



GRAVOTECH
EXPRESSION OF THINGS



MATERIALS SELECTION GUIDE



Find the right material for your application!

This tool has been designed to help you find the right material for your application. The applications are classified in 5 categories:

SIGNAGE

IDENTIFICATION

PERSONALIZATION

CREATIVE

MANUFACTURING



The selection guide is composed of :

SUMMARY

- ADA & DDA Compliant
- Assets and property tags
- Small labels and tags
- Rigid industrial/ID tags
- Small signs
- Badges (name plates)
- Small flexible labelling
- Industrial signage/safety signs
- Directories/Location maps
- Professional plates/Premium plates
- Sign/Visual communication (engraving)
- Backlighting signage
- Letter cut-outs/Visual communication (cut)

Click on the application to access to the datasheet

SUMMARY

For each category (signage, creative, personalization, identification & manufacturing), you will find a summary with the list of the different applications.

Tips! You can click on the name of the application to go directly to the right application sheet.

MEDALS / KEY RINGS / TAGS
(LUGGAGE TAGS, SMALL PLATES)

Material	Indoor	Outdoor	Laser	Rotary	UV Print	Composition	Adhesive backing	Price
Cravoply™ Laser	✓	✓	✓	✓	✓	Plastic	Option	€ -
Laser Wood	✓	-	✓	✓	✓	Wood	-	€€€
Cravoply™ 1	✓	-	-	✓	✓	Plastic	Option	€€
Cravoglas™ 2-Flex™ Surface	✓	✓	-	✓	✓	Plastic	Option	€€
Cravoxal™	✓	✓	✓	✓	✓	Metal	Option	€€€

Note 1: Plastic, aluminum or wood, choose from our material selection according to your need
Note 2: Cut-to-size service available for on-demand sized tags

APPLICATION DATASHEET

1 application datasheet = 1 slide

5 (maximum) most relevant materials for the application

Material	Type of material	Laser CO2	Engraving	UV Print	Indoor	Outdoor	Military plates	Trophy plates / Sport tags	Medals / Key rings / Tags	Funnels/plates / UV plates	Rubber stamps
Cravoply™ Laser	Plastic	x	x	x	x	x		x	x		
Cravoply™ Ultra	Plastic	x	x	x	x	x		x	x		
Cravoply™ 2	Plastic	x	x	x	x	x		x	x		
Cravoglas™ 1	Acrylic	x	x	x	x	x			x		
Acrylic	Acrylic	x	x	x	x	x			x		
Cravoxal™	Plastic	x	x	x	x	x					
Flexbase™	Plastic	x	x	x	x	x		x		x	
Stickbase™	Plastic	x	x	x	x	x		x			
Cravoxal™	Stratified	x	x	x	x	x					x
Flexbase™	Plastic	x				x					
Laser Wood	Wood	x	x	x	x	x			x		
Cravoply™ 1	Plastic	x	x	x	x	x			x		
Cravoply™ 3C	Plastic	x	x	x	x	x					
Cravokul™	Plastic	x	x	x	x	x				x	
Cravoglas™ 2-Flex Surface	Plastic	x	x	x	x	x			x	x	
Cravoglas™ 2-Flex Subsurface	Plastic	x	x	x	x	x					
Cravoxal™	Plastic	x	x	x	x	x					
Cravoglas™	Metallic	x	x	x	x	x		x		x	
Flexbase™	Metallic	x	x	x	x	x		x		x	
Cravoxal™	Metallic	x	x	x	x	x	x		x		
Cravoxal™	Metallic	x	x	x	x	x			x		
Cravomesal™	Metallic	x	x	x	x	x		x		x	
Colored Aluminum	Metallic	x	x	x	x	x		x			
Alumamark™	Metallic	x	x	x	x	x					
DuraBlack™	Metallic	x	x	x	x	x	x				

MATERIAL SELECTION GUIDE PER APPLICATION

Other materials may also be suitable; they are written in this overview.



How to read the application datasheet?

Click to go to the summary

SIGNAGE

← Back to signage

Name of the application

ADA & DDA COMPLIANT

(TACTILE SIGNAGE, BRAILLE)



Category



Pictures of the application

Selection of the most relevant materials (5 maximum)

APPLICATION DATASHEET

Most popular choice for the most effective material



Material	Indoor	Outdoor	Laser	Rotary	Composition	Adhesive backing	Price	Main asset
Gravotac™ Exterior	✓	✓	✓	✓	Plastic	Option	€€€	Versatility
Gravotac™	✓	-	-	✓	Plastic	Option	€€€	More colors

Main asset for the selected materials

Idea of the price level between the selected ranges

Note 1 : Dedicated to Braille and tactile signs
Note 2 : Americans with Disabilities Act (ADA) and Disability Discrimination Act (DDA) compliant
Note 3 : Matt finish, enhance visibility by choosing contrasted colours

Additional informations

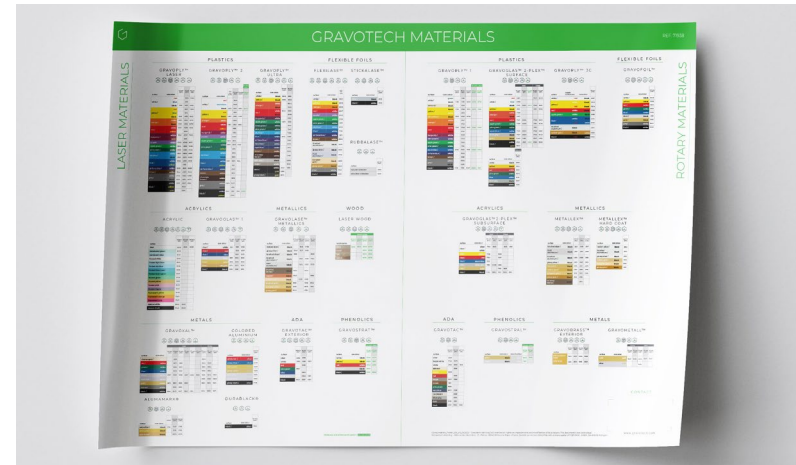


OTHERS MATERIALS COMMUNICATION TOOLS



ENGRAVING SOURCE BOOK

Your source for all engraving materials, supplies and fabrication services.



ENGRAVING MATERIAL POSTER

Your source for all engraving materials, supplies and fabrication services.



«SWATCHY» SAMPLES

Physical samples of Gravotech's key materials.



