

**Innovative bonding solutions  
for the appliance industry.**



- 01 **Refrigerators**
- 02 **Washer/dryers**
- 03 **Ovens**
- 04 **Dishwashers**
- 05 **Cooker top/hobs**
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# Introduction

3M helps appliance manufacturers to build household appliances that are durable, quiet, energy efficient, stylish and more cost effective. Our advanced bonding solutions are used throughout the industry to reduce dryer noise and vibration, bond glasses in oven doors, stabilise refrigerator coils, bond touch panels and inlay displays, secure HVAC insulation, and more.

For assembly, attachment, identification, noise reduction and protection applications, we offer solutions to meet stringent appliance performance requirements.

If you're a design engineer, a 3M Converter Partner can help improve the appearance, manufacturing process and performance of your appliances with customised 3M adhesive bonding tape solutions. Our Converter Partners help take your ideas from concept to production. You can improve your appliance production process with limitless design possibilities and get effective results with the help of a 3M Converter.



# 01 Refrigerators



## 01 Refrigerators

- ▶ **Touch panel display**
- ▶ Vacuum insulation
- ▶ Decorative trim
- ▶ Bracket bonding
- ▶ Hole covering
- ▶ Handle assembly
- ▶ Glass door bonding

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Refrigerators have become much more than simply boxes to preserve food. They are the centerpieces of the modern kitchen with optionality to use them as message board or entertainment center. That's why designers are always looking for new ways to make them even more indispensable to consumers. 3M bonding innovations can help.



## Touch panel display

Versatile bonding solutions for many substrates and thicknesses that maintain sealing and high strength.

Suitable products:

- ▶ 3M™ Thin Bonding Tapes
- ▶ 3M™ VHB™ Tapes



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## Vacuum insulation

High initial adhesion together with easy handling and application.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes [↗](#)
  - ▶ 3M™ VHB™ Tapes [↗](#)



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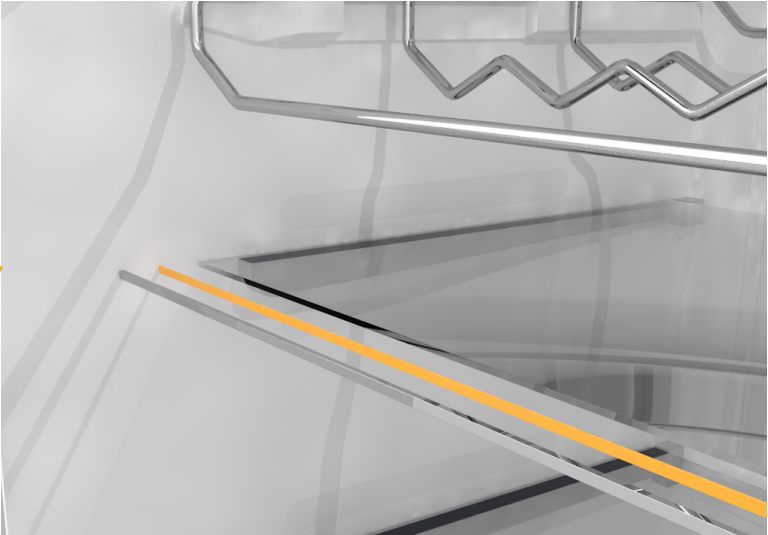
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## Decorative trim

High adhesion to a range of substrates as well as providing a long term bond.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes 
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives 



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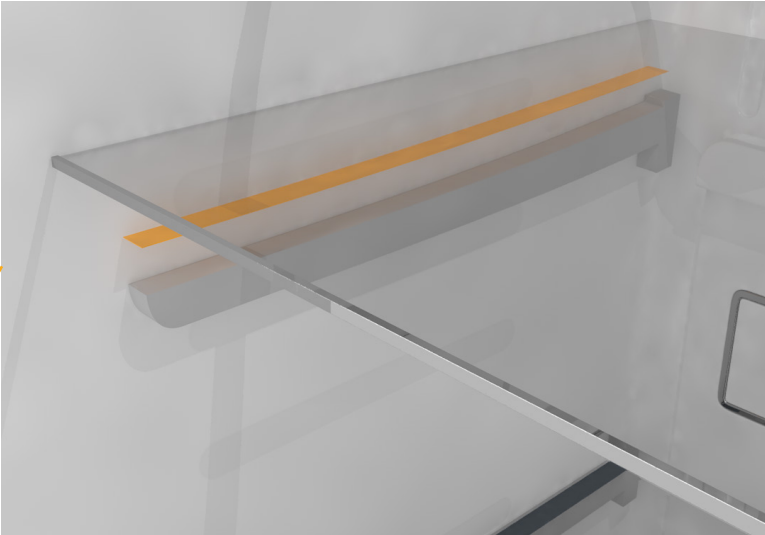
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## Bracket bonding

Features high shear strength and good low temperature performance.

- Suitable products:
- ▶ 3M™ VHB™ Tapes
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives





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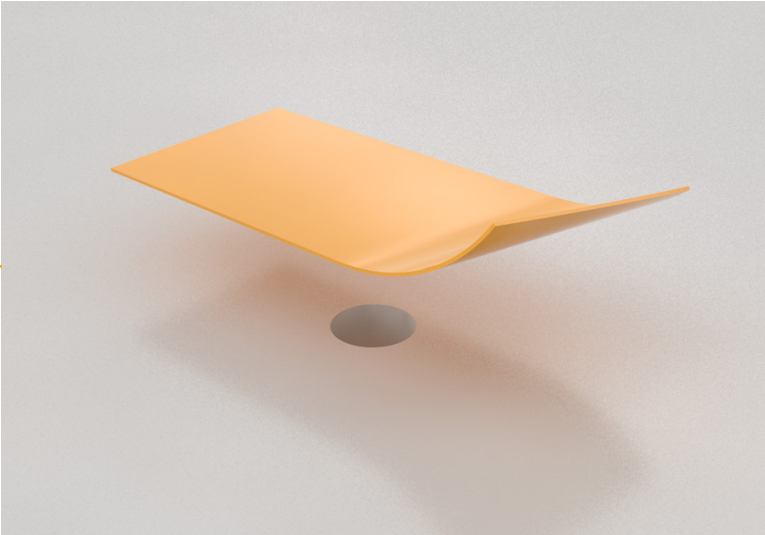
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## Hole covering

High air/gas permeability and holds strong to a wide variety of surfaces.  
Good burst strength and solid barrier for minimal voids and less clean up.

Suitable products: ▶ **3M™ Specialty Solutions Tapes**



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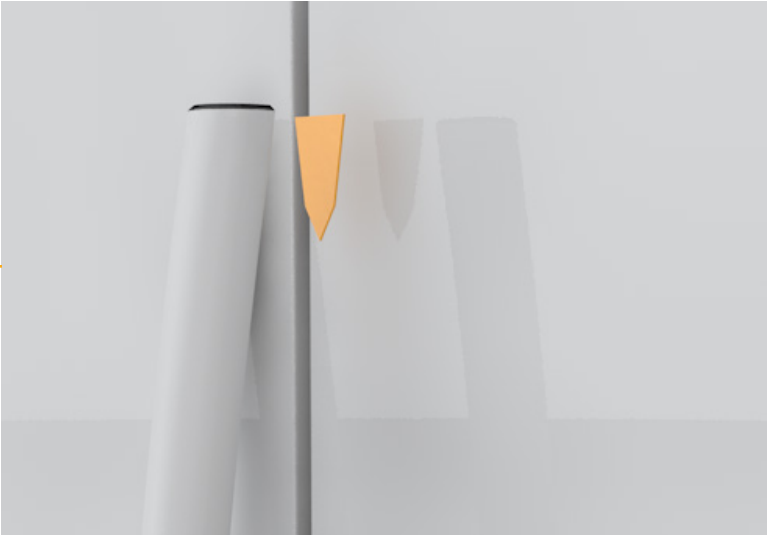
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### Handle assembly

Good performance under dynamic loads in small bonding areas.

- Suitable products:
- ▶ 3M™ VHB™ Tapes
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives





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## Glass door bonding

Features high strength and long-term durability.

- Suitable products:
- ▶ 3M™ VHB™ Tapes
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives



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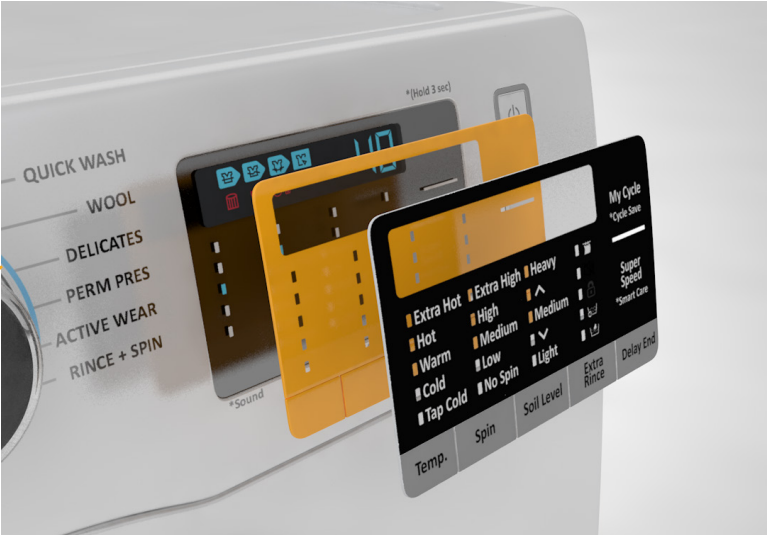
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New energy rules and advanced smart features are changing the game in washer design. Quieter operation, larger touch displays and connectivity are just a few of the innovations that designers are building in-with the help of 3M technologies.



