

SUMMARY















SUMMARY – CORPORATE











CONSTRUCTION MARKET



ANNEXES



PURPOSE







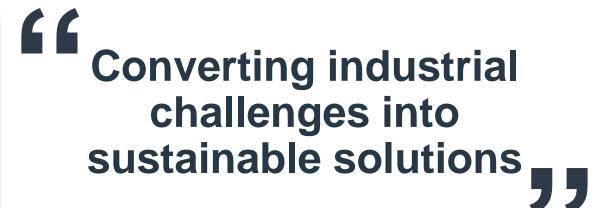
















VISION

► Wherever innovative materials are key, we deliver solution design, converting and services.

Our human values drive our entrepreneurial, international and responsible growth project.























MISSION

▶ We combine our expertise in advanced materials (tapes, films, adhesives and chemicals) and our converting knowledge to enhance the industrial and supply chain performance of our customers As a partner of choice of world-class manufacturers, with the strength of our market knowledge, we design customized value-added solutions to satisfy our customers technical challenges



















WHO ARE WE?

















650



180m



15 industrial companies





We are member of La French Fab, Coq Vert (Eco label) and many other international expert professional networks





TIKEHAU Capital & BPI France are investors as partner of our transformation and development

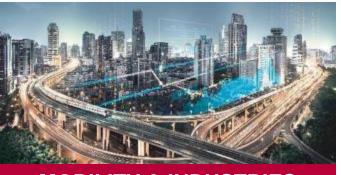
STRATEGIC MARKETS

3 business groups to address our main strategic markets



AEROSPACE & DEFENSE

- Aeronautics
- ▶ Space
- Defense
- ► MRO



MOBILITY & INDUSTRIES

- ► Railway
- ► Automotive
- ▶ Power
- ► Construction
- ▶ Industries



HEALTHCARE & HYGIENE

- ▶ Medical supplies
- ► Medical devices
- ➤ Professional hygiene
- ▶ Personal care

















EXPERTISE

ADDEd Value on MATERIALS

- **EXPERT DISTRIBUTION**
- ► CONVERTING OF FILMS & ADHESIVE SOLUTIONS
- ► CUSTOM PACKAGING OF CHEMICAL **PRODUCTS**
- ▶ SPECIALTY **MANUFACTURING**

ADHESIVE TAPES



ADHESIVES & SEALANTS



FOAMS



CHEMICALS



TECHNICAL FILMS



COATINGS



PAPERS & **FIBERS**





PAINTS



















PROCESS

FUNCTIONALIZATION

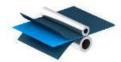
- ► Lamination (Liquid adhesive) / Coating
- Lamination (Adhesive tapes)
- ▶ Surface treatment

CUSTOM CUTTING

- Roll form cutting
- Die cutting
- Sheetings

SPECIAL PROCESS FOR MATERIALS

- ► Forming / Folding
- ▶ Ultrasonic welding
- Machining





















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FORMULATION

- ► Surface treatment products
- ► Cleaning products / disinfectants
- ► Other chemical products

CUSTOM PACKAGING

- Chemical repackaging
- ► Custom packaging

SPECIAL PROCESS FOR LIQUIDS

- Premix
- Dyeing
- Impregnation



















SUMMARY – MOBILITY & INDUSTRIES











CONSTRUCTION MARKET

INDUSTRIES MARKET

ANNEXES



M&I ORGANIZATION

 ADDEV Materials is specialized in the converting and distribution of high-performance materials for Mobility markets (Railway, Automotive) as well as Power, Construction & Industries markets.



- EXTERNAL STRUCTURE
- ENGINE
- CABIN INTERIOR
- INFRASTRUCTURES & SIGNAGES



- EXTERIOR & EXTERNAL STRUCTURE
- ENGINE
- INTERIOR & ELECTRONICS
- SPECIAL VEHICLES



- POWER GENERATION
- POWER TRANSPORT & STORAGE
- POWER DISTRIBUTION



- EXTERIOR STRUCTURE
- INTERIOR DESIGN
- ENERGY PERFORMANCE
- CONTROLLED ENVIRONMENTS



- INDUSTRIAL EQUIPMENTS
- CONSUMER GOODS
- SPECIALTY INDUSTRIES

















M&I SOLUTIONS: Combination of materials & converting expertise

 Thanks to our technical expertise in high performance materials, combined with our converting capabilities, we offer customized solutions to face industrial challenges of Mobility & Industries market players