TECHNICAL & SAFETY DATASHEETS



SUMMARY CATEGORIES & APPLICATIONS

SIGNAGE

ADA & DDA Compliant	9
Assets & property tags	10
Small labels, tags	11
Rigid industrial tags, ID tags	12
Small signs	13
Badges (name plates)	14
Small flexible labelling	15
Industrial signage	16
Directories, location maps	17
Professional plates, premium plates	18
Sign & visual communication	19
Backlighting signage	20
Letter cut-outs & visual communication	21

IDENTIFICATION

Machine, rating, name plates	25
Electrical tags	26
Pipes & valves, HVAC	27

PERSONALIZATION

Military plates	31
Trophy plates, sport tags	32
Medals, key rings, tags	33
Funeral plaques, urn plates	34
Rubber stamps	35

CREATIVE

Visual communication, promotional items	39
Architectural models & hobbies	40
Trophy & awards	41
Stationery, scrapbooking	42
Mode & accessories	43
Craft	44
Tableware	45
Stencils, decorative stickers	46

MANUFACTURING

Cutting of basic shapes	50
Front panels, control panels	51
Scales & dials	52
Flow summary chart, synoptic	53

Click on the application to access to the datasheet.



SIGNAGE

The visual signage includes the creation of supports to inform and guide the visitors/customers/employees of a company... (ODI: Orient, Direct, Inform). It includes: plates for goods and properties, labels and small plates, plates for signs, hospitals, administrations...



SUMMARY

SIGNAGE - APPLICATION DATASHEETS

ADA & DDA Compliant	9
Assets & property tags	10
Small labels, tags	11
Rigid industrial tags, ID tags	12
Small signs	13
Badges (name plates)	14
Small flexible labelling	15
Industrial signage	16
Directories, location maps	17
Professional plates, premium plates	18
Sign & visual communication	19
Backlighting signage	20
Letter cut-outs & visual communication	21

[← Back to summary](#)

Click on the application to access to the datasheet.

[Signage material selection guide →](#)



← Back to signage

ADA & DDA COMPLIANT

(TACTILE SIGNAGE, BRAILLE)



Material	Indoor	Outdoor	Laser	Rotary	Composition	Adhesive backing	Price	Main asset
Gravotac™ Exterior	✓	✓	✓	✓	Plastic	Option	€€€	Versatility
Gravotac™	✓	-	-	✓	Plastic	Option	€€€	Wider choice of colors







Note 1: Dedicated to Braille and tactile signs
Note 2: Americans with Disabilities Act (ADA) and Disability Discrimination Act (DDA) compliant
Note 3: Matt finish, enhance visibility by choosing contrasted colours



← Back to signage

ASSETS & PROPERTY TAGS (LOGISTICS, INVENTORY)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Flexilase™	✓	✓	✓	✓	Plastic	✓	€€€	Flexible, mat smooth surface
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	3 thicknesses
Stickalase™	✓	-	✓	-	Plastic	✓	€€€	Thin and flexible, matt surface
Laser Wood	✓	-	✓	✓	Wood	Not available	€€€	Ecofriendly, natural wood
AlumaMark®	✓	-	Engraving only	-	Metal	✓	€€€	Premium aspect







Note : Choose Flexilase™ or Stickalase™ to stick on curved surfaces



← Back to signage

SMALL LABELS, TAGS (KEY TAGS, TOKENS)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Gravoply™ 1	✓	-	-	✓	Plastic	Option	€€€	Thick and resistant surface
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Very large color choice
Gravoply™ 2	✓	-	Engraving only	✓	Plastic	Option	€€€	Value for money
Gravoglas™ 2-plex Surface	✓	✓	-	✓	Plastic	Option	€€€	Textured finish available
Gravoxal™	✓	✓	Engraving only	✓	Metal	Option	€€€	Suitable for thin engraving

Note 1 : Gravoply™ 1 and Gravoglas™ 2-Plex™ Surface (Textured especially) have a thick and resistant surface







Note 2 : Cut-to-size service available for on-demand sized tags



← Back to signage

RIDIG INDUSTRIAL TAGS (SEAT NUMBERS)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Gravoply™ 1	✓	-	-	✓	Plastic	Option	€€€	Thick and resistant surface
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Very large color choice
Gravoglas™ 2-Plex Surface	✓	✓	-	✓	Plastic	Option	€€€	Textured finish available
Gravolase™ Metallics	✓	✓	✓	✓	Plastic	Option	€€€	Metallic aspect at low price
Gravoxal™	✓	✓	Engraving only	✓	Metal	Option	€€€	Suitable for thin engraving

Note 1: Gold and silver surface colors available in Gravolase™ Metallics (plastic) or Gravoxal™ (aluminum) ranges

Note 2: [Cut-to-size service](#) available for on-demand sized tags









← Back to signage

SMALL SIGNS

(DOOR PLATES, LETTERBOX PLATES, DESK PLATES, MUSEUM ART TAGS...)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Very large color choice
Flexilase™	✓	✓	✓	✓	Plastic	✓	€€€	Flexible, plain or metallic colors
Gravoglas™ 2-Plex Subsurface	✓	✓	-	✓	Plastic	Option	€€€	Thick and resistant surface
Gravolase™ Metallics	✓	-	✓	✓	Plastic	Option	€€€	Metallic aspect
Metallex™	✓	-	Engraving only	✓	Metal	Option	€€€	Metallic aspect at low price

Note 1 : For a laser material with reverse engraving, use Gravoglas™ 1







Note 2 : Cut-to-size service available for on-demand sized tags



← Back to signage

BADGES (NAME PLATES)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Gravoply™ 2	✓	-	✓	Engraving only	Plastic	Option	€€€	Large color choice at a lower price
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Very large color choice
Laser Wood	✓	-	✓	✓	Wood	Not available	€€€	Natural wood for laser & rotary
Gravoply™ 1	✓	-	-	✓	Plastic	Option	€€€	Very resistant surface
Gravolase™ Metallics	✓	-	✓	✓	Plastic	Option	€€€	Metallic plastic for laser

Note 1: Cut and engrave [your own badges](#) or ask for the [cut-to-size service](#)

Note 2: Gravotech offers [spare fixture systems](#) to assemble on your badges









← Back to signage

SMALL FLEXIBLE LABELLING

(CABLES & PIPES EXCLUDED)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Flexilase™	✓	✓	✓	✓	Plastic	✓	€€€	Easy to apply on curved surfaces
Stickalase™	✓	-	✓	-	Plastic	✓	€€€	Thinner, more flexible
Gravofoil™	✓	✓	-	✓	Plastic	✓	€€€	For industry: acid & solvent proof

Note 1: Flexilase™ is a 0.25 mm (.01") acrylic. It is the most polyvalent material for this application: large range with plain and metallic colors, indoor and outdoor use, laser and rotary engraving and cutting