## Touch panel display

High adhesion to a range of substrates and provides humidity resistance.

Suitable products:

- ▶ 3M™ Thin Bonding Tapes





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## Decorative trim

Bonding dissimilar materials or delicate substrates,  
featuring high strength and chemical resistance.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes 
  - ▶ 3M™ VHB™ Tapes 

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## Felt insulation

Immediate foam tearing strength, available in aerosol, cylinder or bulk packaging.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives





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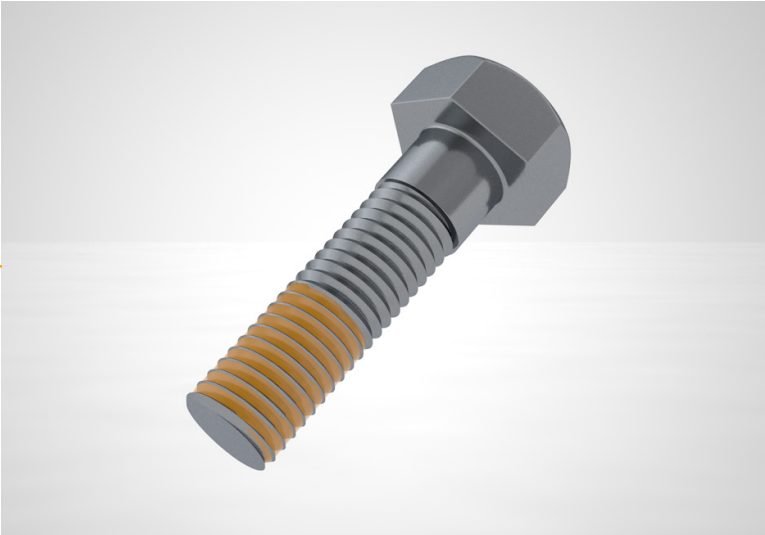
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## Torque bolts

Prevents nuts and bolts from loosening with vibration.  
Seals threads to help stopping corrosion and rust.

Suitable products: ▶ 3M™ Scotch-Weld™ Threadlocker



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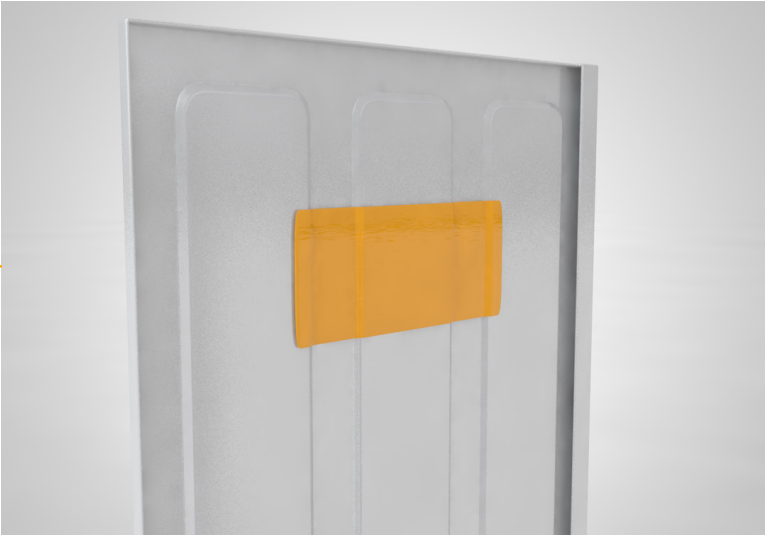
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## Noise and vibration reduction

Damping the vibrations on the panels, with high adhesion and moisture resistance.

Suitable products: ▶ 3M™ Specialty Solutions Tapes





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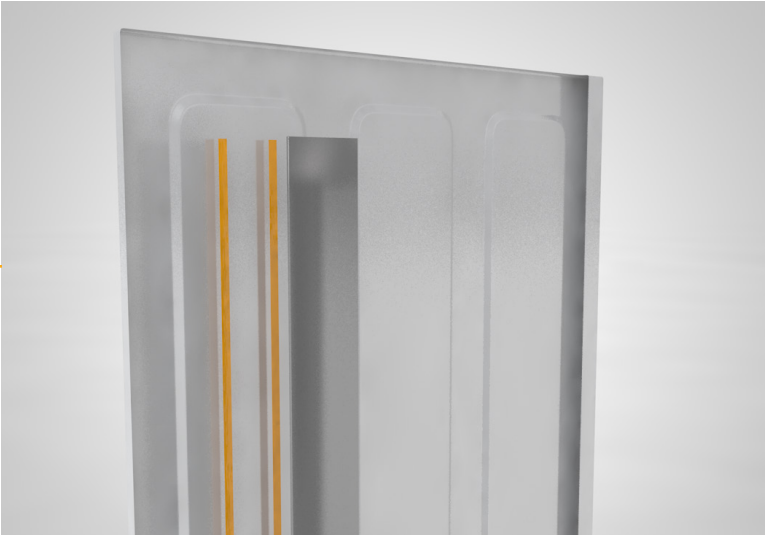
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## Stiffener plates

High adhesion to metals and good impact strength for long-term durability.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes [↗](#)
  - ▶ 3M™ VHB™ Tapes [↗](#)

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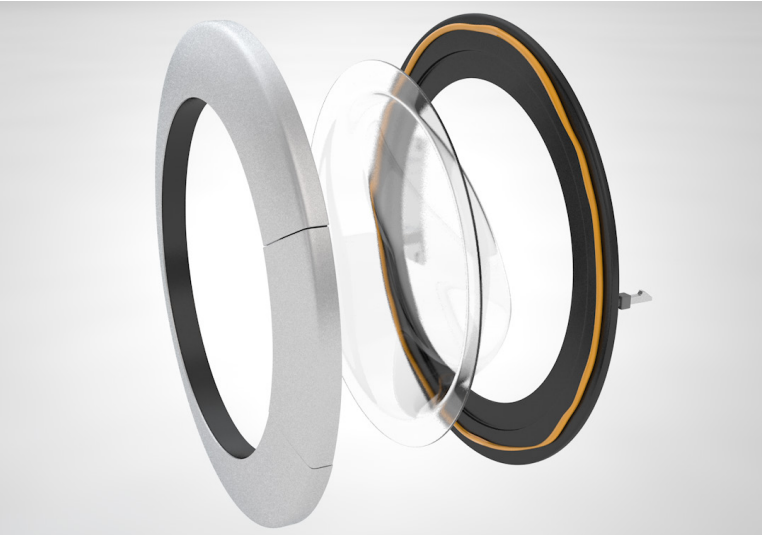
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## Glass door bonding

Precise application with fast curing characteristics.

Suitable products: ▶ 3M™ Scotch-Weld™ PUR Adhesive





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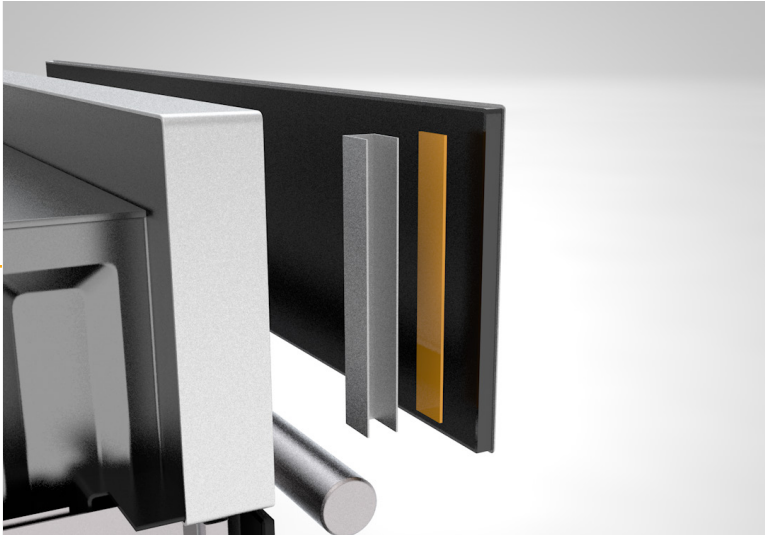
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Despite their history as utilitarian food preparation tools ovens are changing rapidly. From digital touch screen controls to new smart features and connectivity, these kitchen necessities are undergoing a renaissance in design limited only by the imagination of designers.



Front panel bracket

High holding forces on small areas with immediate handling strength or fast curing.

- Suitable products:
- ▶ 3M™ VHB™ Tapes
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives



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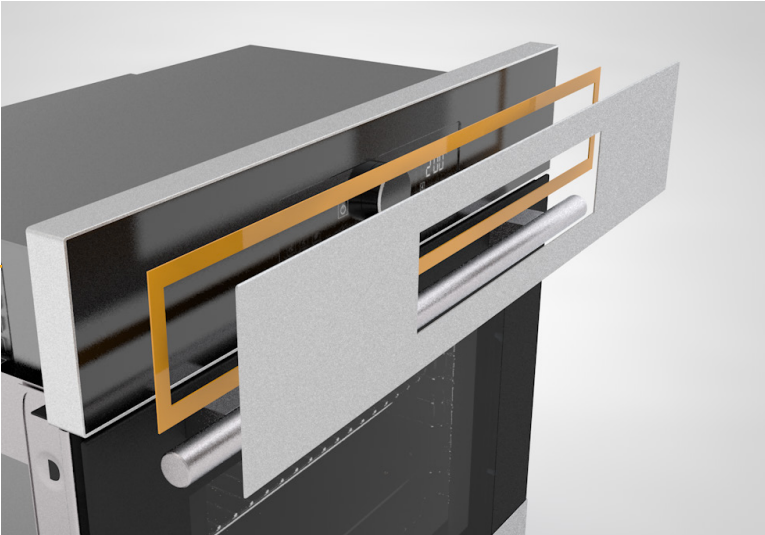
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Front panel trim

Good high temperature performance on thin bonding lines together with high initial tack.