	FLEXIBLE MATERI	ALS	RIGIDE N	IATERIALS	LIQUID M	1ATERIALS
			.0000	W		
CORE RANGES	TECHNICAL FILMS, I ADHESIVE TAPES	FOAMS	COMPOSITES	SLEEVES & TUBES	RESINS & VARNISHES	ADHESIVES & SEALANTS
DEDICATED CONVERTING CAPACITIES	FUNCTIONALIZATION OF MATERIALS ADHESIVE COATING / COMPLEXING LAMINATING / COATING SURFACE TREATMENTS	CUSTOM CUT ON-ROLL CU DIE CUTTING SHEETING	JTTING	CIAL PROCESS FOR MATE SKIVING (for foams) ULTRASONIC WELL MACHINING	DING	M PACKAGING CUSTOM CACKAGING









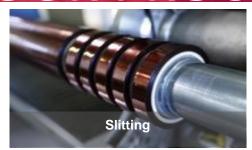






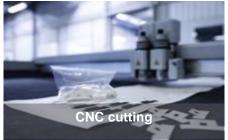


OUR PROCESS





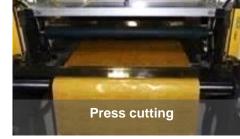














































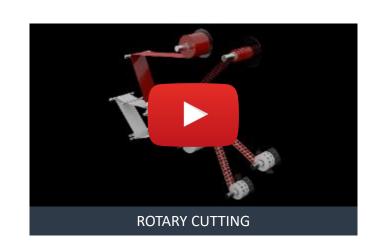




OUR PROCESS IN VIDEO























ADDED VALUE SERVICES

 We have developed a range of value-added services to better meet the needs of our market players across the value chain, from product development to supply chain optimization.



























TECHNICAL EXPERTISE

CO-DEVELOPMENT

- Team of technical experts
- Selection of the appropriate materials & processes
- Elaboration of the best solution

INNOVATION & DEVELOPMENT

CO-DEVELOPMENT

- Study & testing
- Prototyping/proof of concepts
- Product development
- Collaborative projects

PROTOTYPING

TESTING

- Possibility to offer prototyping solutions
- Produce parts using the same materials as those used for the final product

KITTING

OPTIMIZATION

- Assembly & shipping kits of your various components
- Optimization of the supply flows of your production lines.

INTERNATIONAL **FOOTPRINT**

FOOTPRINT

- Strong implementation in Europe & North America
- Proximity & delivery reactivity

CUSTOMERS PORTALS

DIGITAL

- Register into your customer order portal to optimize your internal process
- Orders follow-up from our own portal

INTERNATIONAL FOOTPRINT



















SUMMARY - RAILWAY











CONSTRUCTION MARKET

INDUSTRIES MARKET

ANNEXES



FLEXIBLE MATERIALS

RAILWAY - MATERIALS BY APPLICATION



ELECTRICAL



SURFACE







MECHANICAL



THERMAL



VIBRATION,

FRICTION &





IVIAI ERIALS	INSULATION	PROTECTION	ASSEMBLING	SEALING	FASTENING	MANAGEMENT	NOISE MANAGEMENT	WARRING
Technical films, laminates & papers Nomex®/Nomex® store, Presspahn ladders & stores, Meta aramid non-woven, Kapton®, Nokamex, Formex®, Tedlar®, PET, Kraft	•	•				•		
Adhesive tanes								







Assembly tapes, Masking tapes, Electrical insulation tapes, Grip tapes, EMI shielding tapes

MATERIALS





Composites

Thermosets, Silicone glass, Polyimide glass, Polyester glass mat , Thermoplastics

•		



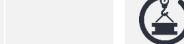
Electromagnetic shielding, Electrical insulation, Mechanical protection, Self-extinguishing

•		•



Resins & Sealants

Mono-component sealant (Polyurethane, Silicone, MS Polymer, Butyl); Electrical resin (Epoxy)



Paints & coatings

Uni Primer, Etokat Aqua Primer, Etokat Aqua DS, Colortar Aqua, Socogel



Adhesives

Mono-component (anaerobic, cyanoacrylate, hotmelt, epoxy); Bi-components adhesives (Epoxy, acrylic, silicone)







