HIGH VALUE APPEARANCE

Chunky furniture is in vogue. The great advantage of EUROLIGHT® is that it looks contemporary and substantial yet is both light and stable.

■ LIGHTWEIGHT

For comparison purposes EUROLIGHT® is 50 % lighter than the equivalent thickness of chipboard. This opens up a wide range of new possibilities for furniture construction.

■ EXCELLENT BENDING STRENGTH

Long, expansive shelf spans, which can be an issue with chipboard and MDF, are not a problem with EUROLIGHT® thanks to its sandwich construction.

■ ENVIRONMENTALLY FRIENDLY

More effective use of wood as well as better use of transport capacities (which are 25 % higher due to the lower weight of the boards).



© KBB
H3704 ST15 Tobacco Aida Walnut
50 mm EUROLIGHT®



H1478 ST22 Truffle Brown Avola 50 mm EUROLIGHT® in
combination with W1000 ST9 Premium White
MFC doors



W1000 ST9 Premium White 50 mm EUROLIGHT® in
combination with W1000 A1 Laminate feature wall

EUROLIGHT® AREAS OF APPLICATION

The lightweight nature of the product combined with the high bending strength means that EUROLIGHT® is perfectly suited for use in a **wide range of interior application** areas including:

- Kitchens
- Living areas
- Bedrooms
- Bathrooms
- Offices
- Shopfitting
- Exhibition stands

Within these areas EUROLIGHT® offers a wide range of possible applications including:

- End panels
- Shelving
- Table tops / desking
- Sliding doors
- Carcassing
- Worktops
- Internal doors

As we will demonstrate throughout the brochure EUROLIGHT® can be used in a number of different ways. It can easily be used as purely a **design element** in combination with MFC but also has the strength and stability to play the main role of a loadbearing **construction element**.

H3368 ST9 Natural Lancaster Oak
50 mm EUROLIGHT®

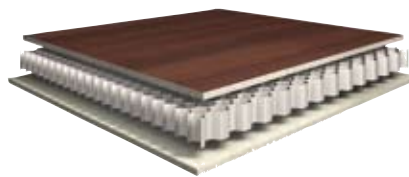


1

SIMPLE SOLUTIONS

- Cladding
- Joining EUROLIGHT® to MFC/MDF
- Joining EUROLIGHT® to EUROLIGHT®
- Internal fittings

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SIMPLE SOLUTIONS

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ADVANCED SOLUTIONS

- Joining EUROLIGHT® to EUROLIGHT® with hidden fittings
- Sliding/Folding doors
- Internal doors
- Floating shelves
- Worktops

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ADVANCED SOLUTIONS

3

PROCESSING & TECHNICAL INFORMATION

- Edging
- Laminating/veneering
- Moisture resistancy
- Lighting
- Bending strength
- Lacquering/painting

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PROCESSING & TECHNICAL INFORMATION

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PRODUCT & DECOR AVAILABILITY

- EUROLIGHT® stock range

Pages 48 – 59

PRODUCT & DECOR AVAILABILITY

1

H1277 ST9 Light Lakeland Acacia
50 mm EUROLIGHT®

SIMPLE SOLUTIONS




SIMPLE SOLUTIONS

The most difficult thing about working with new materials is knowing where to start, which is why we have put together a number of straightforward application ideas to make working with EUROLIGHT® as simple as possible.

The following applications can all be achieved using **today's machinery** and **standard fitting solutions** and they do not require frames to be inserted.

- Cladding
- Joining EUROLIGHT® to MFC/MDF
- Joining EUROLIGHT® to EUROLIGHT®
- Internal fittings

From our experience, EUROLIGHT® lightweight boards with 8 mm surface layers (38 mm and 50 mm thick) **can be edged directly**. 2 mm EGGER ABS Edging and EGGER Accent Edging (ABS) is recommended and normal edge banding machines can be used.



Kitchen adapted from image kindly supplied by Omega to show EUROLIGHT® Raw bonded with EGGER Laminate. H3081 ST22 Hacienda Black combined with H3078 ST22 Hacienda White MFC doors.

CLADDING

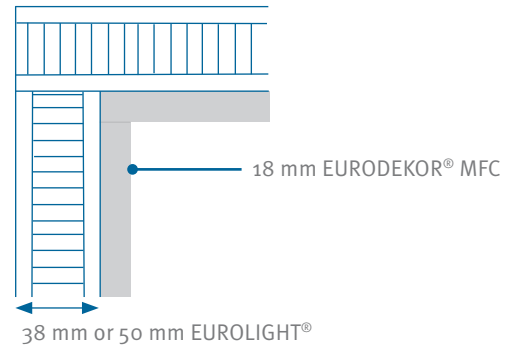
The easiest way to integrate EUROLIGHT® into your furniture ranges is to **use the material to clad on to an existing piece of furniture**. Many companies use this method when starting out with the product as you can achieve the chunky, added value look, but still use the same established method of carcass construction.

CLADDING

TYPES OF JOINT

BUTT JOINT

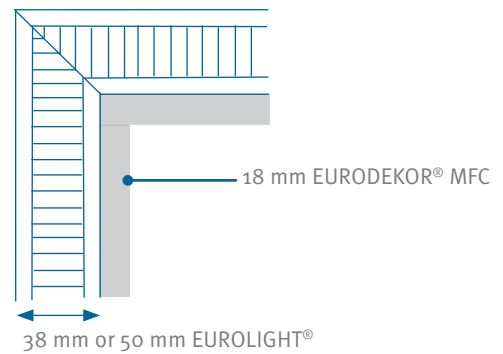
The most common way of joining EUROLIGHT®, due to speed and simplicity, is to use a butt joint. Manufacturers and fabricators can join the lightweight boards (with their 8 mm surface layers) directly using commercial wood adhesive, as the carcass provides the necessary support and stability. To secure the EUROLIGHT® boards in place simply fix standard chipboard screws from the inside of the carcass.



MITRE JOINT

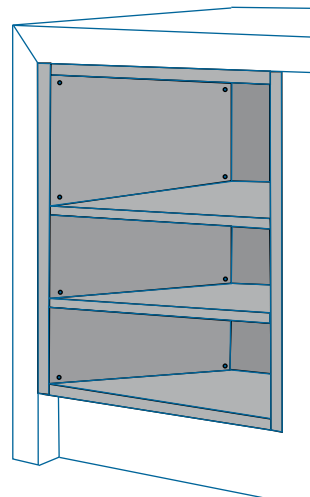
In this particular application mitre joints can also be made by using the same method as above.

N.B. For applications such as breakfast bars or benches which don't have the support of a carcass underneath, we recommend the use of frames. Chipboard frames can be inserted and then cut and glued into a mitre afterwards. The advantage of this method is that it provides even greater stability through gluing the entire surface. See page 22 for more information.



FIXINGS

Standard chipboard screws



ADVANTAGES

- Use the same standardised method of carcass construction and the same fittings as normal
- No need to retest the product as the structure and integrity of the carcass remains the same
- Add additional value to your furniture with a chunky, modern look

Joining 50 mm EUROLIGHT® to MFC/MDF
H3704 ST15 Tobacco Aida Walnut



JOINING EUROLIGHT® TO MFC/MDF

Another easy way to start using EUROLIGHT® is to [combine the product with EURODEKOR® MFC](#), for example as furniture tops. To create the chunky look many companies at present either bond 2 boards together or use 25 mm chipboard or MDF, which instantly makes the furniture very heavy and difficult to move.

By switching various elements to 38 mm or 50 mm EUROLIGHT® boards, the furniture not only becomes much lighter but a thicker and ultimately higher value appearance becomes possible.

JOINING EUROLIGHT® TO MFC/MDF

POTENTIAL WEIGHT SAVINGS

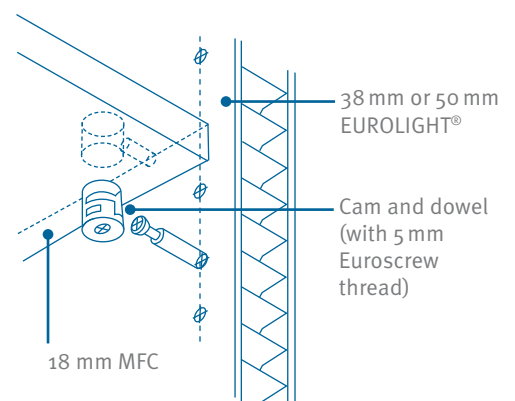
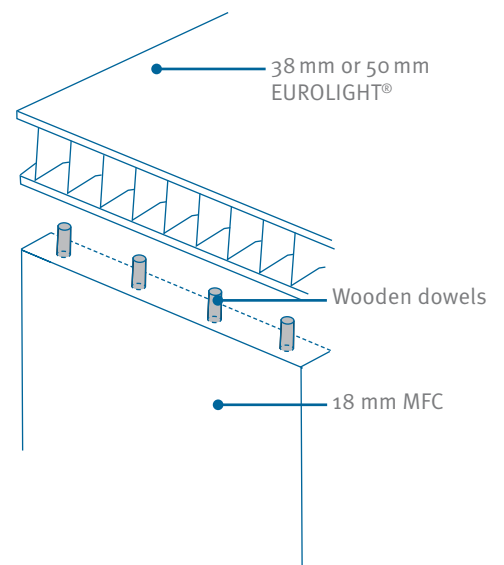
By using 38 mm EUROLIGHT® instead of bonding 2 × 18 mm MFC boards = 12 kg/m²

By using 50 mm EUROLIGHT® instead of bonding 2 × 25 mm MFC boards = 19 kg/m²

MATCHING PRODUCTS

In this application the benefits of EGGER's decor match system become clear. EURODEKOR® MFC and EUROLIGHT® are available in the same decors to allow manufacturers to use both materials in the same piece of furniture and not compromise on the aesthetic qualities.

Because most of the decors in our EUROLIGHT® range (see page 51–59) are also available in MFC, MDF, Laminate and Edging it means that you can easily combine them.



FIXINGS

Hidden

Standard wooden dowels



Standard wooden biscuits



Visible

Cam & Dowel (with 5 mm Euroscrew thread)



ADVANTAGES

- Give your furniture a quick and easy makeover, whilst also reducing the weight
- No need to bond two boards together to create this look, saving you fabrication time and costs
- EUROLIGHT® is available in the same decors as the MFC, so there is no compromise on design
- Use basic existing fittings and the same method of construction standards

© Daval
H3911 ST9 Natural Tauern Beech



JOINING EUROLIGHT® TO EUROLIGHT®

Carcassing is also easy to produce. Existing fittings can be used to effortlessly create high value, modern furniture.