Suitable products:

- ▶ 3M™ Thin Bonding Tapes





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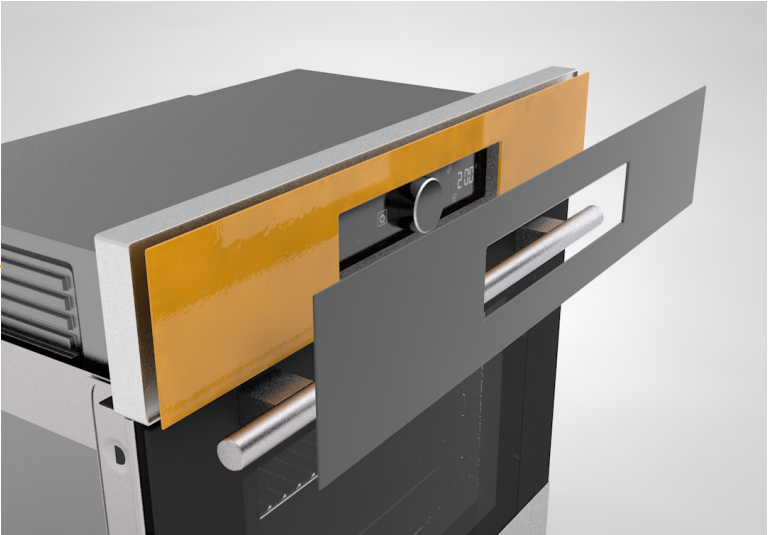
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Glass touch panel

Easy cut-to-shape solution with high temperature and high humidity resistance.

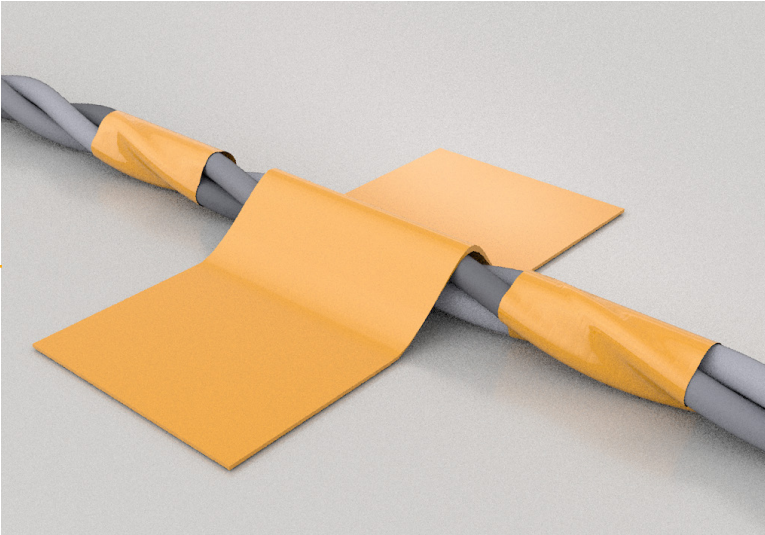
Suitable  
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Wire protection

Abrasion resistant and high temperature durable structure for bundling and fixing applications.

Suitable products: ▶ 3M™ Specialty Solutions Tapes 



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## Handle assembly

Aesthetic applications without drilling while providing high dynamic strength.

- Suitable products:
- ▶ 3M™ VHB™ Tapes 
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives 

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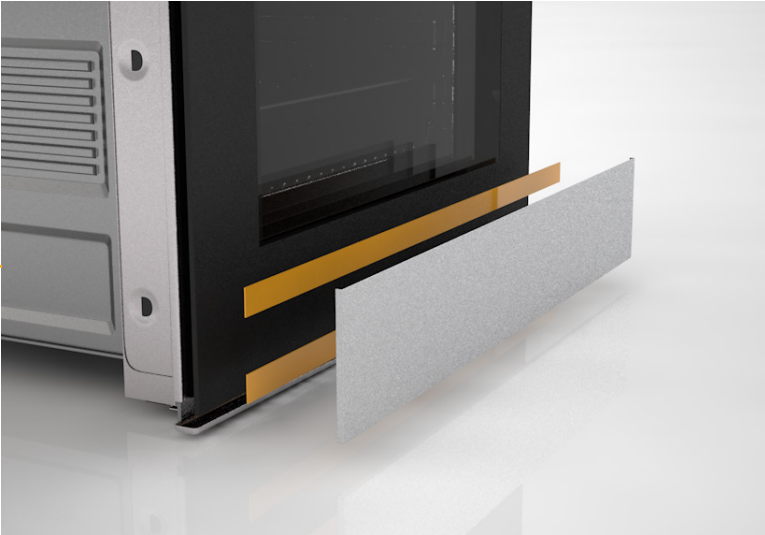
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Decorative trim

Easy to assemble solutions with chemical resistance on variable thicknesses.

Suitable  
products:

- ▶ 3M™ Thin Bonding Tapes
- ▶ 3M™ VHB™ Tapes



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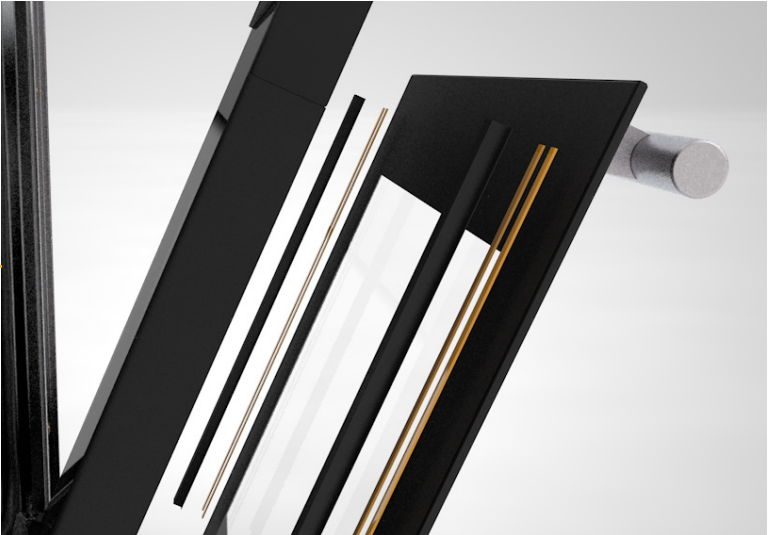
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## Glass window bonding

High holding forces with moderate temperature resistance and immediate handling.

- Suitable products:
- ▶ 3M™ VHB™ Tapes
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives





# 04 Dishwashers

Noisy, oversized and clumsy, dishwashers of the past were always more helpful than beautiful. Now a new generation of demanding consumers are forcing designers to give these homely kitchen workhorses a technological makeover. Enter the quiet, stylish and durable dishwasher, brought to you in part by 3M technologies.

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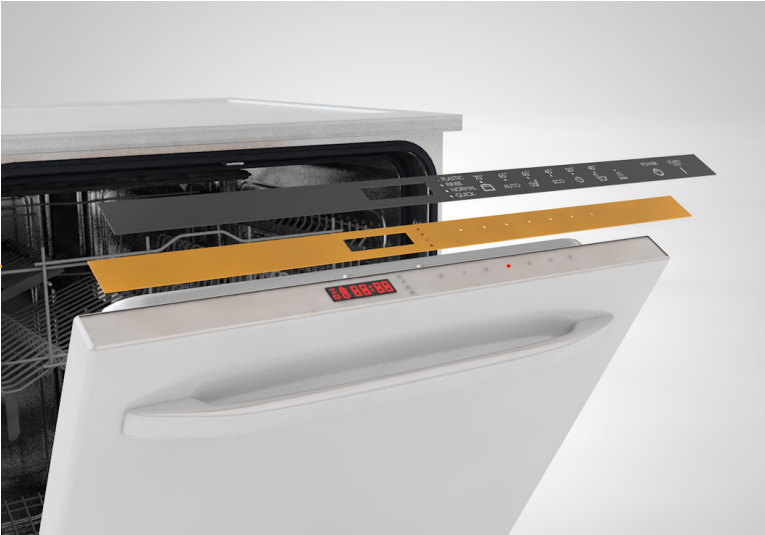
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## Touch panel display

Bonds and seals simultaneously while providing ‘anti-edge lifting’ properties.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes [↗](#)
  - ▶ 3M™ VHB™ Tapes [↗](#)

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## Handle assembly

Good dynamic strength with better appearance.

- Suitable products:
- ▶ 3M™ VHB™ Tapes
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives



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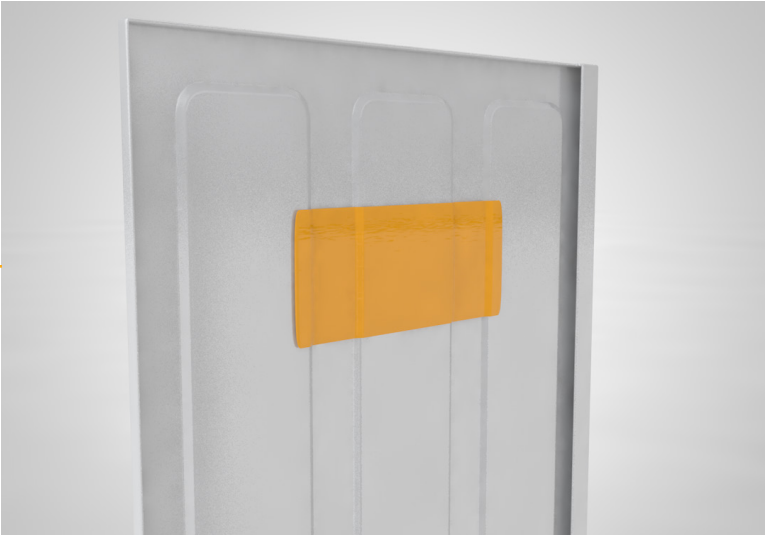
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## Noise and vibration reduction

Vibration damping on the panels or inner cabinet with its thin profile and lightweight structure.