Note 2: Available in black/white or silver/black, Stickalase™ is the thinner material of our range with a thickness of 0.09 mm (.004"). It is not suitable for outdoor labelling. Use Flexilase™ or Gravofoil™ for outdoor labelling







Note 3: [Cut-to-size service](#) available for on-demand sized tags



← Back to signage

INDUSTRIAL SIGNAGE (SAFETY SIGNS)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Gravostrat™	✓	-	Engraving only	✓	Phenolic	Option	€€€	For industry: see below
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Very large color choice
Gravoply™ 1	✓	-	-	✓	Plastic	Option	€€€	Very large color choice
Gravoply™ 3C	✓	-	-	✓	Plastic	Option	€€€	Allows 3 colors on the same sign
Gravoxal™	✓	✓	Engraving only	✓	Metal	Option	€€€	Premium aspect

Note 1 : Gravostrat™ is resistant to chemicals and solvents, non-flammable and electrically non-conductive

Note 2 : Ideal for pictograms (obligations, prohibitions...) with normative colors







Note 3 : For outdoor colored signs, choose Gravoply™ Laser



DIRECTORIES, LOCATION MAPS

← Back to signage



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Most polyvalent material, large color choice
Gravoglas™ 1	✓	✓	✓	✓	Plastic	Option	€€€	Reverse lasering, high outdoor durability
Gravotac™ Exterior	✓	✓	✓	✓	Plastic	Option	€€€	Tactile sign, ideal to combine with Braille
Laser Wood	✓	-	✓	✓	Wood	Not available	€€€	Natural wood, eco-friendly
Gravoxal™	✓	✓	Engraving only	✓	Metal	Option	€€€	Premium aspect, high quality contrast

Note 1 : Plastic, aluminium or wood according to the requested design

Note 2 : Except Laser Wood, the materials listed above are suitable for outdoor signs



← Back to signage

PROFESSIONAL PLATES, PREMIUM PLATES



Material	Indoor	Outdoor	Laser	Rotary	Composition	Adhesive backing	Price	Main asset
GravobrasTM Exterior	✓	✓	-	✓	Metal	Option	€€€	Very high added value signage
GravoglasTM 1	✓	✓	✓	✓	Plastic	Option	€€€	Gold color for very smart outdoor signage
Acrylic	✓	✓	✓	✓	Plastic	Not available	€€€	Large choice of colors
GravoglasTM 2-plex Surface	✓	✓	-	✓	Plastic	Option	€€€	Thick surface for deep engraving
GravolaseTM Metallics	✓	✓	-	✓	Metal	Option	€€€	Very high added value signage

Note 1: Solid or shiny polished, GravobrasTM Exterior is a high-quality engraver's brass. Paint fill for more contrast

Note 2: Large color offer in GravoglasTM 1, Acrylic or GravoglasTM 2-PlexTM Surface ranges









← Back to signage

SIGN & VISUAL COMMUNICATION

(SHOP, ADMINISTRATION...)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Very large color choice
Laser Wood	✓	-	✓	✓	Wood	Not available	€€€	Ecofriendly, natural wood
Gravoglas™ 2-plex Surface	✓	✓	-	✓	Plastic	Option	€€€	Textured, matt or glossy finishes
Gravoglas™ 2-plex Subsurface	✓	✓	-	✓	Plastic	Option	€€€	Reverse material for outdoor
Gravostral™	✓	-	-	✓	Phenolic + Aluminum	Option	€€€	Metallic with no paint fill needed

Note 1 : Plastic, aluminium or wood according to the requested design. Possible to mix different materials on a sign.


















Note 2 : Gravostral™ : Double-sided with aluminium on both sides and a phenolic black core, no paint filling required!



← Back to signage

BACKLIGHTING SIGNAGE



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Acrylic					Plastic	Not available	€€€	Thickness from 3mm to 10mm
Gravoglas™ 1					Plastic	Option	€€€	Gold and silver available
Gravoglas™ 2-plex Subsurface			-		Plastic	Option	€€€	Reverse material for outdoor

Note 1 : Clear Acrylic is a good alternative to glass: Perfect light transmission, easily associated with light/LED thanks to its uniform light transmission (see pictures).

Note 2 : Choose from thin to thicker Acrylic: 3 mm (1/8"), 6 mm (.20"), 10 mm (.40")

Note 3 : Use Gravoglas™ 1 (glossy) or Gravoglas™ 2-Plex Subsurface (mat) for colored signs.









← Back to signage

LETTER CUT-OUTS & VISUAL COMMUNICATION

(SIGNAGE, ROUTING, PROTOTYPING, CUT)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Acrylic	✓	✓	✓	✓	Plastic	Not available	€€€	Different aspects available
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Very large color choice
Laser Wood	✓	-	✓	✓	Wood	-	€€€	Eco-friendly, natural
Gravolase™ Metallics	✓	✓	✓	✓	Plastic	Option	€€€	Metallic aspect at a low price
Gravobrass™ Exterior	✓	✓	-	✓	Metal	Option	€€€	Very high added value signage

Note 1: Acrylic range is composed of translucent, fluorescent, frosted, clear or opaque materials

Note 2: Possibility to mix different kinds of materials for a unique & creative sign