JOINING EUROLIGHT® TO EUROLIGHT®

STANDARD SOLUTIONS

There are also a range of industry-wide simple, low-cost solutions specifically developed for lightweight boards. For hidden fittings solutions when joining EUROLIGHT® to EUROLIGHT® please see pages 28–31.

FIXINGS

Hettich –VB 36 HT

Hettich –VB 36 HT 38 (for 38 mm boards)

Black: 906 638 9 Grey: 906 686 4
Brown: 907 823 7 White: 907 823 6

Hettich –VB 36 HT 50 (for 50 mm boards)

Black: 906 639 1 Grey: 906 686 7
Brown: 907 824 6 White: 907 824 5

Hettich

Cover cap for 36 HT 38 and 36 HT 50
Nickel plated: 908 130 2

Hettich

DU321 connecting bolt: 902 184 7



Häfele Rafix 20 HC

Häfele Rafix 20 HC (38 mm & 50 mm)

Brown: 263 18 102 White: 263 18 702
Black: 263 18 302 Nickel plated: 263 18 602

Häfele

M20 connecting bolt: 263 20 131



Häfele TAB 20/HC

Häfele TAB 20/32 HC (for 38 mm boards)

Black: 263 95 332
Nickel plated: 263 95 732

Häfele TAB 20/40 HC (for 50 mm boards)

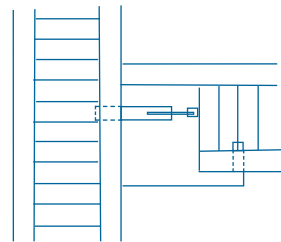
Black: 263 95 335
Nickel plated: 263 95 735



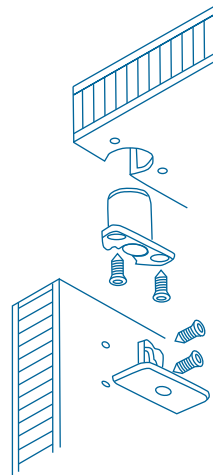
MORE INFORMATION...



Please call Hettich on
T +44 161 872 9552 or visit
www.hettich.com/uk
Alternatively email Häfele at
info@hafele.co.uk or visit
www.hafele.co.uk



Hettich VB 36 HT Solution



Häfele TAB 20 HC Solution

ADVANTAGES



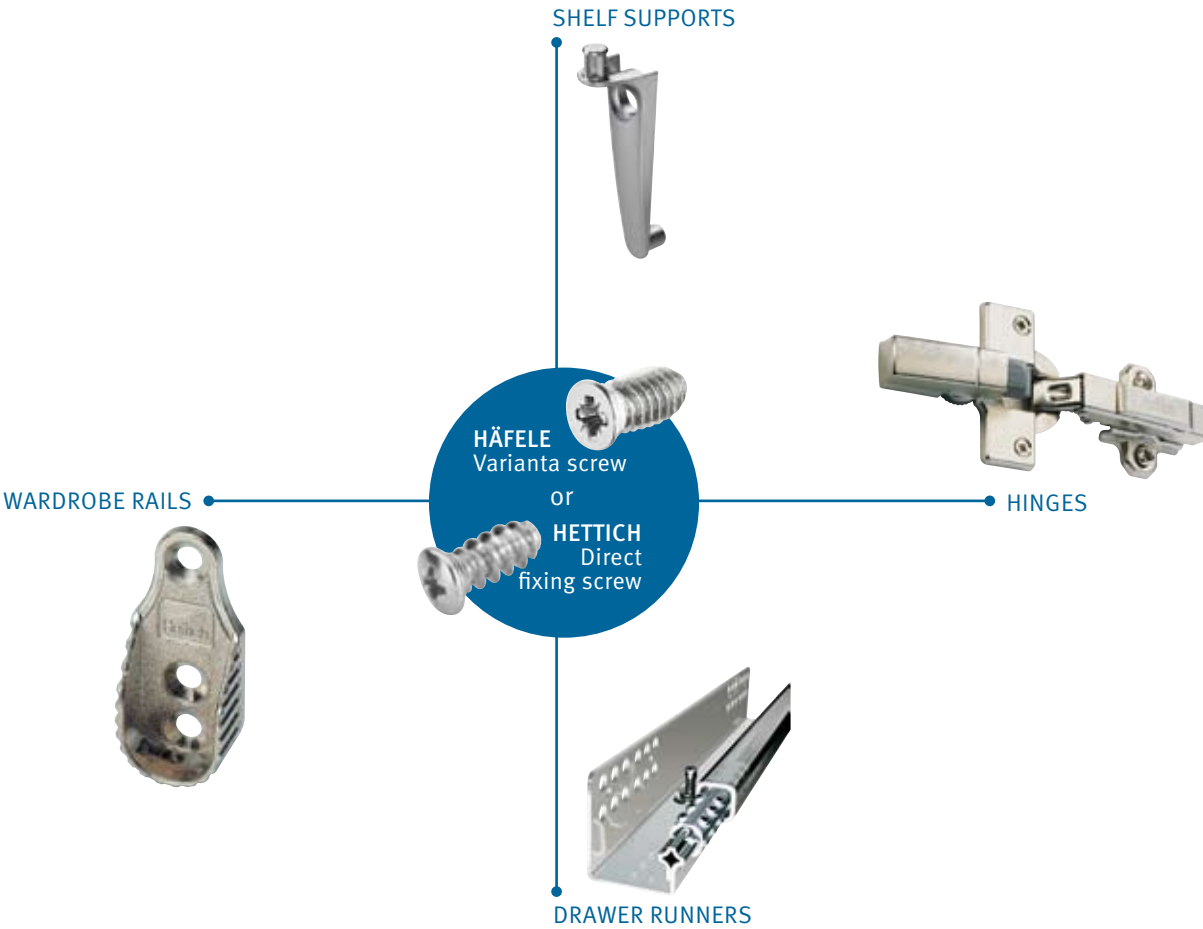
- Fittings readily available in the UK from Hettich and Häfele
- Standard carcass connection solution
- Ideal for furniture which needs to be mobile, for example in the caravan industry or within schools
- Add additional value to your furniture with a chunky, modern look



INTERNAL FITTINGS

The 8 mm surface layers of EUROLIGHT® means that **no special fittings are required** and your current hinges, drawer runners, shelf supports etc. can still be used. To ensure the best screw holding possible we recommend the use of Euroscrews, such as Häfele's Varianta screw or Hettich's Direct fixing screw.

INTERNAL FITTINGS



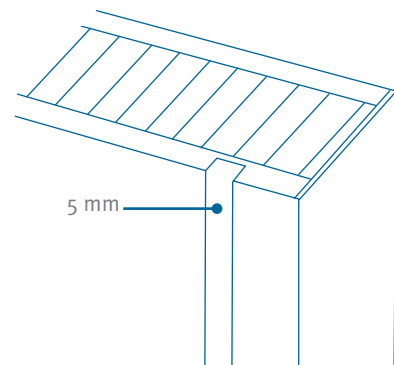
MORE INFORMATION...



Please call Hettich on
T +44 161 872 9552 or visit
www.hettich.com/uk
Alternatively email Häfele at
info@hafele.co.uk or visit
www.hafele.co.uk

BACK PANELS

We recommend routing a 5 mm deep groove into the 8 mm surface layer for back panels. Gluing the back panels in place is not required.



F489 ST2 Quartz Inox
50 mm EUROLIGHT®



ADVANCED SOLUTIONS

By inserting frames, wooden blocks or innovative bonding dowels/inserts into your EUROLIGHT® boards, the surface layers become joined together (mechanically or chemically) to create a homogenous panel which opens up a host of new application possibilities.

- Joining EUROLIGHT® to EUROLIGHT® with hidden fittings
- Sliding doors
- Internal doors
- Floating shelves
- Worktops



INSERTING FRAMES

Inserting frames along the edges of the board provides further benefits. These include **additional screw holding properties** and **even better bending strength results**, which opens up new application possibilities.

Depending on the application, 2 sided or 4 sided frames can be inserted.

We recommend that 1.5 mm of each 8 mm surface layer is milled out for 38 mm EUROLIGHT® boards and 2 mm is milled out for 50 mm EUROLIGHT® boards (using standard milling machines) in order to remove the honeycomb core and any residual glue from the surface layers. This provides a smooth clean surface for gluing the frame in place and also ensures that the frame fits securely against the 2 mm recess. The use of standard **PVAC glue** is recommended. For added flexibility, frames can also be inserted after the boards have been cut to size.

Suitable frame materials are wood based materials such as chipboard and MDF, or knot free, dried solid wood.

DIFFERENT SIZED FRAMES PROVIDE A VARIETY OF DIFFERENT SOLUTIONS

8 mm frames can be inserted to provide a base upon which to apply edge banding material which is thinner than 2 mm, e.g. Laminate edging or 0.8 mm ABS edging (2 mm ABS edging for example does not require a frame, see page 56 for details).
 ↳ With both 38 mm & 50 mm EUROLIGHT® boards insert 8 mm frame vertically.

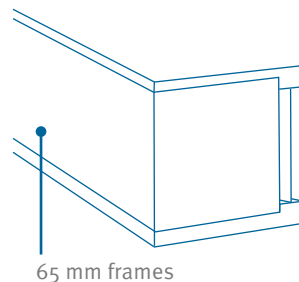
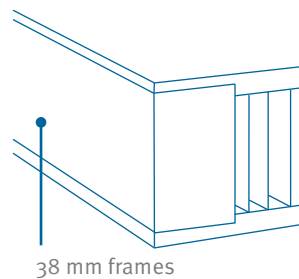
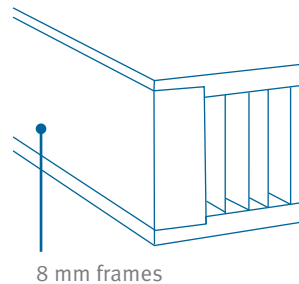
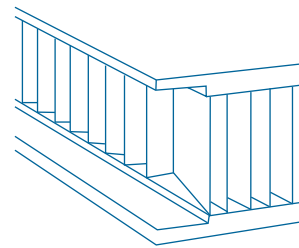
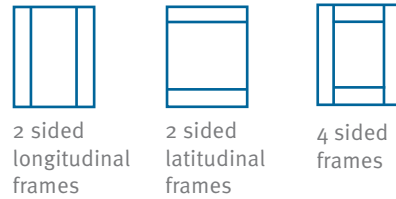
38 mm frames are perfect for postforming, inserting grooves and attaching load bearing fittings.
 ↳ For 38 mm EUROLIGHT® boards, insert a 25 mm × 38 mm frame horizontally.
 ↳ For 50 mm EUROLIGHT® boards insert a 38 mm × 38 mm frame horizontally.