Suitable products:

- ▶ 3M™ Specialty Solutions Tapes





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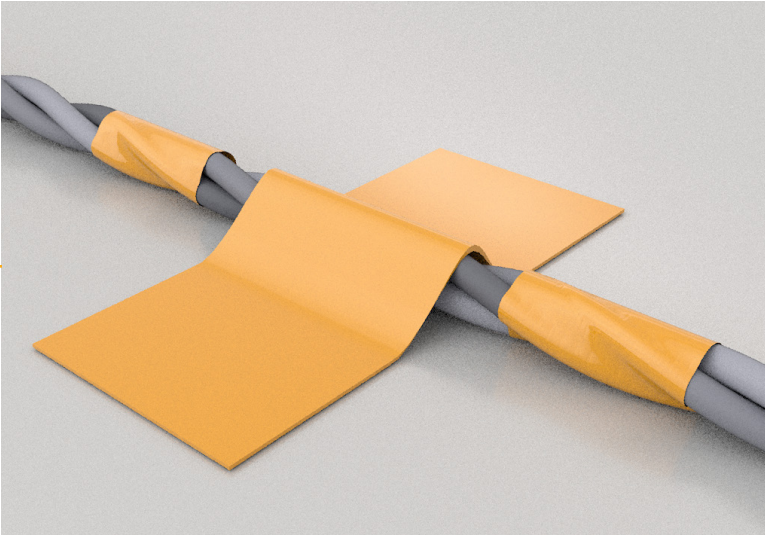
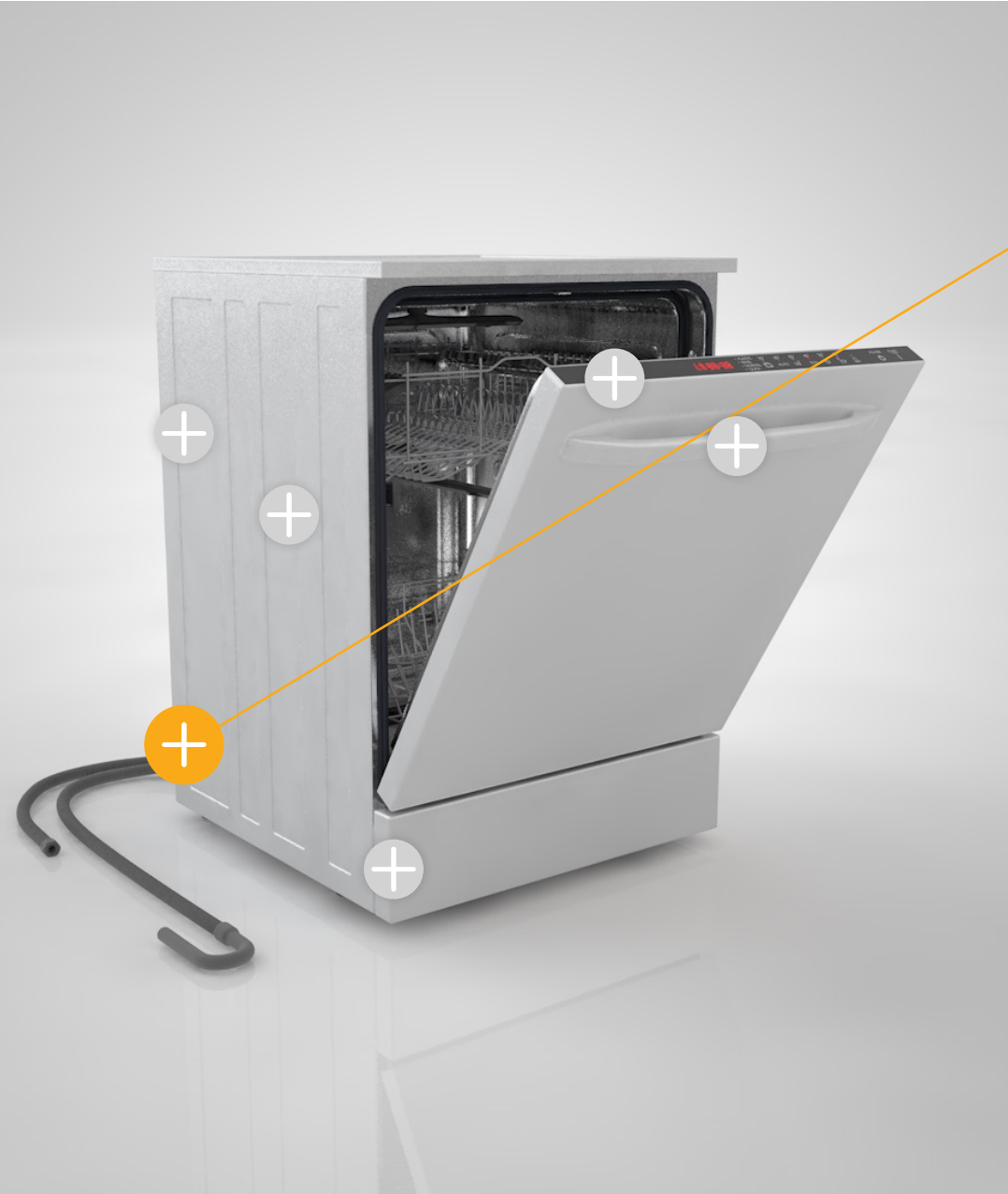
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## Wiring fixation

Securing wiring position with good adhesion and durability during thermal cycles.

Suitable products: ▶ 3M™ Specialty Solutions Tapes



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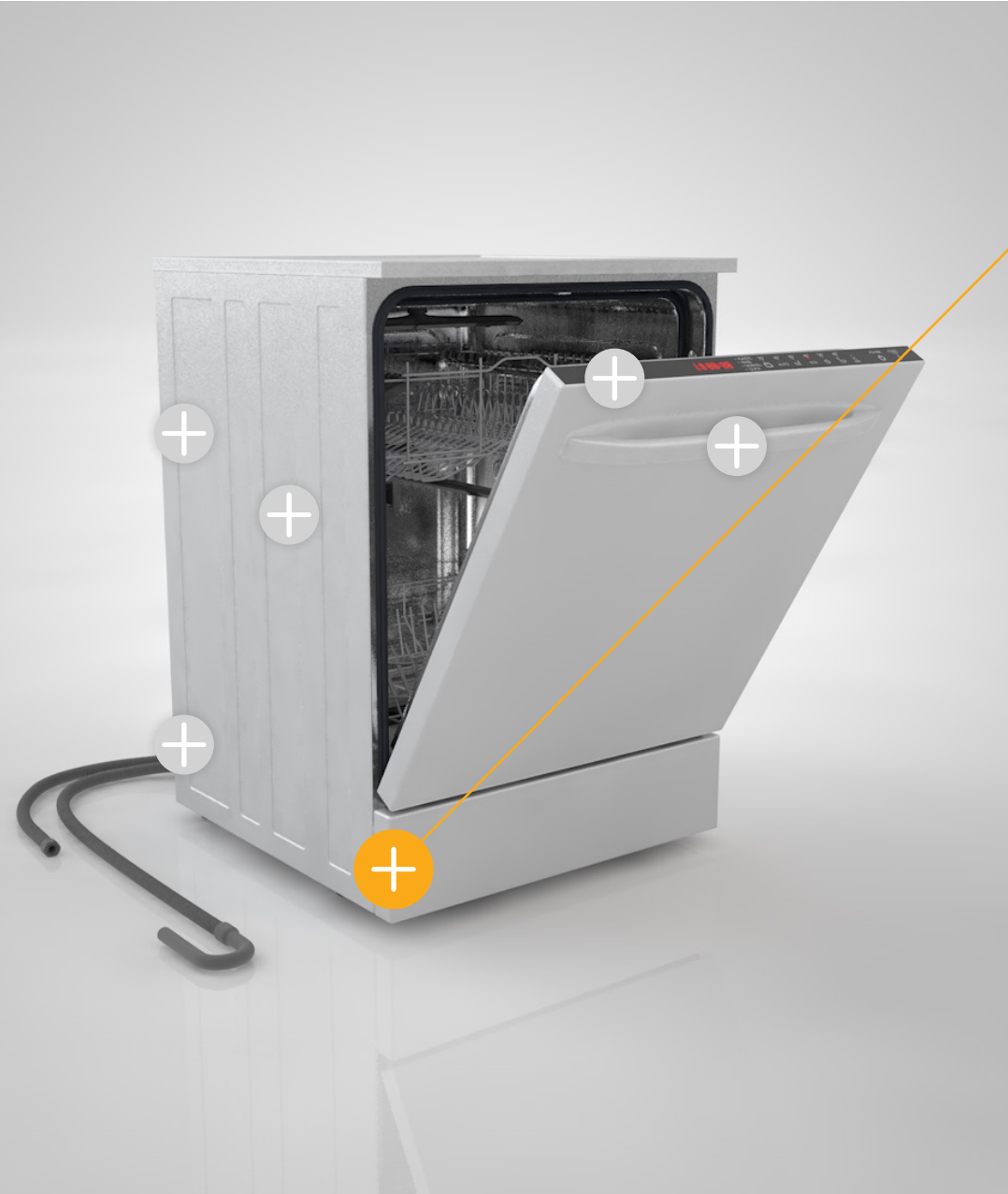
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## Kickplate bonding