Material	Type of material	Laser CO2	Rotary	UV Print	Indoor	Outdoor	ADA & DDA compliant	Assets & property tags	Small labels & tags	Rigid industrial tags (w/o machine)	Small signs	Badges (name plates)	Small flexible labelling (w/o cables and pipes)	Industrial signage Safety signs	Directories Location maps Directions	Professional plates/Premium plates	Sign (engraving)	Backlighting signage	Letter cut-outs (cut)
Gravoply™ Laser	Plastics	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓		✓
Gravoply™ Ultra	Plastics	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓		✓
Gravoply™ 2	Plastics	✓	✓	✓	✓			✓	✓	✓	✓	✓		✓	✓	✓	✓		
Gravoglas™ 1	Acrylics	✓	✓	✓	✓	✓			✓	✓					✓	✓	✓	✓	✓
Acrylic	Acrylics	✓	✓	✓	✓	✓			✓							✓	✓	✓	✓
Gravotac™ Exterior	Plastics	✓	✓	✓	✓	✓	✓								✓				✓
Flexilase™	Plastics	✓	✓	✓	✓	✓		✓			✓		✓						
Stickalase™	Plastics	✓		✓	✓			✓					✓						
Gravostrat™	Stratified	✓	✓	✓	✓					✓				✓					
Rubbalase™	Rubber	✓			✓														
Laser Wood	Wood	✓	✓	✓	✓			✓	✓			✓			✓		✓		✓
Gravoply™ 1	Plastics		✓	✓	✓				✓	✓	✓	✓		✓	✓				
Gravoply™ 3C	Plastics		✓	✓	✓							✓		✓					
Gravofoil™	Plastics		✓	✓	✓	✓							✓						
Gravoglas™ 2-Plex Surface	Plastics		✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓		✓
Gravoglas™ 2-Plex Subsurface	Plastics		✓	✓	✓	✓			✓	✓	✓				✓	✓	✓	✓	✓
Gravotac™	Plastics		✓	✓	✓		✓								✓				✓
Gravolase™ Metallics	Metallics	✓	✓	✓	✓			✓	✓	✓	✓	✓				✓	✓		✓
Metallex™	Metallics	✓	✓	✓	✓				✓	✓	✓	✓				✓	✓		✓
Gravostrat™	Stratified		✓	✓	✓						✓					✓	✓		
Gravoxal™	Metallics	✓																	
Gravobrass™ Exterior	Metallics		✓	✓	✓	✓										✓	✓		✓
Gravometal™	Metallics		✓	✓	✓						✓					✓	✓		✓
Colored Aluminum	Metallics		✓		✓						✓				✓		✓		
AlumaMark®	Metallics	✓		✓	✓			✓		✓	✓								
DuraBlack®	Metallics	✓			✓	✓		✓		✓	✓			✓	✓				



IDENTIFICATION

Industrial identification consists in marking parts/supports allowing the traceability of a supplier part, a product (serial number, bar code, QR code), a tool. We find there: machine identification plates, identification labels (electrical panel, piping...), inventory labels...



SUMMARY

IDENTIFICATION - APPLICATION DATASHEETS

Machine, rating, name plates	25
Electrical tags	26
Pipes & valves, HVAC	27

[← Back to summary](#)

Click on the application to access to the datasheet.

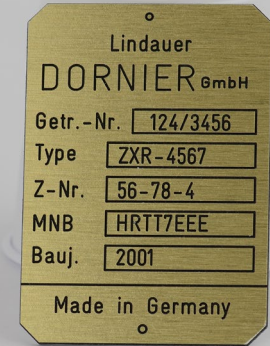
[Identification material selection guide →](#)



← Back to identification

MACHINE, RATING, NAME PLATES

(IDENTIFICATION PLATES, CE PLATES...)



Material	Indoor	Outdoor	Laser	Rotary	UV Print	Composition	Adhesive backing	Price	Main asset
Gravoxal™	✓	✓	Engraving only	✓	✓	Metal	Option	€€€	Premium aspect, high quality contrast
Gravoply™ Laser	✓	✓	✓	✓	✓	Plastic	Option	€€€	Sturdy and cheaper than other materials
Flexilase™	✓	✓	✓	✓	✓	Plastic	✓	€€€	Very flexible, ideal non flat products
AlumaMark®	✓	-	Engraving only	-	✓	Metal	✓	€€€	Like Gravoxal but with a black engraving
DuraBlack®	✓	✓	Engraving only	-	-	Metal	✓	€€€	Resist to harsh environment

Note 1 : These metals have a strong durable surface, but for harsh operating environments, use Durablack®

Note 2 : [Cut-to-size service](#) available for on-demand sized tags

*MIL-STD 130N, A-A-50271, MIL-STD-15024F, Type L, MIL-STD-810G for withstanding 96 hours of exposure to corrosive chemicals, ASTM B117 30 days exposure to salt fog.









← Back to identification

ELECTRICAL TAGS

(ELECTRICAL CABINET DOORS, STRIPS, PUSH-BUTTON, SWITCH PLATES, ...)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Gravoply™ 2	✓	-	Engraving only	✓	Plastic	Option	€€€	Large color choice at a lower price
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Very large color choice
Gravoply™ 1	✓	-	-	✓	Plastic	Option	€€€	Very resistant surface

Note 1 : [Cut-to-size service](#) available for on-demand sized tags

Note 2 : Gravoply™ 2 cannot be laser cut, but can be ordered precut and then laser engraved

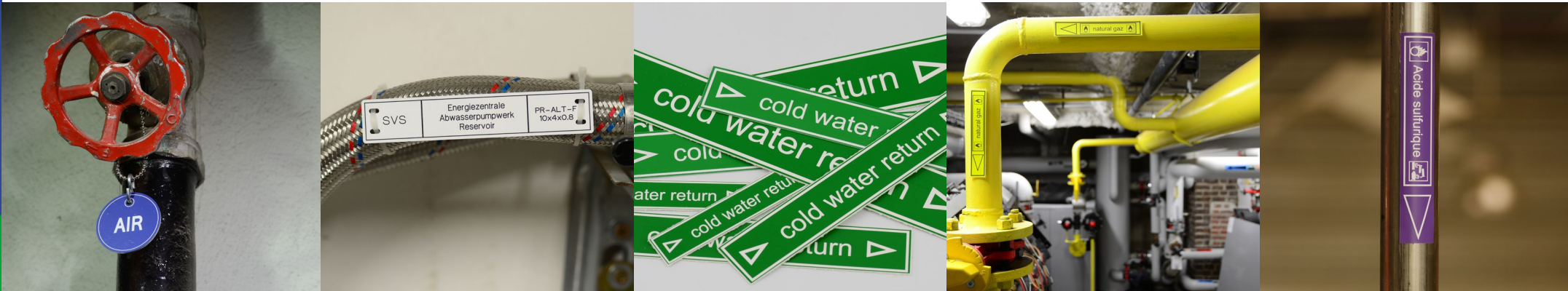
Note 3 : Metallex or Gravalase Metallics can also be used, for plastic with metallic aspect










← Back to identification

PIPES & VALVES, HVAC

(HEATING, VENTILATION & AIR-CONDITIONING)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	 UV Print	Composition	Adhesive backing	 Price
Flexilase™	✓	✓	✓	✓	✓	Plastic	✓	€€€
Gravoply™ Laser	✓	✓	✓	✓	✓	Plastic	Option	€€€
Gravoply™ 1	✓	-	-	✓	✓	Plastic	Option	€€€
Gravofoil™	✓	✓	-	✓	✓	Plastic	✓	€€€
Gravoxal™	✓	✓	Engraving only	✓	✓	Metal	Option	€€€