RAILWAY - SOLUTIONS



THERMAL MANAGEMENT

- On board electronics
- Electric systems
- **HVAC** systems
- Walls

Solutions: Adhesives, Thermal pads, Foams, Glass wool



ELECTRICAL INSULATION

- On board electronics
- Transformers
- Converters
- Traction motors
- Electric systems

Solutions: Films, Adhesive Tapes, Foams, Composites, Sleeves, Resins



SEALING

- HVAC systems
- Cabin interiors
- Headlights

Solutions: Adhesive tapes, Foams, Adhesives, Sealants



MARKING

- Digital & non digital display signages
- Safety labels
- Floor markings

Solutions: Adhesive tapes





















FLOORING

Adhesive bonding of:

- Carpets
- Linoleums
- Safety walks

Solutions: Adhesive tapes, Adhesives



SURFACE TREATMENTS & PROTECTION

- Exterior surface treatments
- Finishing car body wrapping
- Cables wrapping
- Windows glasses
- Traction motors
- **HVAC** systems





- Transformers
- Converters

Solutions: Composites





- Traction motors
- **HVAC** systems
- ceilings, metal panels





- Walls, floors, roofs, doors,

Solutions: Adhesive tapes, Dual lock, VHB®, Foams, Resins



ASSEMBLING

Cabin furnitures bonding & strengthening:

- Door sealings
- Seats
- Tables
 - Mirrors
- Door handles
- Lightings Signages

Solutions: Adhesive tapes, Foams, Adhesives











- Armrests, tables, windows, grab bars, restrooms

Solutions: Films, Adhesive Tapes, Composites, Sleeves, **Resins, Paints & Coatings**

RAILWAY - VIDEO



















SUMMARY – AUTOMOTIVE



















AUTOMOTIVE - MATERIALS BY APPLICATION



















	MATERIALS	ELECTRICAL INSULATION & CONDUCTIVITY	THERMAL MANAGEMENT	ASSEMBLY	EMI SHIELDING	FIRE PROTECTION	VIBRATION MANAGEMENT	SEALING	TEMPORARY PROTECTION
	Technical films, laminates & papers <i>Kaptorl</i> ®, <i>Nomex</i> ®, <i>Laminates (Alu, PET, copper, NMN, NKN), Mica</i> ®, <i>Protective films, Heatfilm</i> ®	•	•		•	•			•
ENIALS	Adhesive tapes Adhesive tapes for : Electrical insulation & conductivity, Thermal insulation & conductivity, Assembly, Masking, Sealing, EMI shielding, Thermal pads	•	•	•	•	•		•	•
I DEE IVIA	Foams Cushioning foams, Insulation foams, Anti-vibration foams, Silicone foams, PU foams, Low sulfur/VOC foams	•	•	•	•	•	•	•	•
LEV	Sleeves Flame-retardant sleeves (Silicone & reflective fiberglass), Mechanical protection sleeves, EMI shielding sleeves	•	•	•	•	•			
	Tubes NKN / NMN laminated tubes, Heat-shrinkable tubes, PTFE, PET & Nomex [®] tubes	•	•		•	•			
MATERIALS	Resins & Varnishes Resins : Electrical resins, Impregnating resins, Casting & Potting resins Varnishes	•	•		•	•	•	•	
MAT	Adhesives & Sealants Adhesives: One or two-component epoxy, Cyanoacrylate Sealants: MS Polymer, silicone, PU, Gap fillers	•	•	•	•			•	















AUTOMOTIVE – SOLUTIONS

ELECTRONICS

- Display systems
- **Electrical systems**
- Electronics control units
- Data cables

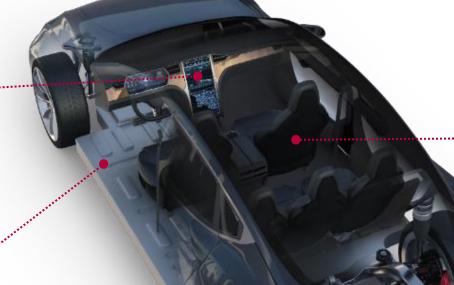
Applications:











INTERIOR

- Trim panels & door pillars
- **HVAC** systems
- Starters, inverters, fuel lines
- Lighting
- Headliners, shades, sunroofs

Applications: 7 8 8 8 8

















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EXTERIOR & VEHICLE STRUCTURE

- Chassis
- **Bodycar elements**
- Exterior trim mounting components
- Lighting
- Cameras & sensors

Applications: 7 6 0 0













- Electric motors
- **Batteries**

















SUMMARY – POWER











CONSTRUCTION MARKET

industries market

ANNEXES



POWER - MATERIALS BY APPLICATION

ADDEV Materials is able to provide converting & custom packaging solutions for the whole power products' range.





