High holding strength with good initial adhesion providing faster assemblies.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes 
  - ▶ 3M™ VHB™ Tapes 

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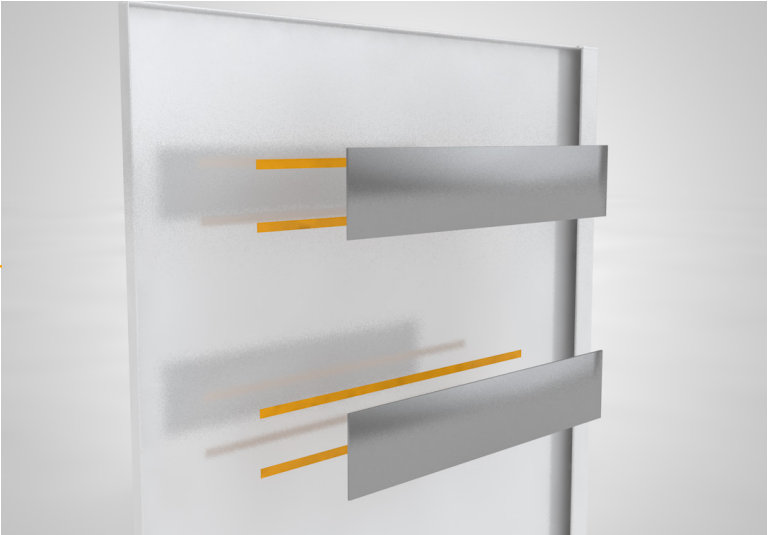
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## Stiffener plates

High impact strength and ease of assembly for metals with varying thicknesses.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes 
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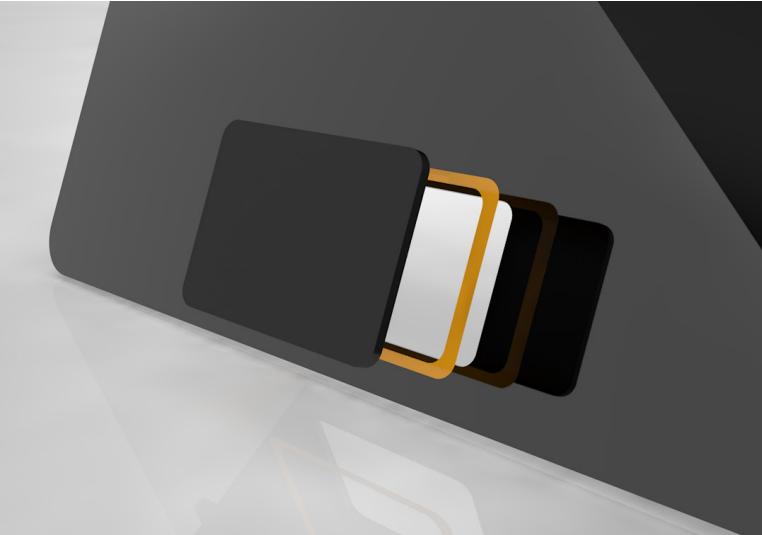


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Induction cooktops are becoming more popular in our homes. There are new colors, shapes and styles of cooktops while incorporating new technology such as wireless connectivity with other appliances.



## Touch panel assembly

Secure bonding with high temperature resistance and protect electronics by sealing capabilities.

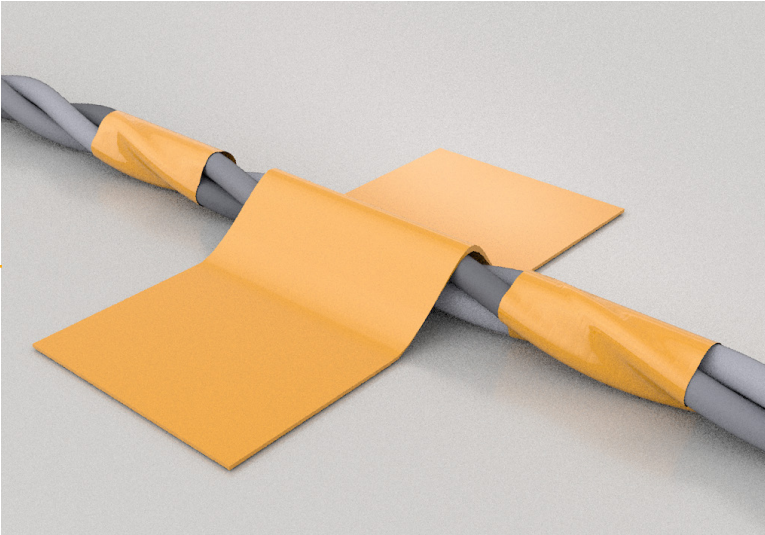
- Suitable products:
- ▶ 3M™ Thin Bonding Tapes [↗](#)
  - ▶ 3M™ VHB™ Tapes [↗](#)

# 05 Cooker top/hobs




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## Wire protection

Protection against abrasion and sharp edges together with high temperature resistance.

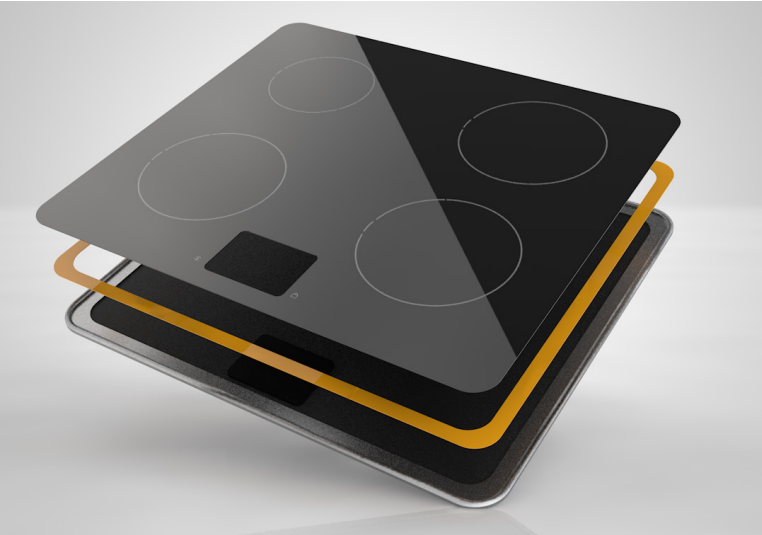
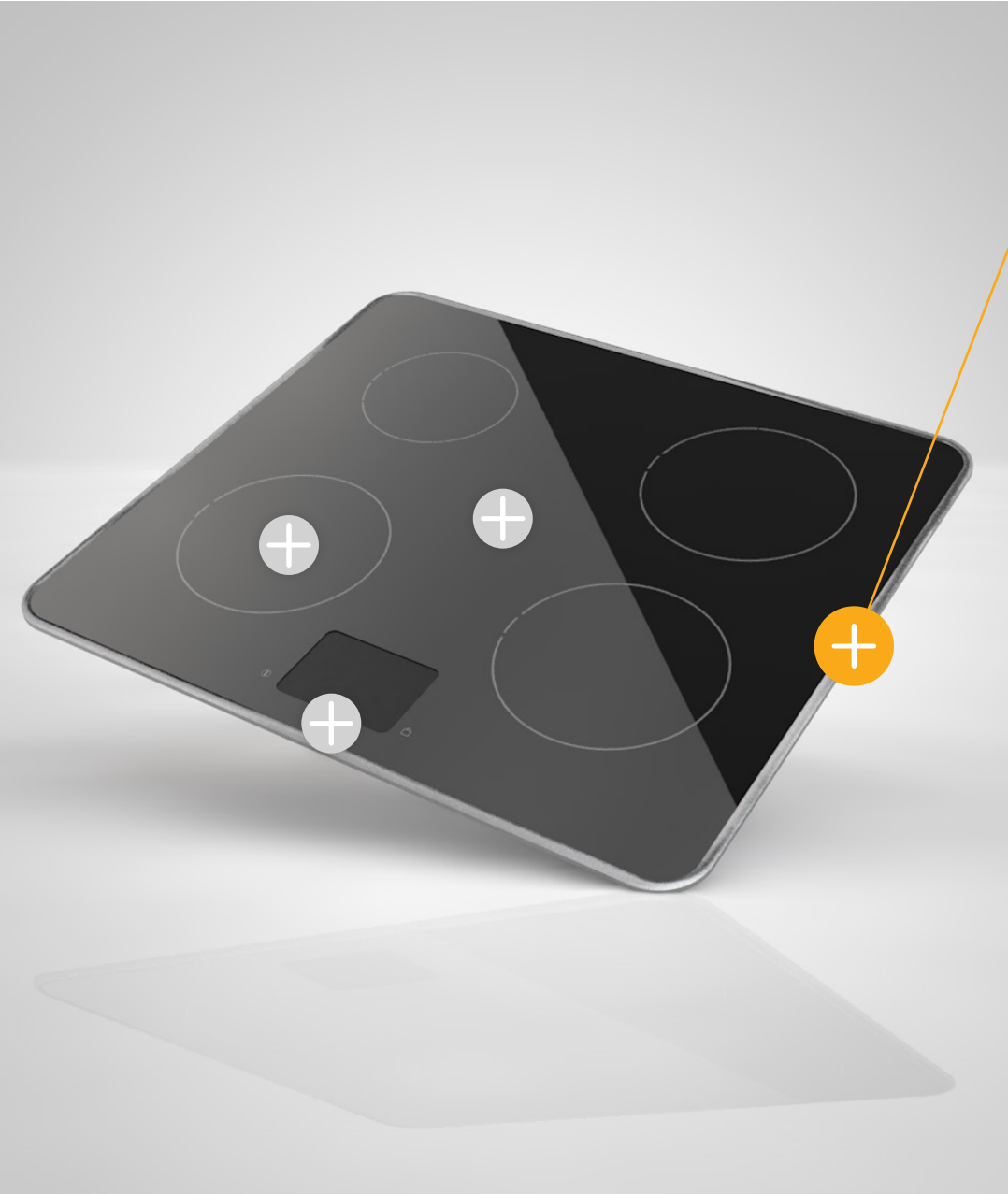
Suitable products: ▶ 3M™ Specialty Solutions Tapes 

# 05 Cooker top/hobs



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## Metal frame assembly

High load carrying capability and sealing feature providing easier assembly and faster processes with low or no curing times.