65 mm frames ensure that every possible type of fitting, including door handles and hinges can be used.
 ↳ For 38 mm EUROLIGHT® boards, insert a 25 mm × 65 mm frame horizontally.
 ↳ For 50 mm EUROLIGHT® boards insert a 38 mm × 65 mm frame horizontally.

EGGER can also supply EUROLIGHT® boards with chipboard frames already inserted (either framed, 2 sided or 4 sided).

Please contact your EGGER account manager for minimum order quantities, lead times and prices.

Framing options





Milling out the surface layer of the EUROLIGHT®

ADVANCED SOLUTIONS

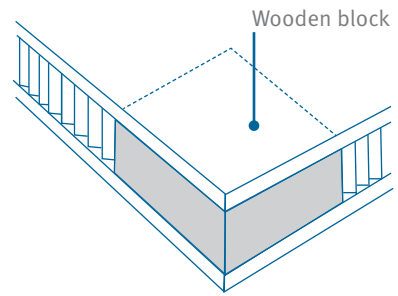
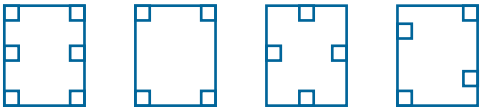


EUROLIGHT® Raw with 38 mm frame inserted

INSERTING WOODEN BLOCKS

Wooden blocks (chipboard, MDF or solid wood) can be strategically placed around the edges of the board to provide additional stability for specific fittings such as table legs. They can be inserted quickly and with ease on site using the same method as inserting frames (see page 22). As with frames, we recommend the use of PVAC glue.

Wooden block framing options





© Spaceoasis
W1000 ST9 Premium White
50 mm EUROLIGHT® decor

ADVANCED SOLUTIONS



© Spaceoasis
W1000 ST9 Premium White
50 mm EUROLIGHT® decor

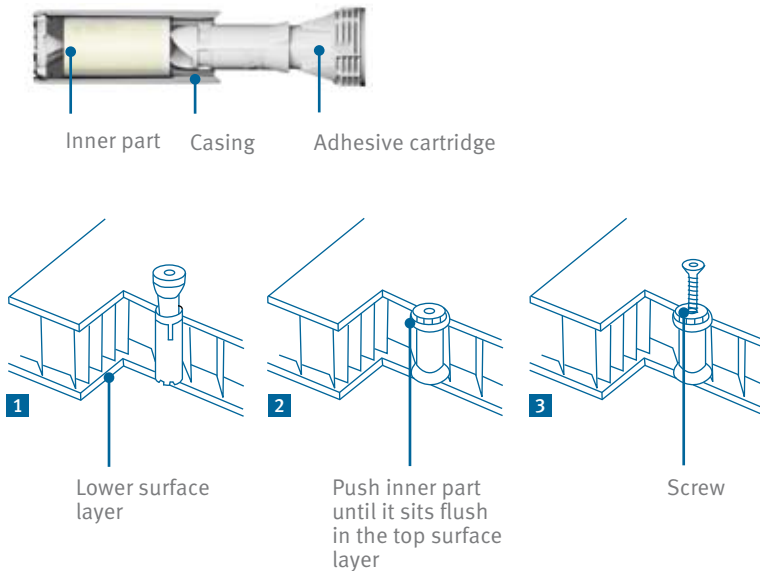
INSERTING BONDING DOWELS

Bonding dowels offer an alternative to inserting frames and allow you to use exactly the same fittings as you use today. Whilst frames can only be inserted around the edges, bonding dowels can be inserted anywhere in the surface of the board.

HÄFELE - AEROFIX 100

This adhesive insert connects both surface layers by means of the integrated adhesive.

The Aerofix 100 is a bonding dowel containing a glue-capsule, which breaks open and evenly distributes glue on the upper and lower inner layers of lightweight panels. They are easy to use and can be processed either manually or by automatic machines. The Aerofix 100 adhesive insert bridges the gap (mechanically and chemically) between the two 8 mm MFC layers of the lightweight panel.



Instructions

- 1** Drill 10 mm diameter hole into top surface in required position. Use a drilling depth that ensures that the top surface and core are removed as far as the lower surface layer.
- 2** Push Aerofix 100 bonding dowel into drill hole until it mechanically engages. This ensures that screws and bolts can be screwed into the adhesive insert immediately after installation. The bonding dowel should not be subjected to the full mechanical load immediately after installation.
- 3** The chemical adhesion process takes place when the insert is pressed in. The single-component PUR adhesive distributes itself between the upper and lower layers and is fully cured within 16 hours. Once the adhesive is cured the insert can be subjected to the maximum load.

Item numbers for Aerofix 100

Aerofix for 38 mm boards - 039.70.384

Aerofix for 50 mm boards - 039.70.504

MORE INFORMATION...



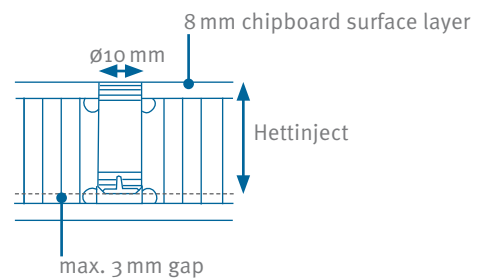
Please email Häfele at info@hafele.co.uk or visit www.hafele.co.uk

HETTICH - HETTINJECT

Every Hettinject bonding dowel guides the glue to the upper and lower surface layers via flow channels. This produces a three-dimensional, highly stable structure which connects the surface layers. The result is a solution capable of outstanding screw pull out results of between 750 N - 1250 N, up to twice as good as conventional fittings used in chipboard.

In terms of gluing, a variety of glue types can be used and the cycle times are short, as little glue is required. Glue can be measured individually and changed per dowel depending on the application (4 g of glue per dowel is recommended, but 9 g will result in the highest possible pull out strength). The curing time can also be selected individually, depending on the glue used.

Always ensure that there is a 1-2 mm space below the dowel so that the glue can bond to the lower surface layer (maximum 3 mm gap).



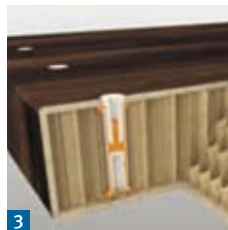
MANUAL PROCESSING



Instructions

- 1 Hettinject test cases can be ordered from Hettich.
- 2 Drill a hole into the upper surface layer of the EUROLIGHT® board.
- 3 Insert the bonding dowel.
- 4 Glue is injected with a compressed air gun. The tip seals the dowel from above and ensures a clear screw slot.
- 5 The glue bonds the dowel to both surface layers across a large area.
- 6 Standard fittings can be mounted when the glue has cured.

FULLY AUTOMATIC PROCESSING



- 1 Drill a hole into the EUROLIGHT® board, chips can remain in the board.
- 2 Fit the bonding dowel and glue the dowel simultaneously.
- 3 The glue bonds the dowel to both surface layers across a large area.

Item numbers for Hettinject

For use with 4 mm diameter screws
 Hettinject 27 (for 38 mm boards) – 906 640 6
 Hettinject 41 (for 50 mm boards) – 908 349 2
 For use with 6.3 mm diameter screws
 Hettinject 41 (for 50 mm boards) – 908 349 2



MORE INFORMATION...



Please call Hettich on
 T +44 161 872 9552 or visit
www.hettich.com/uk



50 mm EUROLIGHT® U104 ST2 Alabaster in combination with U717 ST9 Dakar back panels and H1334 ST9 Light Ferrara Oak MFC doors

JOINING EUROLIGHT® TO EUROLIGHT® WITH HIDDEN FITTINGS

Although carcass connections can be made using the solutions on page 14–17, there are situations where a hidden fitting is required, for example with [mid/high end furniture](#) or [open shelving units](#).

For these applications we recommend the use of frames or bonding dowels strategically inserted in to the EUROLIGHT® board where required.

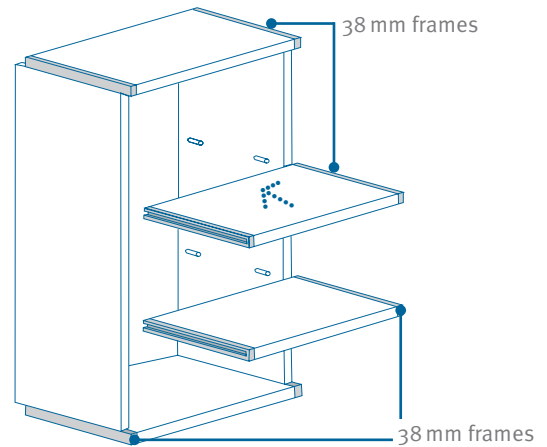
JOINING EUROLIGHT® TO EUROLIGHT® WITH HIDDEN FITTINGS

WITH FRAMES

By inserting a 38 mm deep chipboard or MDF frame into 2 sides of the EUROLIGHT® board it is possible to create furniture with hidden fittings as you would do today using biscuits or dowels. Nehl have also developed a solution which requires a 12.5 mm deep groove to be inserted into the 38 mm frame.

The fitting has 2 components, one half is fitted inside the groove and the other half attached to the side of the carcass. To attach, simply slide and click in place. Alternatively standard wooden dowels or biscuits could also be used.

As outlined on page 19, hinges, drawer runners and back panels can all be fitted as standard, directly into the 8mm surface layers.