	MATERIALS	ELECTRICAL INSULATION	THERMAL MANAGEMENT	CABLE INSULATION & ASSEMBLY	ELECTROMAGNETIC SHIELDING	MECHANICAL REINFORCEMENT	FIRE PROTECTION	ENVIRONMENTAL CONSTRAINTS PROTECTION
ALS	Technical films, laminates & papers Nomex®, PET, Kapton®, Thermex, Mylar®, Tedlar®, Lexan®, Nokamex, Formex®	•	•	•	•	•	•	•
E MATERIALS	Adhesive tapes Electrical insulation tapes, assembly tapes, packaging/closure tapes, masking tapes, EMI shielding tapes, adhesive pads	•	•	•	•	•	•	•
FLEXIBLE	Non-adhesive foams PU, Silicon, & EPDM foams	•	•				•	
	Sleeves & Tubes Polyimide (Kapton®) tubes / Heat-shrinkable tubes / PET (Mylar®) tubes/ Customized tubes / Insulating sleeves	•	•	•	•	•	•	•
LIQUID	Resins & Varnishes Mono-component: PU & thermosetting resins Bi-component: removable encapsulation, epoxy & PU	•	•			•	•	•
LIQ	Adhesives Mono-component: Cyanoacrylate, silicone, hotmelt, UV Bi-component: epoxy, acrylic					•		
RIGIDE	Composites Complete kits (screws, nuts, washers, slot, wedges) / Glass mat epoxy parts / Resins covering	•	•			•	•	•

POWER - SOLUTIONS

As technical experts, we offer customized solutions for the main applications of the power market from power generation to power distribution:







Cable insulation & assembly



Fire protection



Mechanical reinforcement



EMI shielding









Power plants **@@**@()()

Generators **79 - 10 (1) (3)**

Windmills

Photovoltaic panels





POWER TRANSPORT & STORAGE



Cables





Transformers



POWER DISTRIBUTION



Renewable energy Consumer goods





Building & Infrastructure Lighting

63 (1)



Mobility solutions E-Mobility & **Electronic Batteries**





















SUMMARY - CONSTRUCTION



















CONSTRUCTION – MATERIALS BY APPLICATION

ADDEV Materials is able to provide converting & custom packaging solutions for the whole construction products' range.













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	MATERIALS	SURFACE PREPARATION & PROTECTION	SEALING & GASKETING	ASSEMBLY	INSULATION MANAGEMENT	FIRE PROTECTION	ENVIRONMENTAL CONSTRAINTS PROTECTION
LLS	Adhesive tapes Electrical insulation, Assembly, Packaging/closure, Masking, Protection, Anti-adhesion, Sealing & Gasketing tapes	•	•	•	•	•	
MATERIA	Foams EPDM, PU, PE, Neoprene, PVC foams		•	•	•	•	•
FLEXIBLE MATERIALS	Technical films, laminates & papers <i>Nomex®, PET, Kapton®, Tedlar®, Laminates</i>	•			•		•
	Non-wovens Tyvek® / Non-wovens for : Thermal protection, Roofing, Siding & facade protection, Soil stabilization, Green roofs (Protech', Armat', Greenroof EZ)	•			•		•
LIQUID MATERIALS	Adhesives Mono component : Hotmelt, Cyanoacrylate, PVC, Neoprene Bi components : Methacrylate, Acrylic, Epoxy		•	•	•		
LIQUII	Sealants Mono component: PU, MS Polymer, Silicon		•	•	•		

















CONSTRUCTION – SOLUTIONS

EXTERIOR SOLUTIONS

ROOFS Waterproofing / Vegetation Thermal insulation Sound insulation Assembly Prefabricated elements