- Suitable products:
- ▶ 3M™ VHB™ Tapes
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives



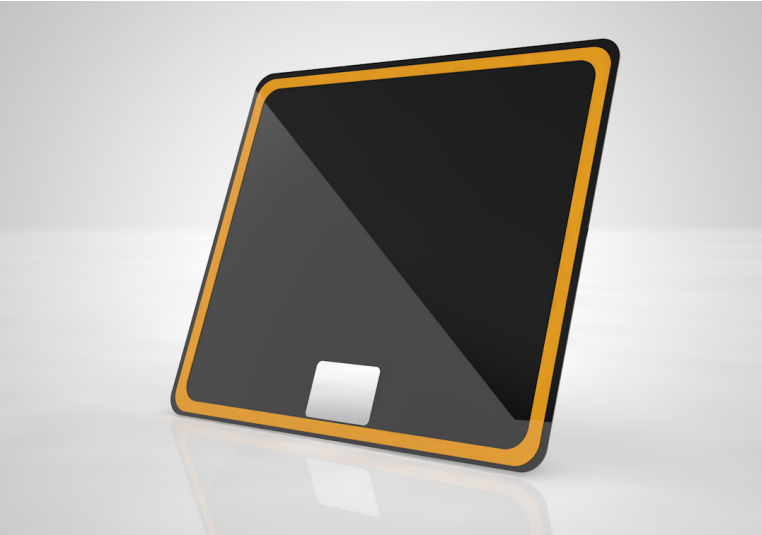


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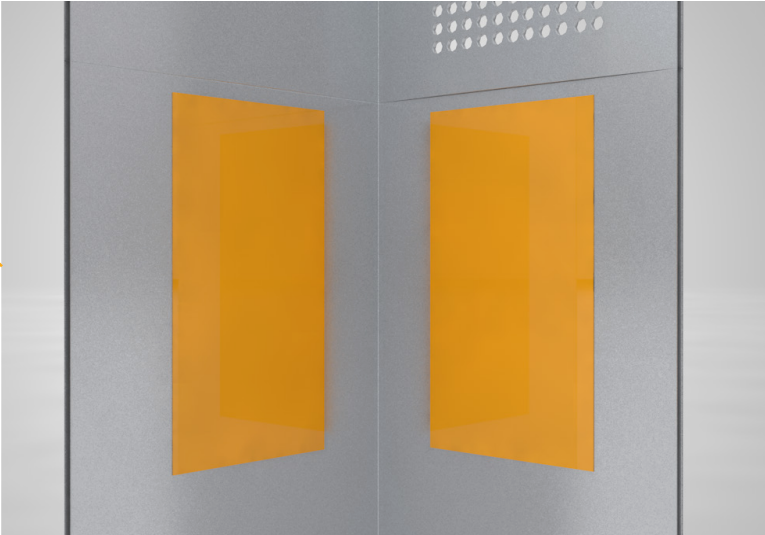
## Glass shatter protection

High temperature resistance and cut resistance results in securing single-piece glass after breakage.

Suitable products: ▶ 3M™ Specialty Solutions Tapes [↗](#)


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There is wide product range of the kitchen hoods with multiple design options to match kitchen interiors on the market. We can see the continuous upgrades of products with additional features and better performance. Sound management and energy efficiency are key areas that designers are focused on.



## Noise and vibration reduction

Easily dampen vibrations on the panels by sticking the thin profiled foil to the aluminium.

Suitable products: ▶ 3M™ Specialty Solutions Tapes 

01 Refrigerators

02 Washer/dryers

03 Ovens

04 Dishwashers

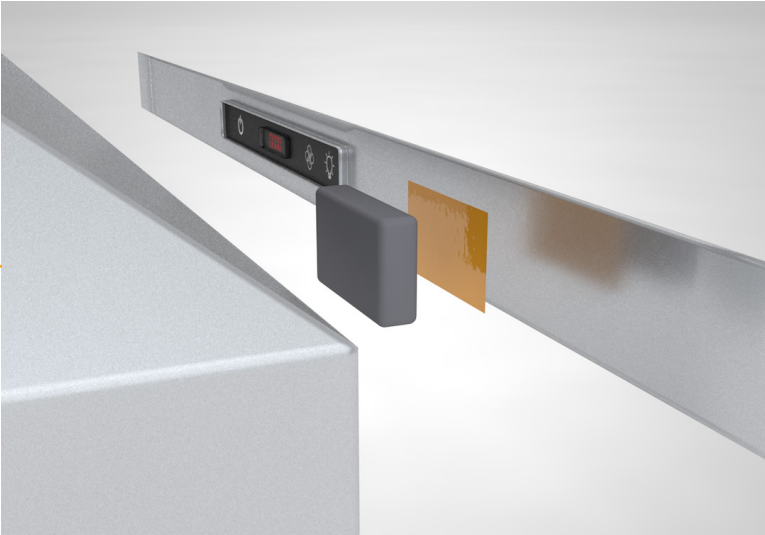
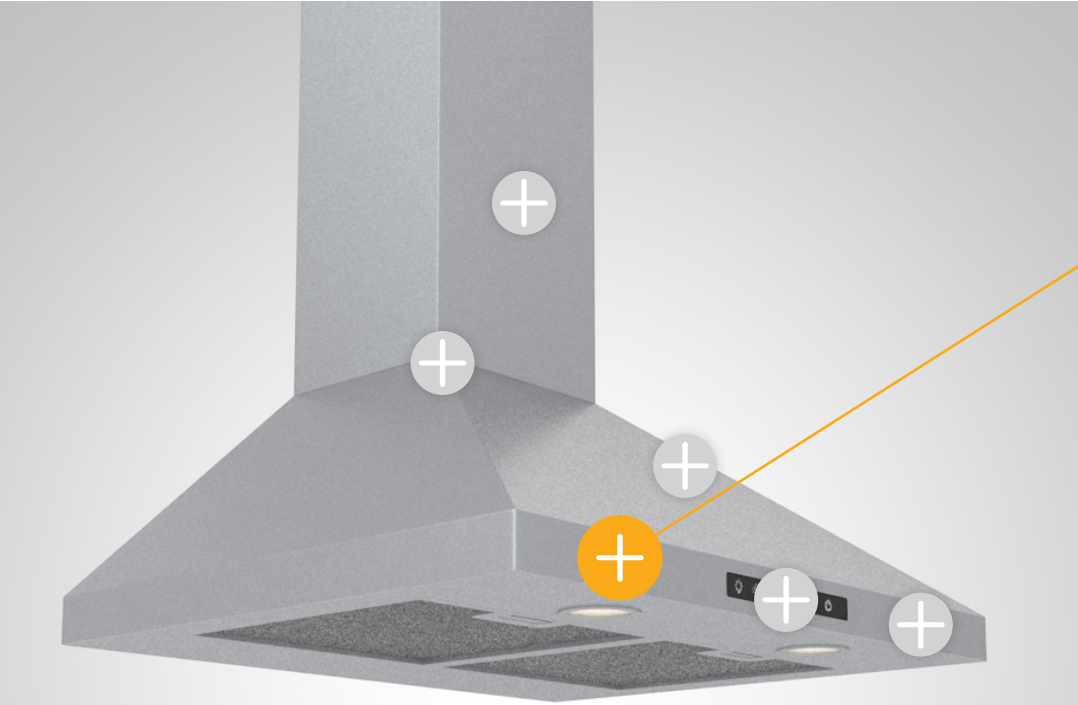
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## Integrated equipment

Durable and moisture resistant attachment of additional components without drilling.