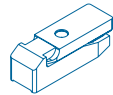
FIXINGS

Nehl

Nehl - hidden fitting solution

Upper element: 320038

Base element: 320039



Standard

Standard wooden biscuits

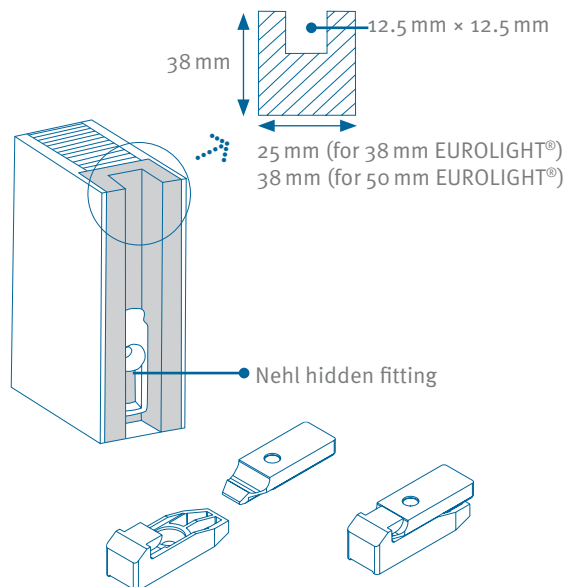


Standard wooden dowel



MORE INFORMATION...

Please email Nehl at info@nehl-beschlaege.de or visit www.nehl-beschlaege.de



ADVANTAGES

- Easy to manufacture using standard processing and standard machinery
- 8 mm surface layers ensure that any additional fittings such as drawer runners are secured with ease

© Hettich
50 mm EUROLIGHT® Painting grade, laquered



JOINING EUROLIGHT® TO EUROLIGHT® WITH HIDDEN FITTINGS

WITH BONDING INSERT

Invisible fittings are now possible with Hettich's VB insert which can be used to connect 38 mm or 50 mm lightweight boards with 8 mm surface layers.

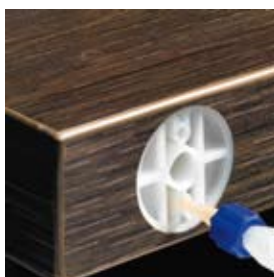
A simple drilled hole is all that is needed for its use. The glue for the VB insert is applied at two points from which it flows through special glue channels to both surface layers, securing the fitting in place.

Ideal distribution of forces ensures that the finished product can withstand heavy loads. The product is designed to work in combination with the tried and tested Twister dowel.

MORE INFORMATION...



Please call Hettich on
T +44 161 872 9552 or visit
www.hettich.com/uk



FIXINGS

Hettich

Hettinject VB insert

Hettinject VB insert 38 - 909 798 9

Hettinject VB insert 50 - 909 799 1

Hettich Twister screw-in dowel

DU 232 T - galvanized 904 786 1

DU 232 T - self-colour 904 764 4



ADVANTAGES



- Quick and simple solution for hidden fittings – perfect for mid/high end furniture
- 8 mm surface layers ensure that any additional fittings such as drawer runners can be fixed without problems



SLIDING/FOLDING DOORS

Sliding/Folding doors are very popular where space is at a premium. Designers and manufacturers use them in furniture and interior design not only to save space, but often as a design feature.

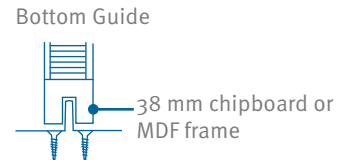
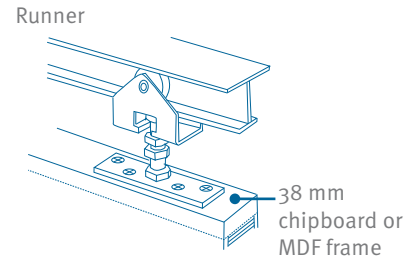
EGGER EUROLIGHT® is 50% lighter than conventional chipboard (in the equivalent thickness). **Even large partitions can be moved without excessive strength**, making structures and designs that ordinarily would not be feasible with heavier materials, possible. The 8 mm thick surface layer means that conventional fittings can be used on sliding doors.

SLIDING DOORS

A 2 sided latitudinal frame is required for the following top running sliding door solutions:



FITTING SOLUTIONS	MAX. DOOR WEIGHT	SUITABLE FOR:
Hettich Topline 1210	80 kg	38 mm & 50 mm
Hettich Topline 1230	125 kg	38 mm & 50 mm
Häfele Hawa Junior 80	80 kg	38 mm & 50 mm
Häfele Hawa Junior 120	120 kg	38 mm & 50 mm



FOLDING DOORS

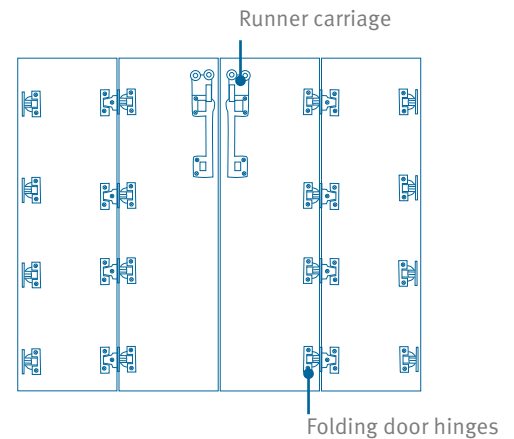
Bonding dowels such as Hettich's Hettinject or Häfele's Aerofix (see page 26–27) are required for securing the hinges and runners on for the following folding door solutions:

FITTING SOLUTIONS	MAX. DOOR WEIGHT	SUITABLE FOR:
Hettich Wingline	25 kg	38 mm only
Häfele Hawa Junior 80	60 kg	38 mm & 50 mm

MORE INFORMATION...



For a wider range of sliding/folding door solutions and advice, please call Hettich on T +44 161 872 9552 or visit www.hettich.com/uk
Alternatively email Häfele at info@hafele.co.uk or visit www.hafele.co.uk



ADVANTAGES



- Give your furniture a quick and easy makeover, whilst also reducing the weight
- Reduces the weight and potential damages during transportation and installation
- Sliding doors have a tendency to bend when manufactured using standard boards. The rigid sandwich construction of EUROLIGHT® ensures this is no longer a problem
- Less effort is needed to open the sliding doors – perfect for inclusive design

38 mm EUROLIGHT® raw bonded with EGGER door
laminate H835 ST9 Light Oak Design



INTERNAL DOORS

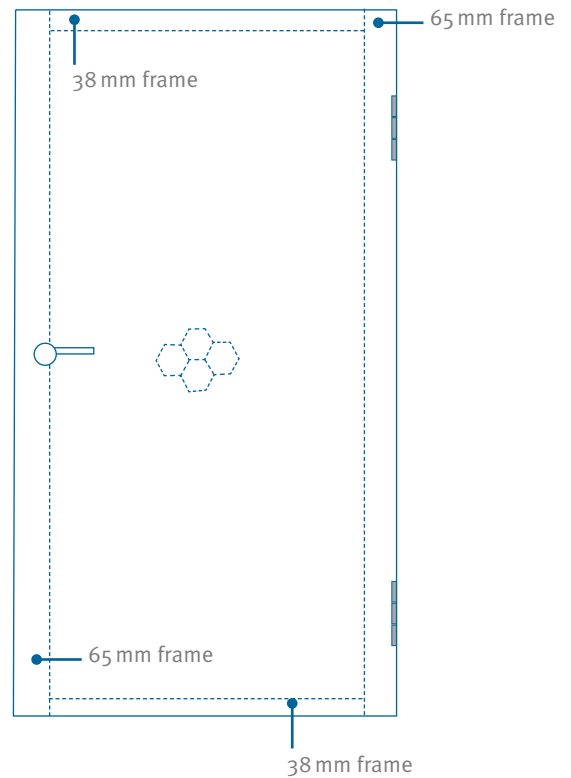
Internal doors are playing a more important design role within modern interiors. The use of EUROLIGHT® with a pre-finished melamine surface that **can combine with/complement other furniture within the room** could be ideal.

INTERNAL DOORS

WITH FRAMES

We recommend inserting 65 mm width chipboard or MDF frames along the longitudinal edges of the board to provide support for the locks and hinges. For the top and bottom of the door a 38 mm chipboard or MDF frame is recommended so that the doors can be trimmed to size on site.

EGGER can also supply EUROLIGHT® with frames already inserted subject to minimum order quantities.



ADVANCED SOLUTIONS

ZOOM® DOOR COLLECTION

Technically, doors with a melamine faced surface perform better than foiled or painted doors in terms of scratch resistance and abrasion. For projects which require an even better door we also have a stock range of laminates designed especially for internal doors which includes a number of cross grain finishes. EGGER offer raw EUROLIGHT®, which is suitable for the fabrication of laminate, see page 43 for further information.



ADVANTAGES



- Internal door colour matches to other furniture elements using different EGGER materials
- EUROLIGHT® Decor is great for internal doors and means that no laminates or veneers need to be bonded thus reducing fabrication costs

W1000 ST9 Premium White 50 mm EUROLIGHT® in combination with W1000 A1 Laminate feature wall



FLOATING SHELVES

38 mm & 50 mm load-bearing, [floating shelves with large spans](#) are now possible thanks to the rigidity and strength of EUROLIGHT®.

FLOATING SHELVES

WITH BONDING INSERTS

Nehl has developed a bonding insert, which make it possible to construct floating shelves from frameless lightweight boards. Using EUROLIGHT® not only reduces the weight of the shelf, but also increases the loading capacity and spanning distance of the shelves, making the furniture more practical for customers.

Before milling out the slots (in accordance with the fitting supplier's drilling patterns), the EUROLIGHT® boards must first be edged with 2 mm ABS edging to provide rigidity and support for the inserts.

The bonding inserts, are then set and glued in place to the back edge of the shelf. Special ducts have been incorporated into both systems to allow the glue to adhere to the top and bottom surface layers. Standard metal shelf brackets can be used and fit together with the inserts to automatically lock the shelf in place. Both solutions can be secured to all types of walls including brick, concrete and plaster.



FIXINGS

Nehl

Nehl
Wall shelf support - 100097

Nehl
Steel pin for wall shelf support - 100098



MORE INFORMATION...



Please email Nehl at
info@nehl-beschlaege.de
or visit www.nehl-beschlaege.de

ADVANTAGES



- Excellent bending strength allows for longer spans
- Thicker shelving now much easier to install and fabricate, reducing time and costs
- Shelves can be colour matched to other furniture elements using different EGGER materials



© Crestwood
F276 ST9 Arkosa Sand EUROLIGHT® Worktop
in combination with H3090 ST22 Driftwood
MFC Doors

WORKTOPS

EUROLIGHT® Worktops are a significant introduction for the kitchen industry and have been developed following increasing demand for thicker work surfaces.