WINDOWS & DOORS

- Assembly
- Waterproofing / Sealing
- Masking
- Sound insulation
- Thermal insulation
- Anti-vibration solutions





FACADES

- Waterproofing/Sealing
- Reinforcement
- Cladding
- Assembly
- Fire protection
- Thermal insulation
- Sound insulation
- · Prefabricated elements

EXTERIOR FITTINGS

- Protection during construction
- Mulching
- Marking
- Geotextiles

INTERIOR SOLUTIONS



INTERIOR DESIGN

- Assembly
- Sound insulation
- Thermal insulation
- Fire protection



KITCHEN, STORAGE & **BATHROOMS**

- Assembly
- Sealing
- Protection of the material



HVAC

- Assembly/Fastening
- Waterproofing / Seal
- **Energy optimization**
- Thermal insulation
- Sound insulation
- Anti-mould protection

CONTROLLED ENVIRONMENTS

- Assembly / Fastening
- · Waterproofing / Sealing
- · Energy optimization
- Thermal insulation
- Sound insulation · Anti-mould protection



















SUMMARY – INDUSTRIES











CONSTRUCTION MARKET























INDUSTRIES – SOLUTIONS

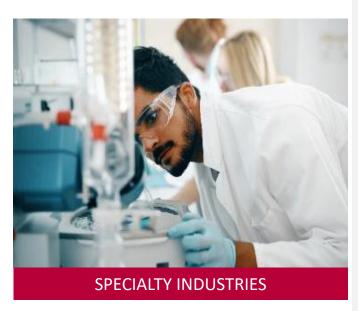
As technical experts, we offer customized solutions for many industrial applications :



- Machines frames
- Tanks & Pipes
- Global maintenance



- Leather goods
- Sports & Leisure
- Appliances





- Marine
- Security identification
- Research & development
- Paper graphics packaging

















SUMMARY – ANNEXES











CONSTRUCTION MARKET

industries market





M&I EXTERNAL COMMUNICATION TOOLS







Brochure



Webpage



Market specialist presentation





Webpage



















Webpage



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PRODUCTS SELECTION GUIDES





























LAB'INNOV





FIND MORE ABOUT OUR INNOVATIVE SOLUTIONS









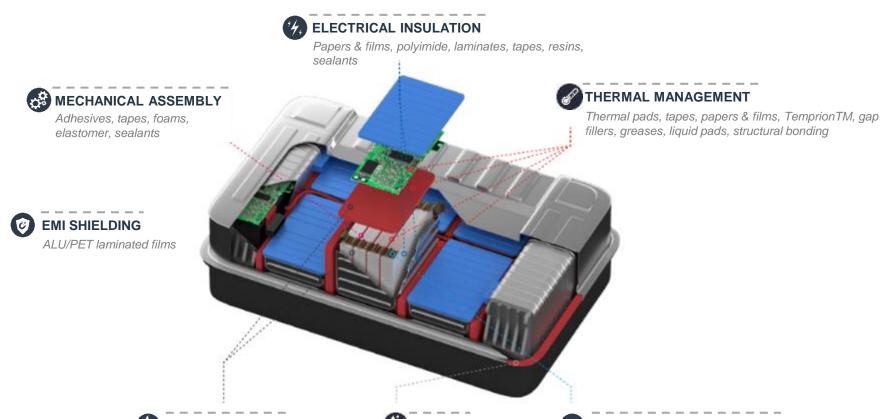








BUSINESS CASE – AUTOMOTIVE Battery management





Papers & films, mica, metaaramide ULV94 certified materials



Adhesive tapes, foams, adhesives & sealants



ELECTRICAL CONDUCTIVITY

Liquid adhesives, one - or two components epoxy, copper or aluminum laminates, transfer adhesive tapes