Suitable products:

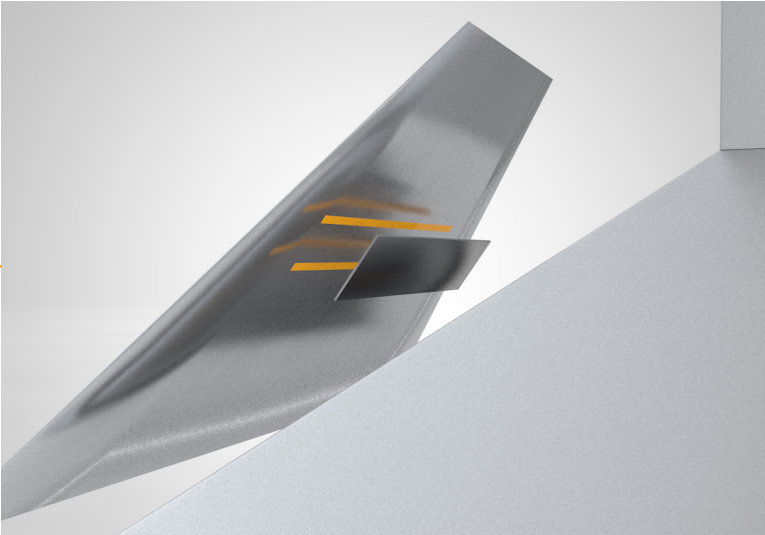
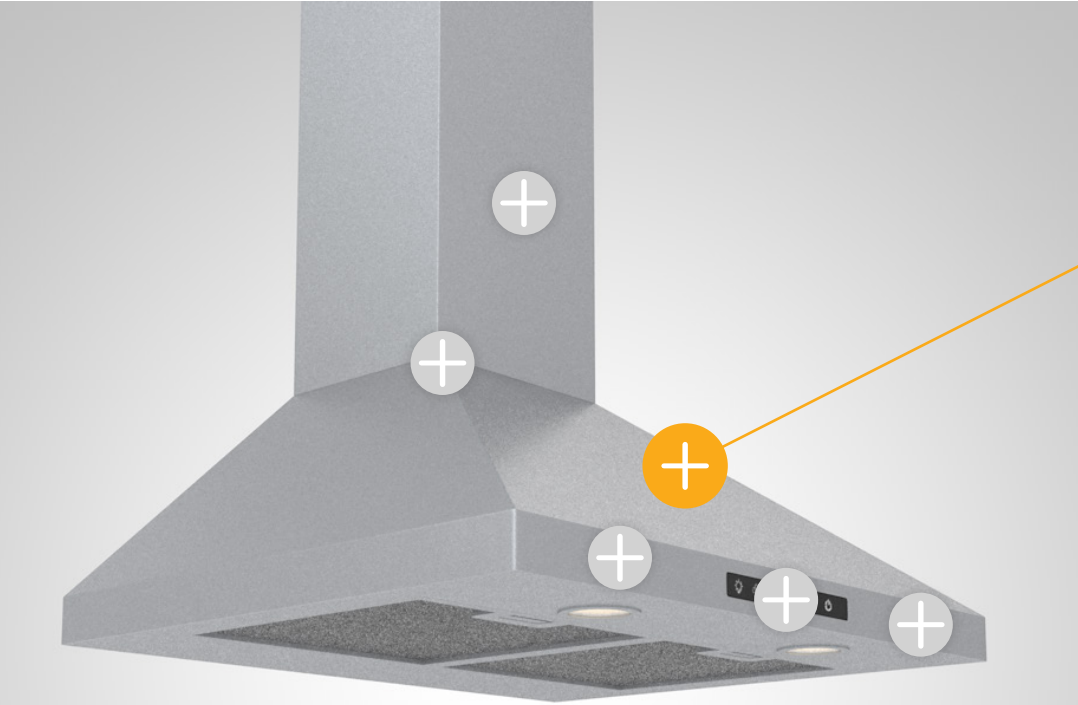
- ▶ 3M™ VHB™ Tapes





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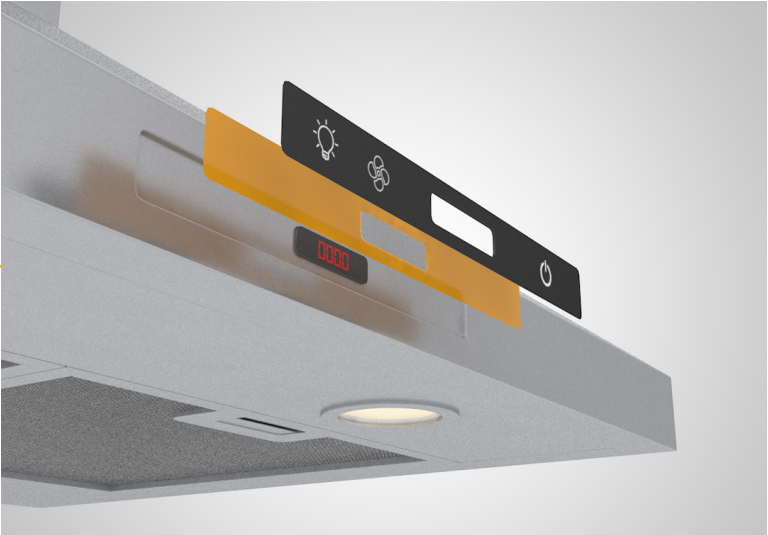
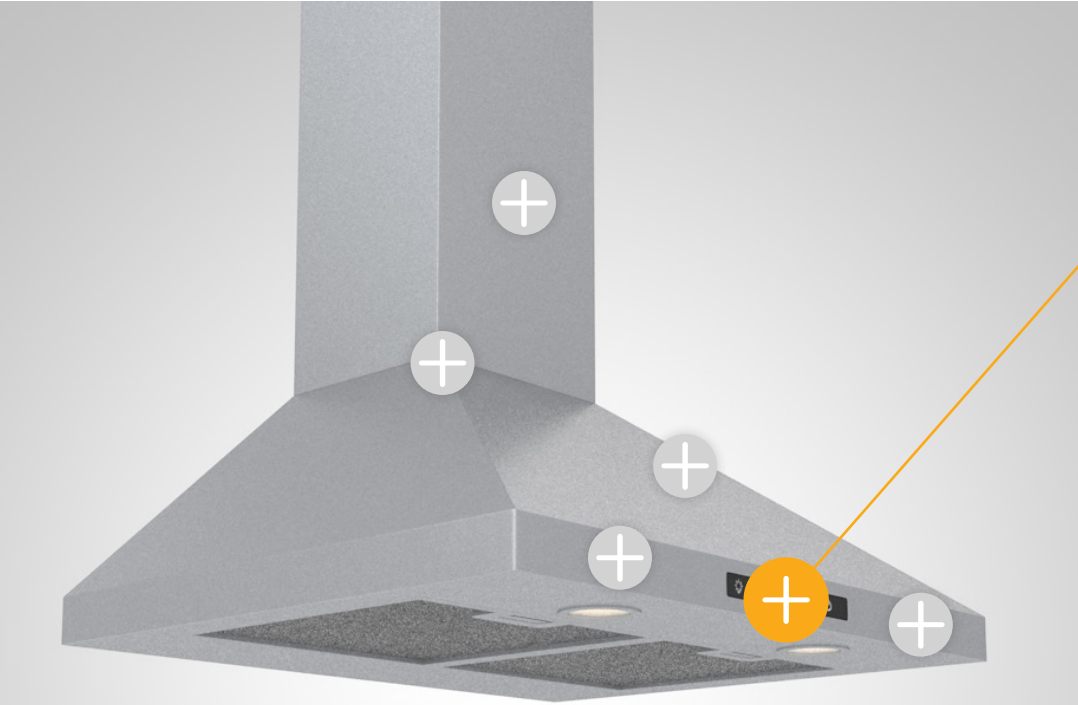
## Stiffener panels

Ease of assembly on metal panels by high adhesion and impact resistance.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes
  - ▶ 3M™ VHB™ Tapes



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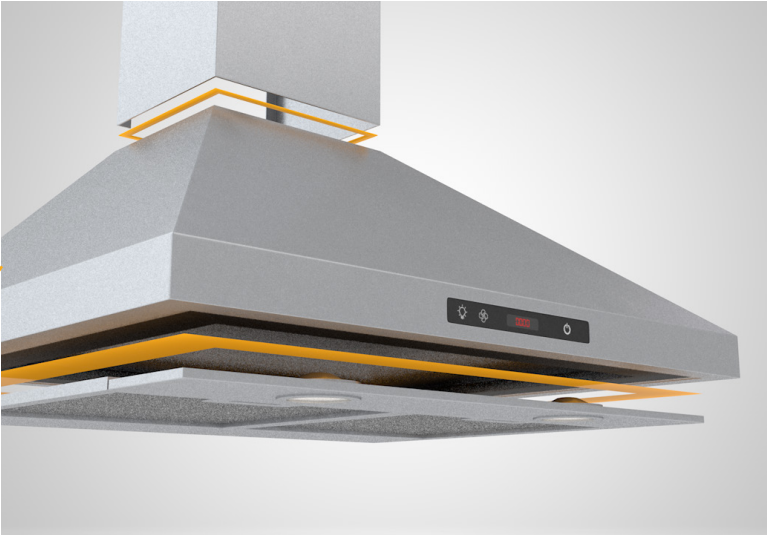
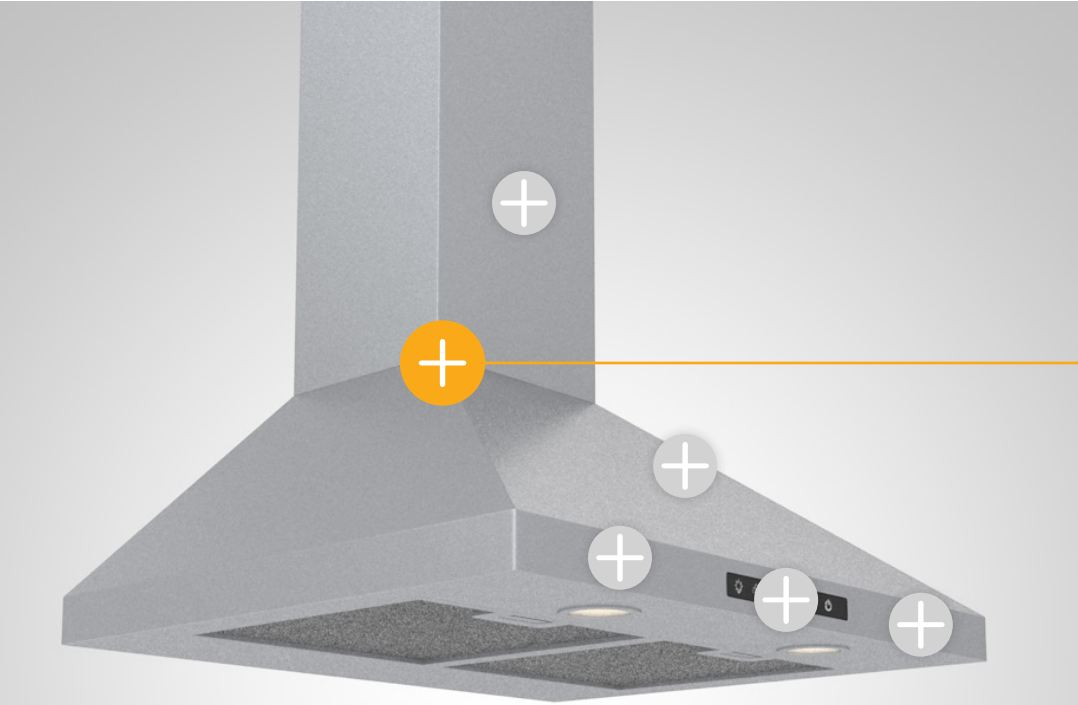
## Touch panel bonding

High temperature and humidity resistance while providing aesthetical bonding and sealing.