These worktops are lightweight (41% lighter than 38 mm chipboard worktops) and due to their weight saving are easier to handle, transport and install. The rigid honeycomb core and sandwich construction means that there is no compromise in stability or quality.

WORKTOPS

JOINING EUROLIGHT® WORKTOPS

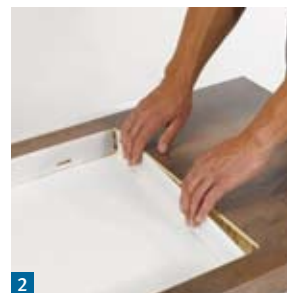
To make the cut outs for EGGER 'Type M' worktop connectors easier, EGGER have a specifically developed template. After routing out the underside of the worktop and clearing the excess honeycomb core, the cutter depth should be set so that it cuts a maximum of 4 mm into the top chipboard surface.

Router in a straight line along the front edge of the cut out to provide the necessary space for the connector to take hold. The access slots of the connector bolts should then be cut into the longitudinal frame of the female cut.

HOB & SINK CUT OUTS

- 1 Due to the honeycomb core cut outs are quick, simple and extend the tooling life.
- 2 The cut outs should be sealed using EUROLIGHT® T-Profile to prevent against both heat and moisture ingress. For a durable fixing we recommend using EGGER Universal Glue, which should be applied on the top and bottom grooves of the EUROLIGHT® T-Profile.
- 3 As most mounting brackets supplied with sinks are generally designed for 38mm worktops, EGGER have developed a sink installation adapter to specifically work with thicker worktops. These adapters can be used with most sink brands and are assembled by simply inserting them into the existing mounting brackets.

For a more indepth guide to using EUROLIGHT® Worktops please contact us for our EUROLIGHT® Worktops technical brochure.



FIXINGS

EGGER

EUROLIGHT® Worktop Connectors Type M

Simple and effective worktop connector with a high tensile strength due to bolt system



EUROLIGHT® T-profile - Specifically developed for sealing the core. Easy to work with & suitable for both hob & sink cut-outs.



EUROLIGHT® sink installation adapter

Simple adapter to extend the length of current sink clips to use with 50 & 60 mm worktops. Works with the majority of current sink brands.



ADVANTAGES



- Offer your customers high value, chunky looking worktops
- Lighter than existing worktops which should result in fewer damages/health and safety issues
- Improved transport utilisation



PROCESSING & TECHNICAL INFORMATION

With new products come new questions, which is why we've put together the following processing and technical information.

If you still have further technical questions call our EUROLIGHT® technical hotline on 01434 613360.

- Edging
- Laminating/veneering
- Moisture resistancy
- Lighting
- Bending strength
- Lacquering/painting



HOW TO EDGE EUROLIGHT® BOARDS

DIRECTLY ONTO 8 MM SURFACE LAYERS

From our experience, EUROLIGHT® lightweight boards with 8 mm surface layers (38 mm and 50 mm thick) can be edged directly. 2 mm EGGER ABS Edging and EGGER Accent Edging (ABS) is recommended and normal edge banding machines can be used.

If, however, the edging results are unsatisfactory, the following 2 steps (recommended by HOMAG) can improve the result when edging using continuous flow systems:

- Reduce contact pressure of trimming unit from **2 kg/cm²** to **1.5 kg/cm²**.
- Reduce the amount of overhanging edging along the length of the board as much as possible.

Edging can also be applied manually by using PVAC adhesive and then using masking tape to keep the edging in position until the adhesive cures. Edges can then be trimmed and finished by hand.



HOW TO LAMINATE & VENEER EUROLIGHT® BOARDS

EUROLIGHT® Raw is ideal for laminating and veneering. We hold almost 100 laminates offering you a wide selection of different decors.



FRAMELESS

Maximum pressure → **1.5 kg/cm²**

(If the pressure exceeds 1.5 kg/cm² we recommend the use of shims to prevent the boards being crushed in the press).

Maximum press time → **3 minutes**

Maximum press temperature → **90°C max temperature**

(with EGGER Laminate : 70°C).

FRAMED

Maximum press temperature → **80°C max temperature**

(with EGGER Laminate : 70°C).



WHAT ABOUT MOISTURE RESISTANCE?

SUITABLE FOR KITCHENS & BATHROOMS

- Standard EUROLIGHT® boards can be used in washrooms and areas with high humidity as long as all exposed edges are sealed.
- Melamine faced boards have high moisture resistance.
- Laminate surfaces have additional moisture resistance.
- 2 mm ABS edging with PU gluing system is recommended.



CAN I INCLUDE LIGHTS IN THE HONEYCOMB CORE?

INNOVATIVE LIGHTING IDEA

Spotlights or lighting strips can be integrated into the EUROLIGHT® core offering new design possibilities. LED lighting is recommended but essentially any type of lighting which operates at below 80°C can be used.

Any cable management issues are solved as the wiring can be routed directly through the honeycomb core where it is effectively invisible.



LED lighting can easily be integrated into the honeycomb core

WHAT IS THE BENDING STRENGTH OF EUROLIGHT®?

INTERNAL TEST RESULTS

- Tested internally in partnership with a local university
- Test load 150 kg/m²

BOARD SIZE	THICKNESS	UNLOADED	DEFLECTION AFTER 5 MIN	DEFLECTION AFTER 7 DAYS	DEFLECTION AFTER 14 DAYS
1000 mm × 350 mm	38 mm	0.04	1.88 mm	2.28 mm	2.45 mm
1000 mm × 600 mm	38 mm	0.00	1.67 mm	1.99 mm	2.15 mm
1000 mm × 350 mm	50 mm	0.16	1.11 mm	1.35 mm	1.44 mm
1000 mm × 600 mm	50 mm	0.25	1.13 mm	1.41 mm	1.47 mm


DEFLECTION STANDARDS

- Permanent load in accordance with DIN 68874-1
- Test load 150 kg/m²
- Board size 1025 mm × 400 mm

Deflection results after 28 days

38 mm boards → ≤ 7.0 mm

50 mm boards → ≤ 3.0 mm



EUROLIGHT® has excellent bending strength properties

CAN I LACQUER / PAINT EUROLIGHT® BOARDS?

EUROLIGHT® PAINTING GRADE

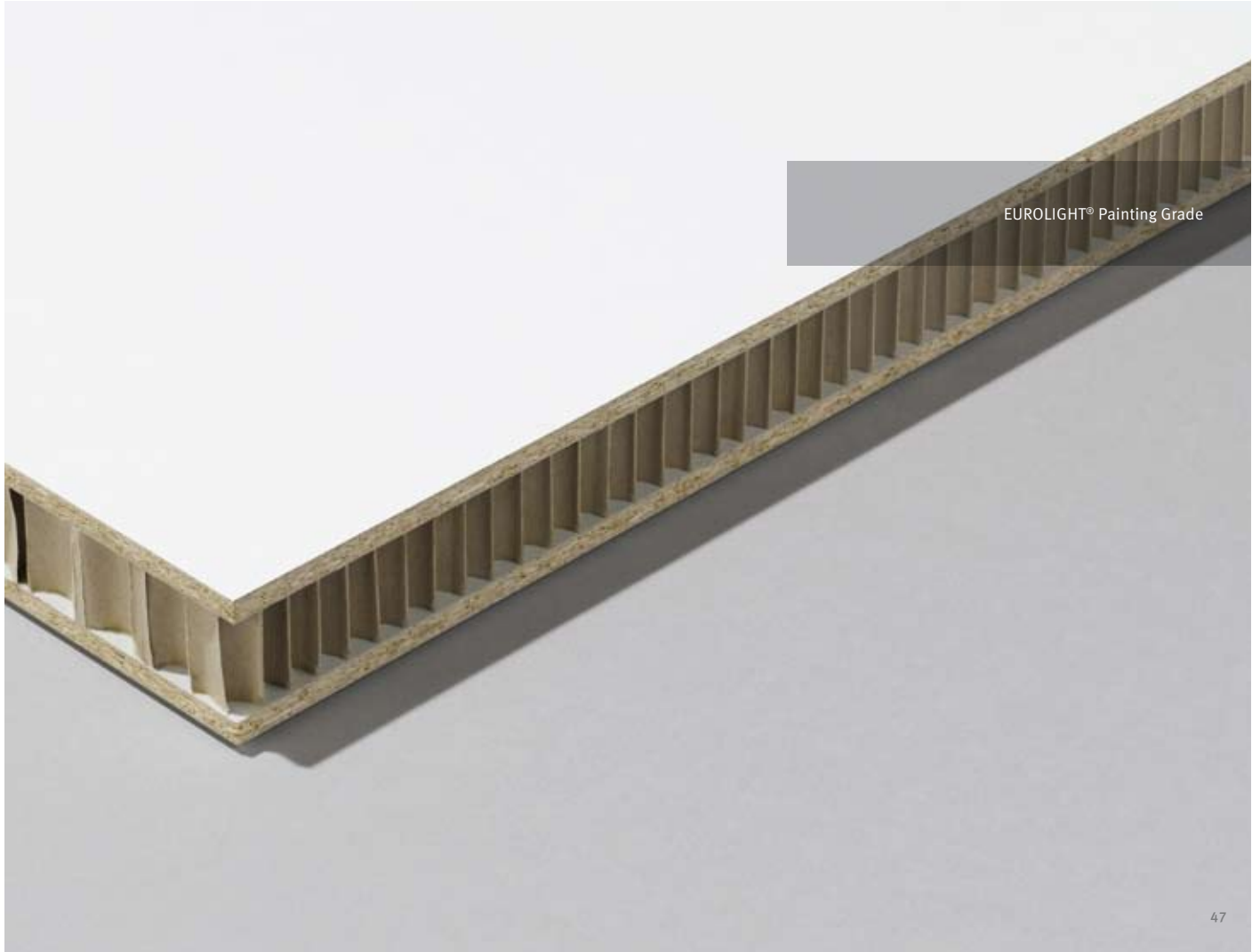
EGGER can also supply both 38 mm and 50 mm EUROLIGHT® boards with a painting grade finish. This offers you an infinite choice of colours and is perfect for projects which require specific corporate colours or a specific RAL, Pantone or NCS references.