Note 1 : Cut-to-size service available for on-demand sized tags

Note 2 : Check the «Consumable» range for fixture offer

Material	Type of material	Laser CO2	Rotary	UV Print	Indoor	Outdoor	Machine / Rating / Name plates / Identification Plate / Ce Plates...	Electrical tags	Pipes and valves HVAC (Heating, Ventilation and Air-Conditioning)
Gravoply™ Laser	Plastics	✓	✓	✓	✓	✓	✓	✓	✓
Gravoply™ Ultra	Plastics	✓	✓	✓	✓	✓	✓	✓	✓
Gravoply™ 2	Plastics	✓	✓	✓	✓		✓	✓	✓
Gravoglas™ 1	Acrylics	✓	✓	✓	✓	✓			
Acrylic	Acrylics	✓	✓	✓	✓	✓			
Gravotac™ Exterior	Plastics	✓	✓	✓	✓	✓			
Flexilase™	Plastics	✓	✓	✓	✓		✓		✓
Stickalase™	Plastics	✓		✓	✓		✓		
Gravostrat™	Stratified	✓	✓	✓	✓			✓	
Rubbalase™	Rubber	✓			✓				
Laser Wood	Wood	✓	✓	✓	✓				
Gravoply™ 1	Plastics		✓	✓	✓		✓	✓	✓
Gravoply™ 3C	Plastics		✓	✓	✓				
Gravofoil™	Plastics		✓	✓	✓	✓	✓		✓
Gravoglas™ 2-Plex Surface	Plastics		✓	✓	✓	✓			✓
Gravoglas™ 2-Plex Subsurface	Plastics		✓	✓	✓	✓			
Gravotac™	Plastics		✓	✓	✓				
Gravolase™ Metallics	Metallics	✓	✓	✓	✓	✓			
Metallex™	Metallics	✓	✓	✓	✓				
Gravostral™	Stratified		✓	✓	✓				
Gravoxal™	Metallics	✓	✓	✓	✓	✓	✓	✓	✓
Gravobrass™ Exterior	Metallics		✓	✓	✓	✓			
Gravometall™	Metallics		✓	✓	✓				
Colored Aluminum	Metallics		✓		✓		✓		
AlumaMark®	Metallics	✓		✓	✓		✓		
DuraBlack®	Metallics	✓			✓	✓	✓		



PERSONALIZATION

The personalization consists in sublimating and personalizing products in stores, during events or on e-commerce sites for example. It includes: the personalization of key rings, medals, trophies, small plates, military plates, stamps...



SUMMARY

PERSONALIZATION - APPLICATION DATASHEETS

Military plates	31
Trophy plates, sport tags	32
Medals, key rings, tags	33
Funeral plaques, urn plates	34
Rubber stamps	35

[← Back to summary](#)

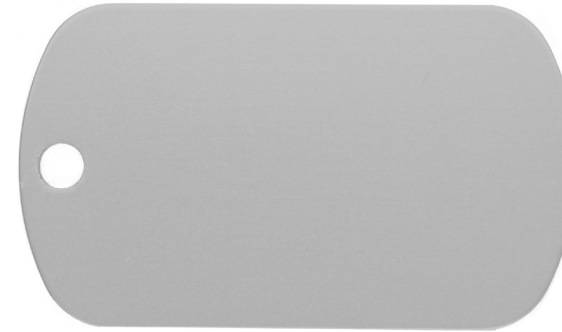
Click on the application to access to the datasheet.







[Personalization material selection guide →](#)



← Back to personalization

MILITARY PLATES



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
DuraBlack®	✓	✓	Engraving only	-	Metal	✓	€€€	Resist to harsh environment
Gravoxal™	✓	✓	Engraving only	✓	Metal	Option	€€€	Different colors and thicknesses available

Note 1 : DuraBlack® resists to harsh envt: UV, abrasion, high temperatures, salt spray and chemical exposure. It meets several government, industrial and military specifications*

Note 2 : Cut-to-size service available for on-demand sized tags







*MIL-STD 130N, A-A-50271, MIL-STD-15024F, Type L, MIL-STD-810G for withstanding 96 hours of exposure to corrosive chemicals, ASTM B117 30 days exposure to salt fog.



← Back to personalization

TROPHY PLATES, SPORT TAGS



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Gravolase™ Metallics	✓	-	✓	✓	Plastic	Option	€€€	Metallic aspect
Flexilase™	✓	✓	✓	✓	Plastic	✓	€€€	Curved: can be stuck on a cup
Metallex™	✓	-	Engraving only	✓	Plastic	Option	€€€	Metallic aspect at a low price (no laser cutting)
Gravometal™	✓	-	-	✓	Metal	Option	€€€	Gold & silver, varnished
Colored Aluminum	✓	-	-	✓	Metal	Option	€€€	Can also be cut with a guillotine

Note : [Cut-to-size service](#) available for on-demand sized tags










← Back to personalization

MEDALS, KEY RINGS, TAGS

(LUGGAGE TAGS, SMALL PLATES)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	 UV Print	Composition	Adhesive backing	 Price
Gravoply™ Laser	✓	✓	✓	✓	✓	Plastic	Option	€€€
Laser Wood	✓	-	✓	✓	✓	Wood	-	€€€
Gravoply™ 1	✓	-	-	✓	✓	Plastic	Option	€€€
Gravoglas™ 2-Plex™ Surface	✓	✓	-	✓	✓	Plastic	Option	€€€
Gravoxal™	✓	✓	Engraving only	✓	✓	Metal	Option	€€€

Note 1 : Plastic, aluminium or wood, choose from our material selection according to the requested design

Note 2 : Cut-to-size service available for on-demand sized tags



FUNERAL PLAQUES, URN PLATES



Material	Indoor	Outdoor	Laser	Rotary	UV Print	Composition	Adhesive backing	Price
Gravolase™ Metallics	✓	✓	✓	✓	✓	Plastic	Option	€€€
Gravofoil™	✓	✓	-	✓	✓	Plastic	✓	€€€
Gravoglas™ 2-Plex™ Surface	✓	✓	-	✓	✓	Plastic	Option	€€€
Metallex™	✓	-	Engraving only	✓	✓	Metal	Option	€€€

Note 1 : Gravolase Metallics™ and Metallex™ are very good choices for their gold and silver colours










Note 2 : Cut-to-size service available for on-demand sized tags



← Back to personalization

RUBBER STAMPS



 Material	 Indoor	 Outdoor	 Laser	 Rotary	 UV Print	Composition	Adhesive backing	 Price
Rubbalase™		-		-	-	Rubber	-	€€€

- Natural rubber
- Grey colour
- Thickness 2,2 mm (0,87")
- Sold in sheets A4 size 297 mm x 210 mm (11,7" x 8,3")
- Exclusively for lasering with CO2 laser engraving machines to create inking stamps
- The hardness of elastomers is measured on scale «Shore A : Rubbalase™ is measured at 60 «Shore A»
- [Cut-to-size service](#) available for on-demand sized tags