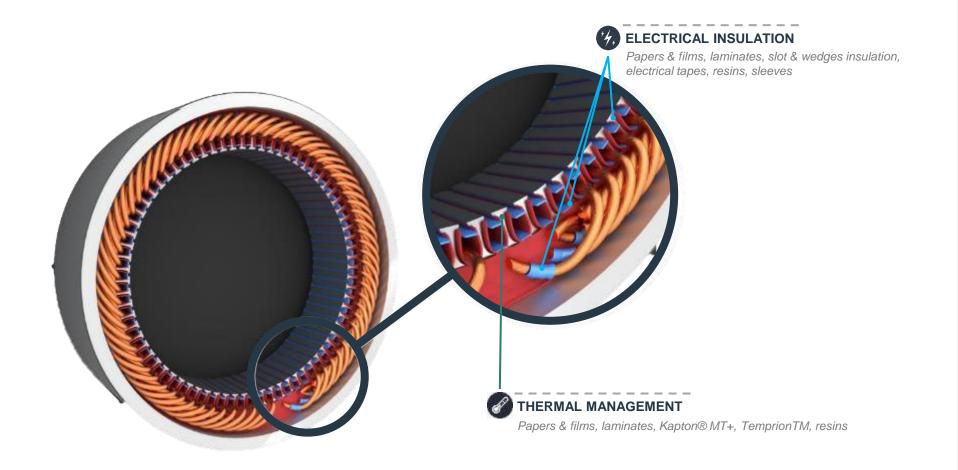








BUSINESS CASE – AUTOMOTIVE Electric motor



















BUSINESS CASES – POWER (1/2)

CUSTOMER	CUSTOMER'S BUSINESS	CUSTOMER CHALLENGE	ADDEV SOLUTION	CUSTOMER BENEFITS
OEM in LV/MV equipments	Power management devices, automation and adapted solutions	Find a solution to install devices easily without mechanical fasteners	Material : Complex part involved for material savings and ease of installation Process : Rotary die-cutting & implementation of grippers	 Easy to apply → Time saving Lighter finished product No need for mechanical fasteners → Aesthetics
OEM in transformers / coils	Power generation & transformation	Find a solution for coil damping	Material: Double-sided adhesive foam cut to size for damping coils Process: Press cutting	 Shock absorption Absorption of surface irregularities
OEM in batteries	Manufacturing of batteries for several industries	Find a solution for homogeneous & uniform heat distribution in the battery	Material: Thermal pad / Thermal pad with an adhesive tape Process: Rotary die-cutting	 Extend product life (battery & components) Provides safety from flammability risks

















BUSINESS CASES – POWER (2/2)

CUSTOMER	CUSTOMER'S BUSINESS	CUSTOMER CHALLENGE	ADDEV SOLUTION	CUSTOMER BENEFITS
OEM in electrical systems & equipments	Manufacturing of electrical equipments & systems for building & housing market	Find a solution to avoid arc overload on their circuit breaker chambers	Material: Nomex / Vulcanized fiber / Thermex for insulation Process: Press cutting & Slitting	 Productivity gains Material savings Extended product life Electrical insulation
OEM in LV/MV equipments	Power management products, automation and solutions	Searching for a solution to avoid arc overload between power supplies	Material: Polyester glass mat with insert assembled to a grooved bar with spacer (Self-extinguishing material → UL94 V0 rating) → Phase separator on the power supple to prevent arc overload Process: Machining & stamping	 Productivity gains Material savings Extended product life
Industrial OEM for renewable energy & power generation markets	Manufacturing of wind turbines, gas and steam turbines, hydroelectricity, power systems	externalize the manufacturing process for composites (threaded rods,	Materials: Manufacturing & assembly o epoxy screws, nuts, washers Process: Machining Step 2 Materials: Complete composites kits to customer's dimensions Process: Machining	 Productivity gains Simplification of customers' supply process Kitting → Turnkey solution for the customer

BUSINESS CASES – CONSTRUCTION

CUSTOMER	CUSTOMER CHALLENGE	ADDEV SC	LUTION	CUSTOMER BENEFITS
Heater manufacturer	Get an aesthetic installation of a glass panel heater		Material: Double sided high performance acrylic tape (VHB®)	 Easy to apply → Time saving Lighter finished product No need for mechanical fasteners → Aesthetics
HVAC manufacturer	Get sealing performance & antimoisture barrier	3 Sealing	one side adhesive & one side mylar film	 Tailor-made pieces → Time saving Mylar film → Adds a moisture barrier to the solution
Windows manufacturer	Prevent infiltration of insects & allow drainage	WEEP HOLE FOAM	Material: Weep hole PU foam Process: Slitting & Rotary diecutting	 Tailor-made pieces → Time saving Prevents the infiltration of insects and allows drainage

















THANKS FOR YOUR ATTENTION

www.mi.addevmaterials.com