We recommend the following types of lacquer:

- DD
- PUR
- Acrylic
- Water based

Edging suggested:

- 2 mm ABS edging – (W1000 ST9 or U104 ST2). Sanded down and then lacquered/painted.



4

PRODUCT & DECOR AVAILABILITY



PRODUCT & DECOR AVAILABILITY

EUROLIGHT® AVAILABILITY

EUROLIGHT® DECOR

Decorative, lightweight honeycomb panels (2800 × 2070 mm) with a **melamine surface finish**, available in a thicknesses of 50 mm. All decors within the EUROLIGHT® DECOR range are also available as matching Melamine Faced Chipboard, Melamine Faced MDF and ABS Edging.

EUROLIGHT® RAW

For bonding of sheet laminate or veneer to give a broader design choice.

EUROLIGHT® PAINTING GRADE

Allows you to **paint/lacquer the boards** in any colour you wish.



UK EUROLIGHT® STOCK RANGE

Our new EUROLIGHT® decor range brings our innovative 50 mm lightweight boards together with our latest decors and textures. High gloss EUROLIGHT® and deep textured ST22 EUROLIGHT® are now available, allowing you to create stunning, added value furniture.

EUROLIGHT® RANGE			EUROLIGHT® DECOR	EGGER ABS EDGING		MATCHING PRODUCTS	
			2800 × 2070 × 50 mm	54 mm Straight Grain	54 mm Cross Grain	EURODEKOR® MFC 2800 × 2070 × 18 mm	EGGER Laminate 3050 × 1300 × 0.8 mm
NEW	F489	ST2	Quartz Inox	x	x	x	x
	U104	ST2	Alabaster	x	x	x	x
NEW	H1277	ST9	Light Lakeland Acacia	x	x	x	x
	H1334	ST9	Light Ferrara Oak	x	x	x	x
NEW	H1476	ST22	Champagne Avola	x	x	x	x
NEW	H1478	ST22	Truffle Brown Avola	x	x	x	x
NEW	H1615	ST9	Romana Cherry	x	x	x	x
NEW	H1713	ST9	Grey Brown Ontario Walnut	x	x	x	x
NEW	H3031	ST9	Dark Cordoba Olive	x	x	x	x
NEW	H3070	ST22	Natural Urbano	x	x	x	x
NEW	H3078	ST22	Hacienda White	x	x	x	x
NEW	H3081	ST22	Hacienda Black	x	x	x	x
NEW	H3090	ST22	Driftwood	x	x	x	x
NEW	H3368	ST9	Natural Lancaster Oak	x	x	x	x
	H3704	ST15	Tobacco Aida Walnut	x	x	x	x
NEW	H3911	ST9	Natural Tauern Beech	x	x	x	x
NEW	W1000	ST9	Premium White	x	x	x	x
NEW	W1000	ST30	Premium White	x	x	x	x

EUROLIGHT® RANGE	BOARD DIMENSIONS	38 mm	50 mm
EUROLIGHT® Raw	2800 × 2070 mm	x	x
EUROLIGHT® Painting Grade	2800 × 2070 mm	x	x