Material	Type of material	Laser CO2	Rotary	UV Print	Indoor	Outdoor	Military plates	Trophy plates / Sport tags	Medals / Key rings / Tags	Funeral plaques / Urn plates	Rubber stamps
Gravoply™ Laser	Plastics	✓	✓	✓	✓	✓		✓	✓		
Gravoply™ Ultra	Plastics	✓	✓	✓	✓	✓		✓	✓		
Gravoply™ 2	Plastics	✓	✓	✓	✓			✓	✓		
Gravoglas™ 1	Acrylics	✓	✓	✓	✓	✓			✓	✓	
Acrylic	Acrylics	✓	✓	✓	✓	✓			✓		
Gravotac™ Exterior	Plastics	✓	✓	✓	✓	✓					
Flexilase™	Plastics	✓	✓	✓	✓			✓		✓	
Stickalase™	Plastics	✓		✓	✓			✓			
Gravostrat™	Stratified	✓	✓	✓	✓						
Rubbalase™	Rubber	✓			✓						✓
Laser Wood	Wood	✓	✓	✓	✓				✓		
Gravoply™ 1	Plastics		✓	✓	✓				✓		
Gravoply™ 3C	Plastics		✓	✓	✓						
Gravofoil™	Plastics		✓	✓	✓	✓				✓	
Gravoglas™ 2-Plex Surface	Plastics		✓	✓	✓	✓			✓	✓	
Gravoglas™ 2-Plex Subsurface	Plastics		✓	✓	✓	✓					
Gravotac™	Plastics		✓	✓	✓						
Gravolase™ Metallics	Metallics	✓	✓	✓	✓	✓		✓		✓	
Metallex™	Metallics	✓	✓	✓	✓			✓		✓	
Gravostral™	Stratified		✓	✓	✓				✓		
Gravoxal™	Metallics	✓	✓	✓	✓	✓	✓		✓		
Gravobrass™ Exterior	Metallics		✓	✓	✓	✓					
Gravometal™	Metallics		✓	✓	✓			✓		✓	
Colored Aluminum	Metallics		✓		✓			✓			
AlumaMark®	Metallics	✓		✓	✓						
DuraBlack®	Metallics	✓			✓	✓	✓				



CREATIVE

Creative includes the cutting and assembly of materials for the creation and design of objects and media. It includes: the manufacture of promotional objects, prototyping and the manufacture of models, the creation of trophies and awards, fashion accessories and decoration...



SUMMARY

CREATIVE - APPLICATION DATASHEETS

Visual communication, promotional items	39
Architectural models & hobbies	40
Trophy & awards	41
Stationery, scrapbooking	42
Mode & accessories	43
Craft	44
Tableware	45
Stencils, decorative stickers	46

[← Back to summary](#)

Click on the application to access to the datasheet.

[Creative material
selection guide →](#)

VISUAL COMMUNICATION, PROMOTIONAL ITEMS

(GOODIES, GIFTS, SOUVENIRS)



Material	Indoor	Outdoor	Laser	Rotary	Composition	Adhesive backing	Price	Main asset
Acrylic	✓	✓	✓	✓	Plastic	x	€€€	Versatility
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Very large color choice
Laser Wood	✓	-	✓	✓	Wood	x	€€€	Eco-friendly, natural
Gravoglas™ 2-Plex Subsurface	✓	✓	-	✓	Plastic	Option	€€€	
Metallex™	✓	-	Engraving only	✓	Metal	Option	€€€	Metallic aspect at a low price (no laser cutting)

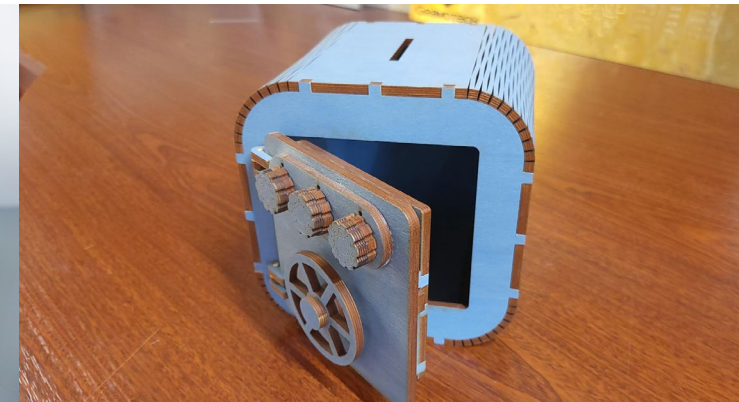
Note 1 : Many thicknesses, colours and finishes for any craft







Note 2 : Mix different materials together for a creative result



← Back to creative

ARCHITECTURAL MODELS & HOBBIES



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Laser Wood	✓	-	✓	✓	Wood	x	€€€	Ecofriendly & natural
Acrylic	✓	✓	✓	✓	Plastic	x	€€€	Versatility

- Natural plywood, ideal wood for models
- 4 essences and different thicknesses: birch in 1 mm (3/64"), 2.5 mm (3/32"), 4.5 mm (11/64"), and beech, oak, walnut in 2.5 mm (3/32") and 4.5 mm (11/64")
- Apply masking paper (ref. 83057/45897 in the US) on the wood to avoid soiling from dust and fumes during CO2 lasering
- Hold the wood flat on the honeycomb table using clamps (ref. 83366)



← Back to creative

TROPHY & AWARDS (CUTTING & ENGRAVING)



Material	Indoor	Outdoor	Laser	Rotary	Composition	Adhesive backing	Price	Main asset
Acrylic	✓	✓	✓	✓	Plastic	x	€€€	Versatile
Gravoglas™ 1	✓	✓	✓	✓	Plastic	Option	€€€	Can be paint filled
Laser Wood	✓	-	✓	✓	Wood	x	€€€	Eco-friendly, natural
Gravolase™ Metallics	✓	✓	✓	✓	Plastic	Option	€€€	Metallic aspect
Metallex™	✓	-	Engraving only	✓	Metal	Option	€€€	Metallic look at a low price (no laser cutting)

Note 1 : Clear Acrylic is a real alternative to glass

Note 2 : Mix different materials together for a unique realisation!









← Back to creative

STATIONERY, SCRAPBOOKING

(GREETING CARDS, POST CARDS, BUSINESS CARDS)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Laser Wood	✓	-	✓	✓	Wood	x	€€€	Eco-friendly, natural
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Large color choice
Gravoply™ 2	✓	-	Engraving only	✓	Plastic	Option	€€€	Large color choice, no laser cutting
Flexilase™	✓	✓	✓	✓	Plastic	Option	€€€	Flexible: ideal for stickers

Note : Engrave, cut, assembly... flexible or thick and rigid, one side or double-sided, with or without adhesive backing, coloured or natural, plain colours or metallic aspect... limitless creations!