- Suitable products:
- ▶ 3M™ Thin Bonding Tapes 
  - ▶ 3M™ VHB™ Tapes 

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## Panel bonding

High strength and load carrying capabilities in tough conditions like high temperature and humidity, cleaning efforts.

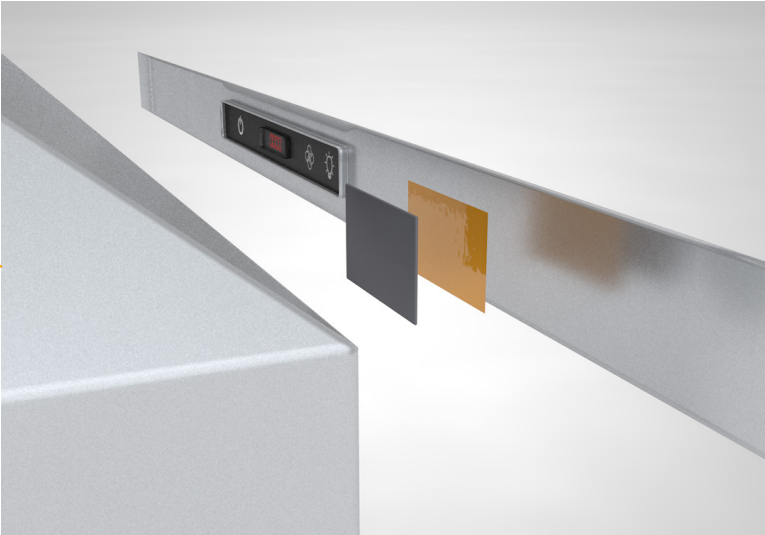
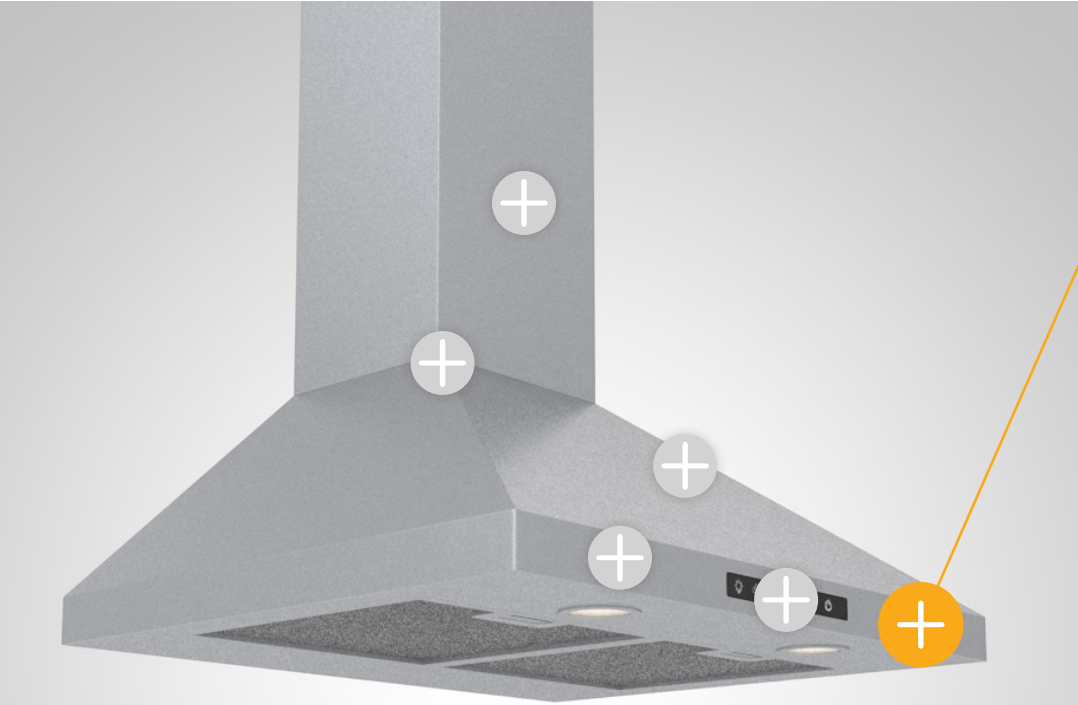
- Suitable products:
- ▶ 3M™ VHB™ Tapes
  - ▶ 3M™ Scotch-Weld™ Structural Adhesives





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## Magnet attachment

Thin bondline with high temperature resistance and high initial tack for fast and easy assembly.

Suitable products: ▶ 3M™ Thin Bonding Tapes

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- ▶ 3M™ VHB™ Tapes 

**Vacuum insulation panel:**

- ▶ 3M™ Thin Bonding Tapes 
- ▶ 3M™ VHB™ Tapes 

**Decorative trim:**

- ▶ 3M™ Thin Bonding Tapes 
- ▶ 3M™ Scotch-Weld™ Structural Adhesives 

**Bracket bonding:**

- ▶ 3M™ VHB™ Tapes 
- ▶ 3M™ Scotch-Weld™ Structural Adhesives 

**Hole covering:**

- ▶ 3M™ Specialty Solutions Tapes 

**Handle assembly:**

- ▶ 3M™ VHB™ Tapes 
- ▶ 3M™ Scotch-Weld™ Structural Adhesives 

**Glass door bonding:**



- ▶ 3M™ VHB™ Tapes 
- ▶ 3M™ Scotch-Weld™ Structural Adhesives 

02 Washer/dryers



**Touch panel display:**

- ▶ 3M™ Thin Bonding Tapes 

**Decorative trim:**

- ▶ 3M™ Thin Bonding Tapes 
- ▶ 3M™ VHB™ Tapes 

**Felt insulation:**

- ▶ 3M™ Thin Bonding Tapes 
- ▶ 3M™ Scotch-Weld™ Structural Adhesives 



**Torque bolts:**

- ▶ 3M™ Scotch-Weld™ Threadlocker 

**Noise and vibration reduction:**

- ▶ 3M™ Specialty Solutions Tapes 

**Stiffener plates:**



- ▶ 3M™ Thin Bonding Tapes 
- ▶ 3M™ VHB™ Tapes 

**Glass door bonding:**


- ▶ 3M™ Scotch-Weld™ PUR Adhesive 

03 Ovens

**Front panel bracket:**

- ▶ 3M™ VHB™ Tapes 
- ▶ 3M™ Scotch-Weld™ Structural Adhesives 

**Front panel trim:**

- ▶ 3M™ Thin Bonding Tapes 

**Glass touch panel**

- ▶ 3M™ VHB™ Tapes 



**Wire protection:**

- ▶ 3M™ Specialty Solutions Tapes 

**Handle assembly:**

- ▶ 3M™ VHB™ Tapes 
- ▶ 3M™ Scotch-Weld™ Structural Adhesives 

**Decorative trim:**

- ▶ 3M™ Thin Bonding Tapes 
- ▶ 3M™ VHB™ Tapes 

**Glass window bonding:**

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- ▶ 3M™ Scotch-Weld™ Structural Adhesives 

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- ▶ 3M™ Scotch-Weld™ Structural Adhesives 



**Noise and vibration reduction:**

- ▶ 3M™ Specialty Solutions Tapes 



**Wiring fixation:**

- ▶ 3M™ Specialty Solutions Tapes 

**Kickplate bonding:**



- ▶ 3M™ Thin Bonding Tapes 
- ▶ 3M™ VHB™ Tapes 

**Stiffener plates:**

- ▶ 3M™ Thin Bonding Tapes 
- ▶ 3M™ VHB™ Tapes 

05 Cooker top/hobs



**Touch panel assembly:**

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- ▶ 3M™ VHB™ Tapes 

**Wire protection:**

- ▶ 3M™ Specialty Solutions Tapes 

**Metal frame assembly:**

- ▶ 3M™ VHB™ Tapes 
- ▶ 3M™ Scotch-Weld™ Structural Adhesives 

**Glass shatter protection:**

- ▶ 3M™ Specialty Solutions Tapes 

06 Kitchen hoods



**Noise and vibration reduction:**

- ▶ 3M™ Specialty Solutions Tapes 



**Integrated equipment:**

- ▶ 3M™ VHB™ Tapes 


**Stiffener panels:**

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- ▶ 3M™ VHB™ Tapes 

**Touch panel bonding:**

- ▶ 3M™ Thin Bonding Tapes 
- ▶ 3M™ VHB™ Tapes 

**Panel bonding:**

- ▶ 3M™ VHB™ Tapes 
- ▶ 3M™ Scotch-Weld™ Structural Adhesives 

**Magnet attachment:**

- ▶ 3M™ Thin Bonding Tapes 



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3M appliance  
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