- x Available from UK stock
- x Available to order subject to MOQ's

NEW

W1000 ST9
Premium White

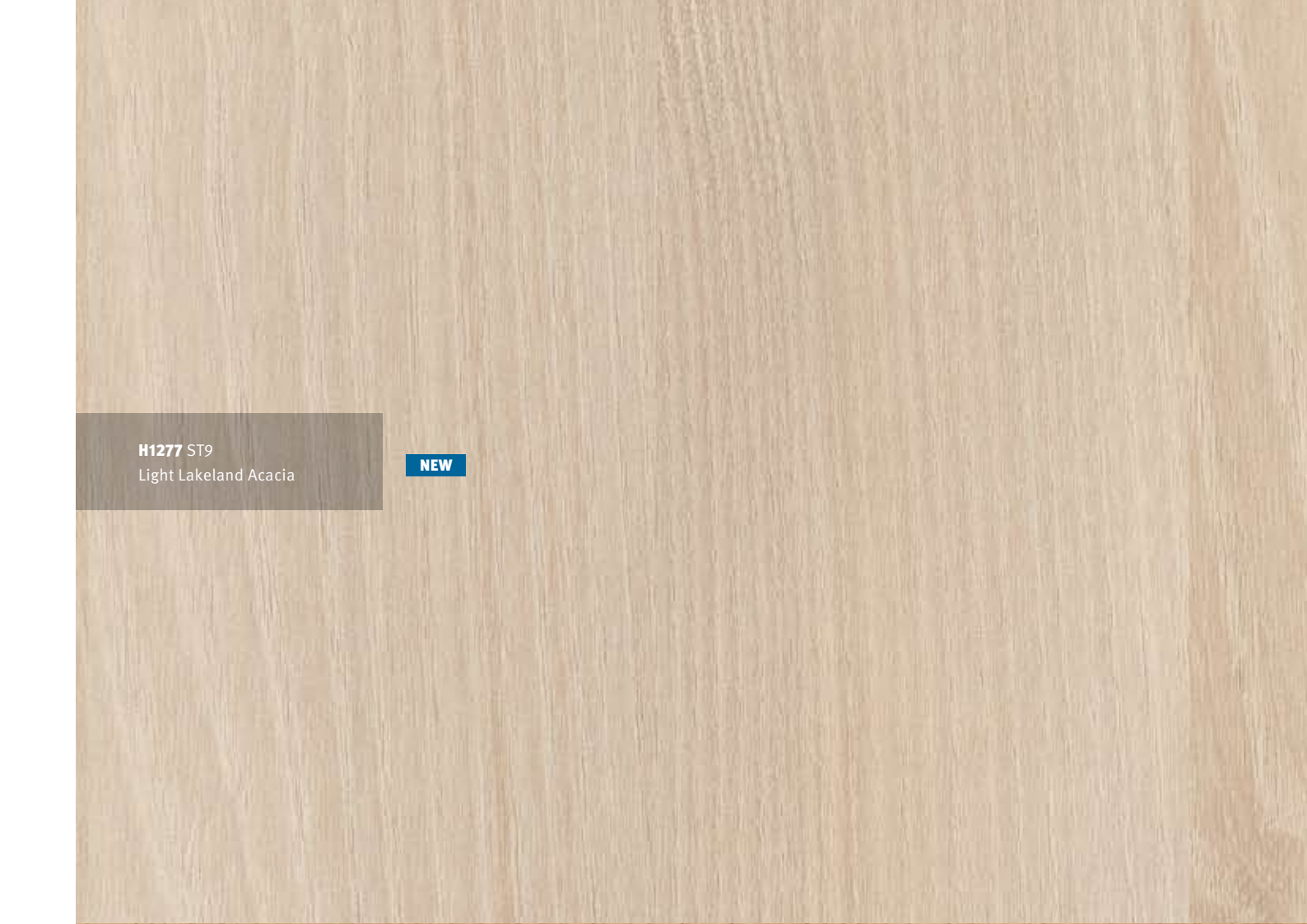
NEW

W1000 ST30
Premium White

U104 ST2
Alabaster

NEW

F489 ST2
Quartz Inox



H1277 ST9
Light Lakeland Acacia

NEW



H1334 ST9
Light Ferrara Oak

NEW

H1615 ST9
Romana Cherry

NEW

H3911 ST9
Natural Tauern Beech

H1713 ST9
Grey Brown Ontario Walnut

NEW

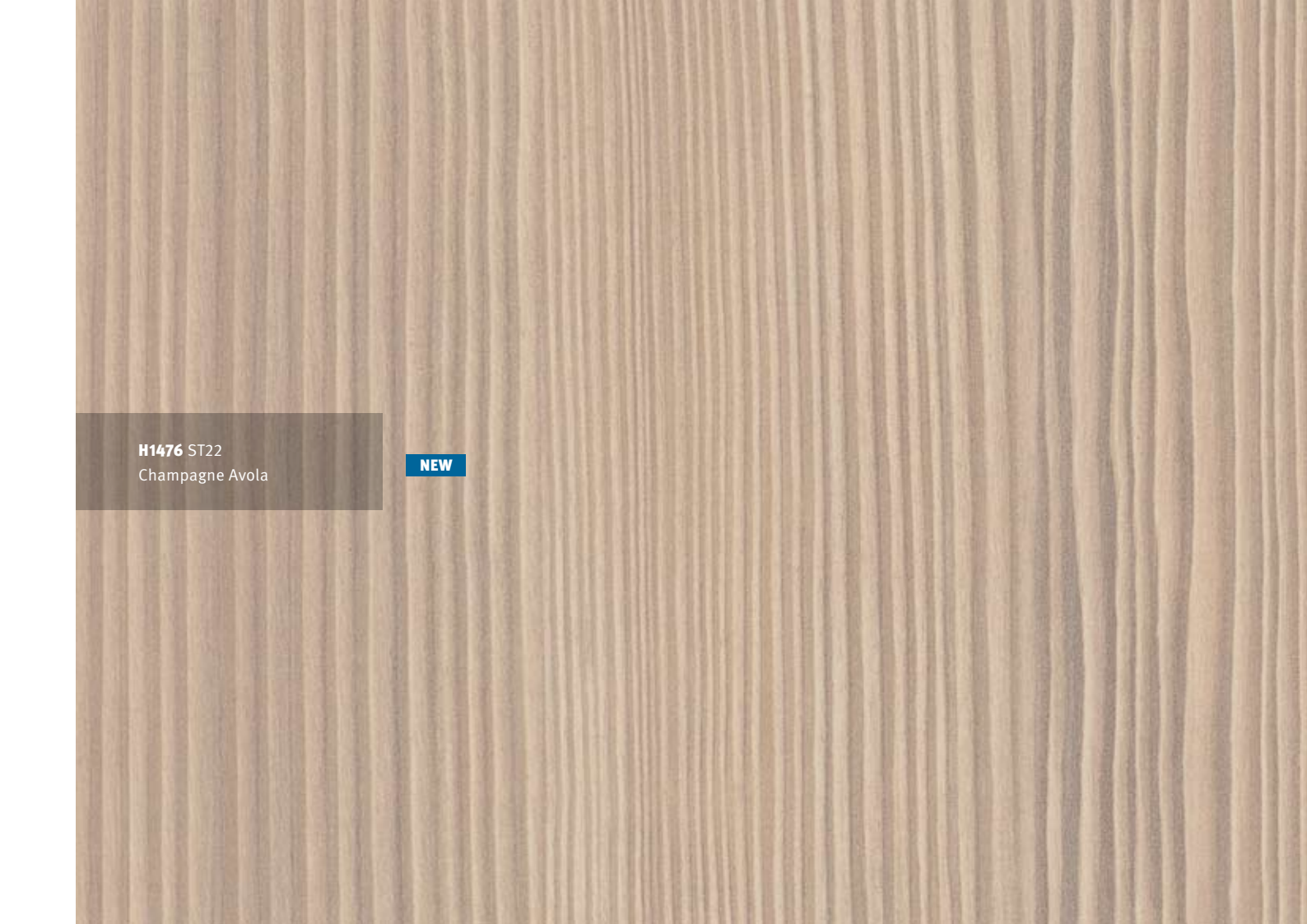


NEW

H3368 ST9
Natural Lancaster Oak

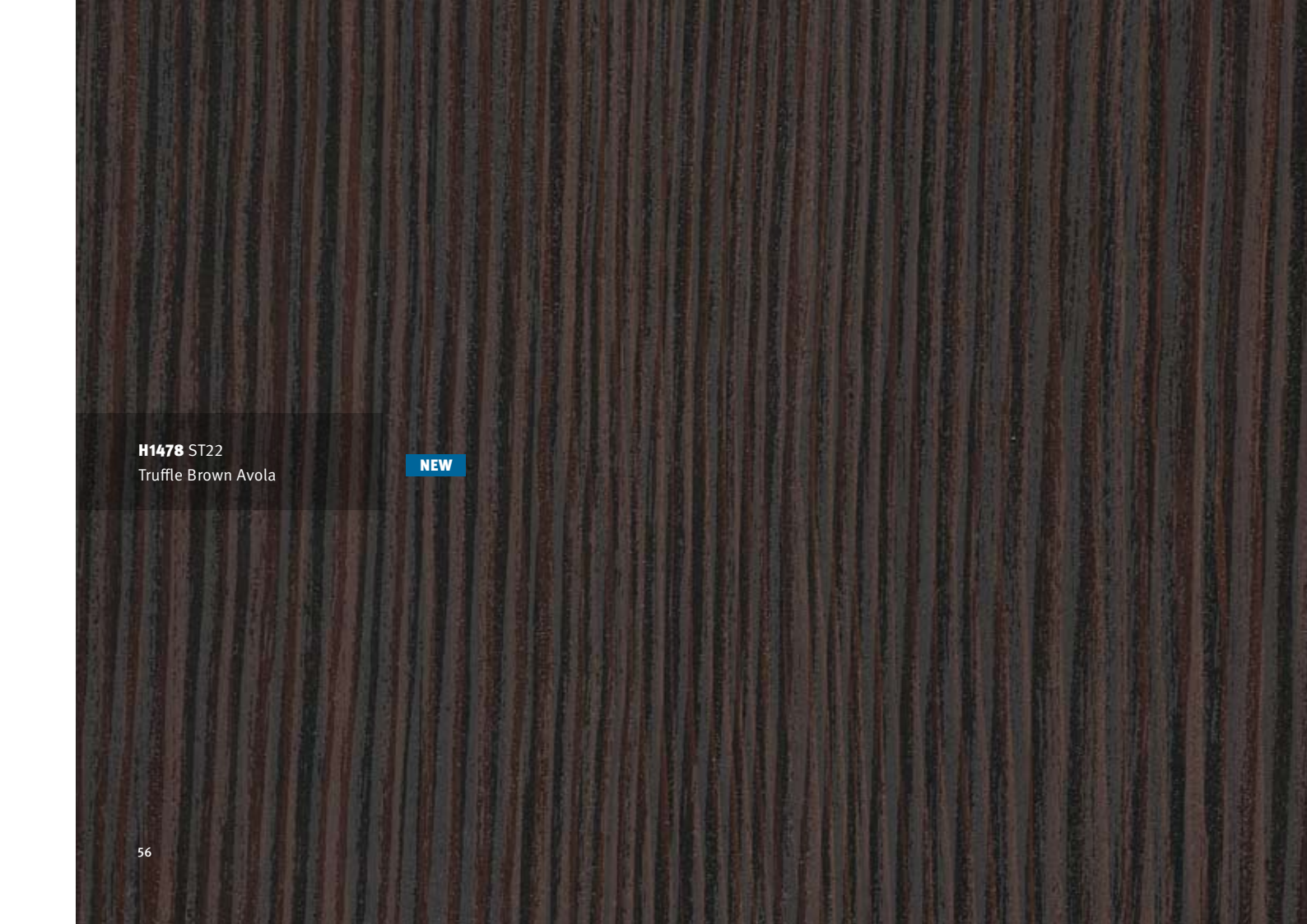