← Back to creative

MODE & ACCESSORIES

(JEWELLERY, CLOTHES, LEATHER GOODS...)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Laser Wood	✓	-	✓	✓	Wood	x	€€€	Eco-friendly, natural
Gravoglas™ 1	✓	✓	✓	✓	Plastic	Option	€€€	Large color choice, can be paint filled
Acrylic	✓	✓	✓	✓	Plastic	Option	€€€	Different aspects available
Gravobrass™ Exterior	✓	✓	-	✓	Metal	Option	€€€	Premium crafts, can be paint filled
Gravometal™	✓	-	-	✓	Metal	Option	€€€	Premium crafts, can be paint filled

Note 1: Wood, plastic or metal according to the need and requested design

Note 2: Laser engraving and cutting with Gravoglas™ 1, Acrylic and Laser Wood ranges



← Back to creative

CRAFT

(DECORATIVE ITEMS: PHOTO FRAME, CLOCK, BOARD GAME, PUZZLES)



Material	Indoor	Outdoor	Laser	Rotary	Composition	Adhesive backing	Price	Main asset
Acrylic	✓	✓	✓	✓	Plastic	x	€€€	Different aspects available
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Value for money
Gravoglas™ 1	✓	✓	✓	✓	Plastic	x	€€€	Large color choice, can be paint filled
Laser Wood	✓	-	✓	✓	Wood	x	€€€	Ecofriendly, natural
Colored Aluminum	✓	-	-	✓	Metal	Option	€€€	Premium craft

Note 1 : Laser Wood and Acrylic are ideal materials for this kind of crafts

Note 2 : Mix the materials together to multiply the creative possibilities!









← Back to creative

TABLEWARE

(CENTERPIECE, MENU DISPLAY, SEATING PLAN, NAME TAGS)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price	Main asset
Laser Wood	✓	-	✓	✓	Wood	-	€€€	Ecofriendly, natural
Gravoply™ Laser	✓	✓	✓	✓	Plastic	Option	€€€	Value for money
Gravoply™ 2	✓	-	Engraving only	✓	Plastic	Option	€€€	Large color choice
Acrylic	✓	✓	✓	✓	Plastic	-	€€€	Different aspects available
Metallex™	✓	-	Engraving only	✓	Plastic	Option	€€€	Metallic look at a low price (no laser cutting)

Note 1 : Laser Wood 0.4 mm (1/16") can be used for flexible crafts

Note 2 : Birch Laser Wood for a natural look or metallic aspect plastics for a luxury look



STENCILS, DECORATIVE STICKERS



Material	Indoor	Outdoor	Laser	Rotary	Composition	Adhesive backing	Price	Main asset
Flexilase™	✓	✓	✓	✓	Plastic	✓	€€€	More colors
Stickalase™	✓	-	✓	-	Plastic	✓	€€€	Thinner, adapt to any surface

Note 1 : Flexilase™ is 0.25 mm (.01") and Stickalase™ 0.09 mm (.004")

Note 2 : Stickalase™ is available in black/white and silver/black. For a larger choice in plain colours or metallic colours, choose Flexilase™



MANUFACTURING

Manufacturing consists of using a material to create/transform a product: engraving, cutting, drilling, machining. It includes: control panels, front panels...



SUMMARY

MANUFACTURING - APPLICATION DATASHEETS

Cutting of basic shapes	50
Front panels, control panels	51
Scales & dials	52
Flow summary chart, synoptic	53

[← Back to summary](#)

Click on the application to access to the datasheet.

[Manufacturing material selection guide →](#)










← Back to manufacturing

CUTTING OF BASIC SHAPES

(INSULATOR PLATES, SPACERS, PROTECTIVE FRAMES)



 Material	 Indoor	 Outdoor	 Laser	 Rotary	 UV Print	Composition	Adhesive backing	 Price
Acrylic	✓	✓	✓	✓	✓	Plastic	-	€€€
Gravoxal™	✓	✓	Engraving only	✓	✓	Metal	Option	€€€
Ecocut	✓	-	-	✓	✓	Plastic	-	€€€
Ecocut Laser	✓	✓	✓	✓	✓	Plastic	-	€€€








Note 1 : Cut-to-size service available for on-demand sized tags

Note 2 : Ecocut & Ecocut Laser do not have a neat surface finish, only use for cutting application when surface state does not matter



FRONT PANELS, CONTROL PANELS

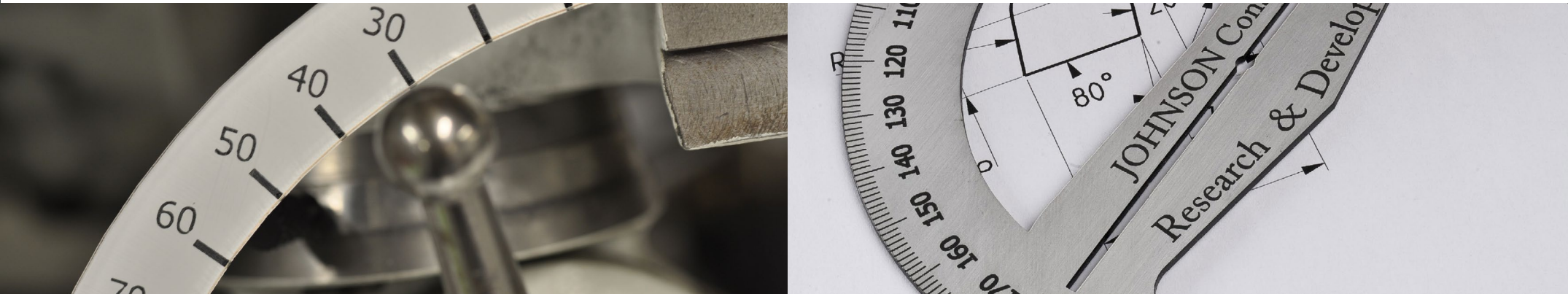








						Composition	Adhesive backing	
	Material	Indoor	Outdoor	Laser	Rotary			Price
	Gravoglas™ 2-Plex™ Surface	✓	✓	-	✓	Plastic	Option	€€€
	Gravoglas™ 1	✓	✓	✓	✓	Plastic	Option	€€€
	Gravoxal™	✓	✓	Engraving only	✓	Metal	Option	€€€

Note 1 : Cut-to-size service available for on-demand sized tags



SCALES & DIALS



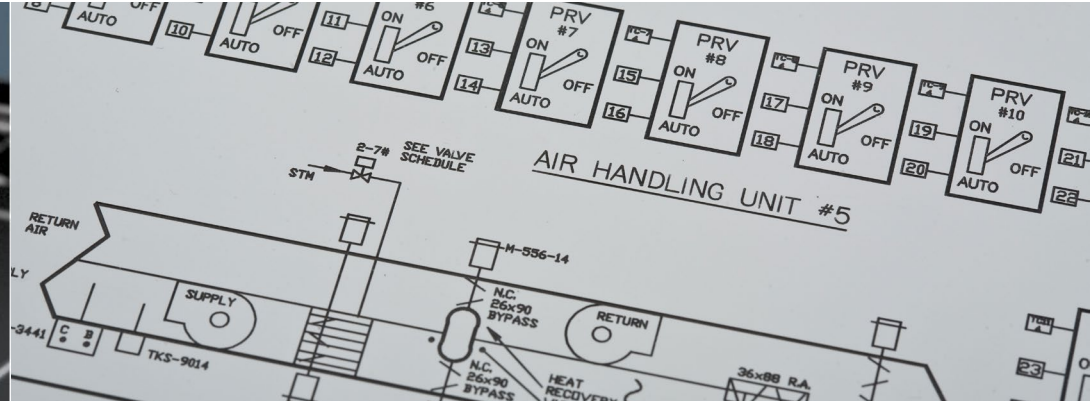
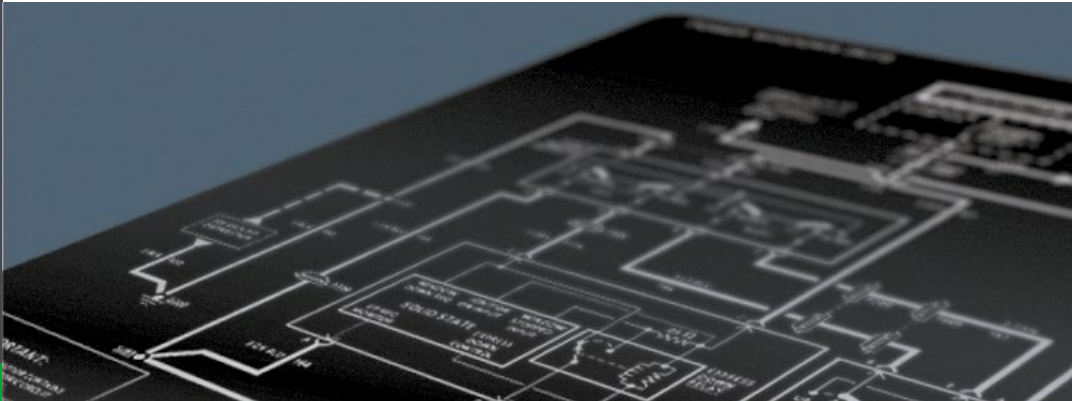
 Material	 Indoor	 Outdoor	 Laser	 Rotary	Composition	Adhesive backing	 Price
Gravoglas™ 2-Plex™ Subsurface	✓	✓	-	✓	Plastic	Option	€€€
Gravoglas™ 1	✓	✓	✓	✓	Plastic	Option	€€€
Gravoxal™	✓	✓	Engraving only	✓	Metal	Option	€€€
AlumaMark®	✓	-	Engraving only	-	Metal	✓	€€€
DuraBlack®	✓	✓	Engraving only	-	Metal	✓	€€€








Note : [Cut-to-size service](#) available for on-demand sized tags





FLOW SUMMARY CHART, SYNOPTIC

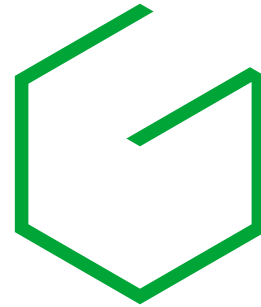


 Material	 Indoor	 Outdoor	 Laser	 Rotary	 UV Print	Composition	Adhesive backing	 Price
Gravoply™ 2	✓	-	Engraving only	✓	✓	Plastic	Option	€€€
Gravoply™ Laser	✓	✓	✓	✓	✓	Plastic	Option	€€€
Gravoxal™	✓	✓	Engraving only	✓	✓	Metal	Option	€€€
DuraBlack®	✓	✓	Engraving only	-	-	Metal	✓	€€€

Note : [Cut-to-size service](#) available for on-demand sized tags



Material	Type of material	Laser CO2	Rotary	UV Print	Indoor	Outdoor	Cutting of basic shapes (insulator plates, spacers)	Front panels / Control panels	Scales and dials	Flow summary chart / Synoptic Scrapbooking
Gravoply™ Laser	Plastics	✓	✓	✓	✓	✓		✓	✓	✓
Gravoply™ Ultra	Plastics	✓	✓	✓	✓	✓		✓		✓
Gravoply™ 2	Plastics	✓	✓	✓	✓			✓		✓
Gravoglas™ 1	Acrylics	✓	✓	✓	✓	✓		✓	✓	
Acrylic	Acrylics	✓	✓	✓	✓	✓	✓			
Gravotac™ Exterior	Plastics	✓	✓	✓	✓	✓				
Flexilase™	Plastics	✓	✓	✓	✓				✓	
Stickalase™	Plastics	✓		✓	✓					
Gravostrat™	Stratified	✓		✓	✓					
Rubbalase™	Rubber	✓			✓					
Laser Wood	Wood	✓		✓	✓					
Gravoply™ 1	Plastics			✓	✓					
Gravoply™ 3C	Plastics			✓	✓					
Gravofoil™	Plastics			✓	✓	✓				
Gravoglas™ 2-Plex Surface	Plastics			✓	✓	✓		✓		
Gravoglas™ 2-Plex Subsurface	Plastics			✓	✓	✓			✓	✓
Gravotac™	Plastics			✓	✓					
Gravolase™ Metallics	Metallics			✓	✓	✓				
Metallex™	Metallics			✓	✓					
Gravostral™	Stratified			✓	✓					
Gravoxal™	Metallics			✓	✓	✓	✓	✓	✓	✓
Gravobrass™ Exterior	Metallics			✓	✓	✓				
Gravometall™	Metallics			✓	✓					
Colored Aluminum	Metallics				✓					
AlumaMark®	Metallics			✓	✓			✓	✓	
DuraBlack®	Metallics				✓	✓			✓	✓



GRAVOTECH

E X P R E S S I O N O F T H I N G S