H3704 ST15
Tobacco Aida Walnut



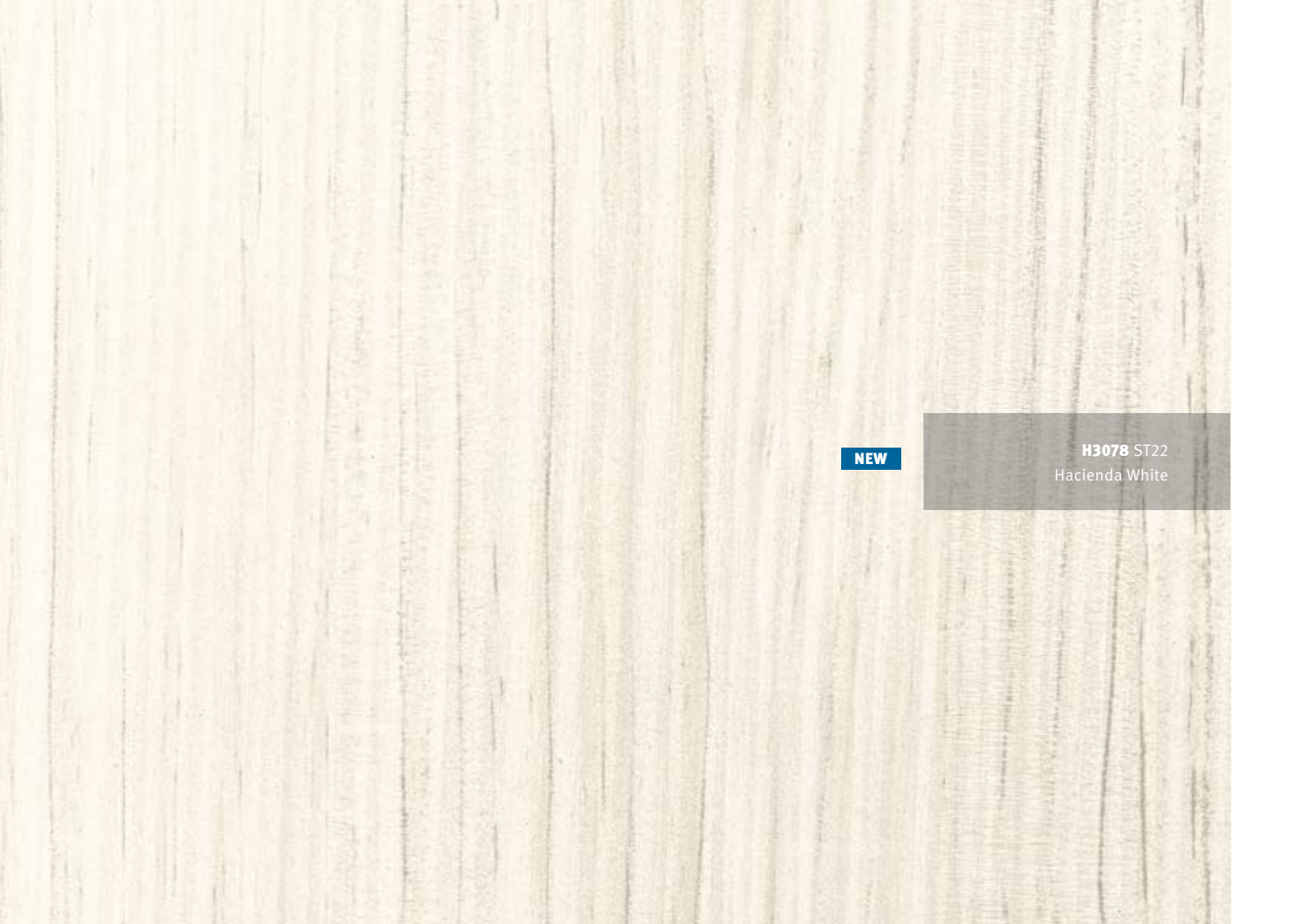
H1476 ST22
Champagne Avola

NEW



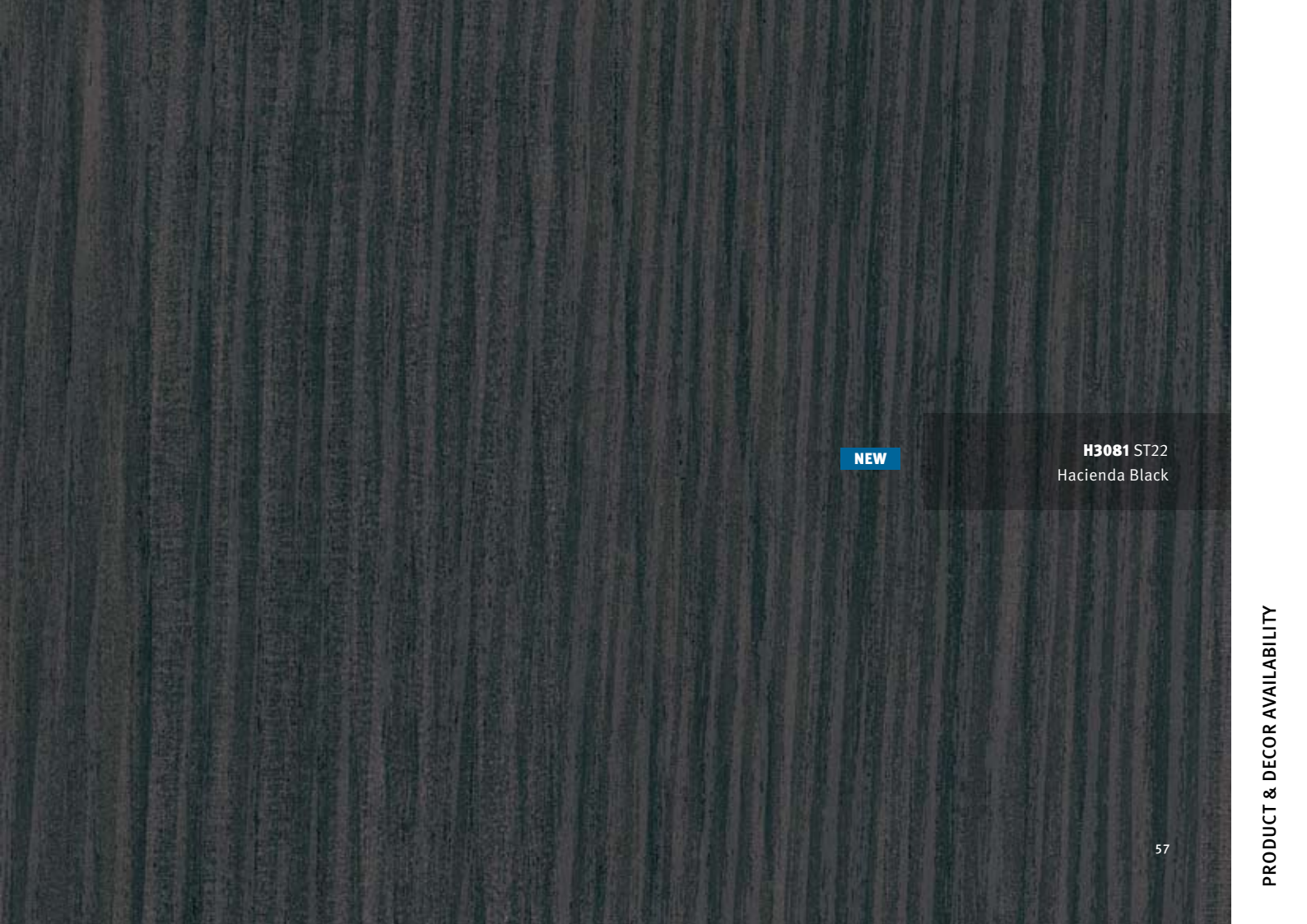
H1478 ST22
Truffle Brown Avola

NEW



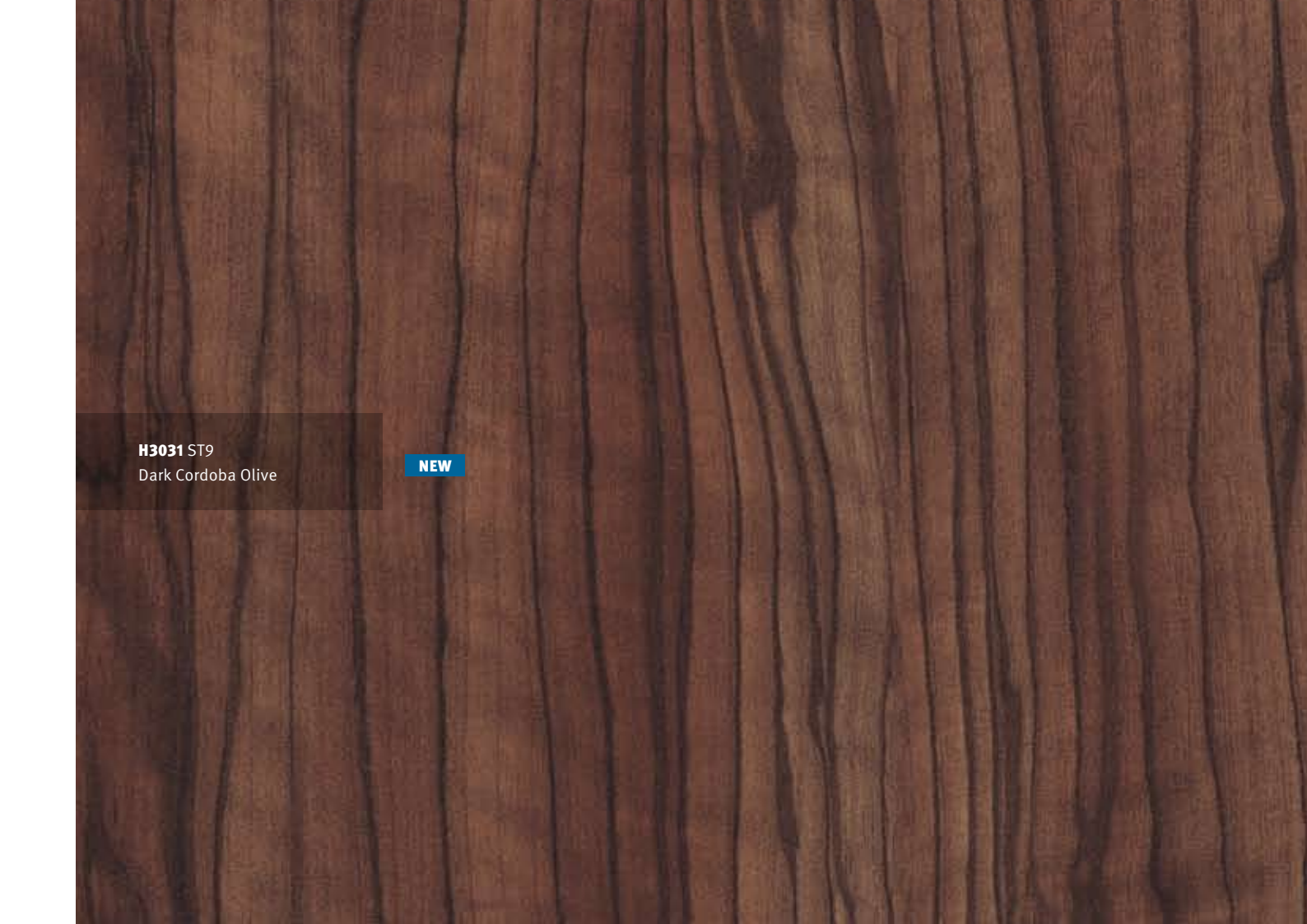
NEW

H3078 ST22
Hacienda White



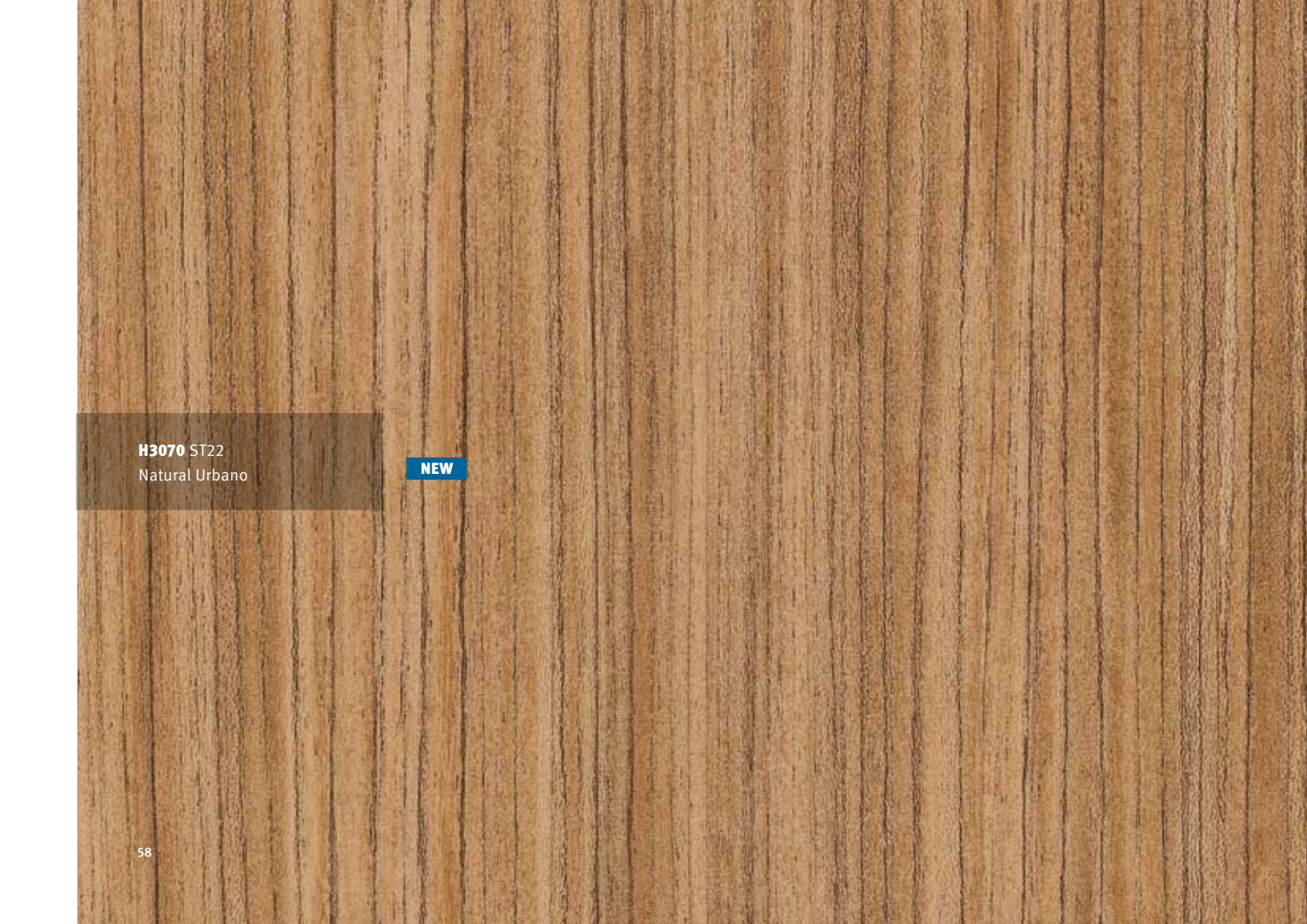
NEW

H3081 ST22
Hacienda Black



H3031 ST9
Dark Cordoba Olive

NEW



H3070 ST22
Natural Urbano

NEW

NEW

H3090 ST22
Driftwood

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