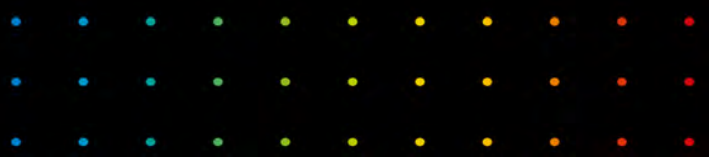




Product Range 2022 / 2023

Fastening Systems



## MBE fastening systems for rear- ventilated facades



We deliver color coated fixing systems for mounting of facade boards on metal or wooden sub-constructions.

If required, we will assist you with advice and assistance in all technical questions relating to fastening technology.

# Index

<b>TUF Fixing System</b>	<b>Page</b>	<b>FACADE SCREWS</b>	<b>Page</b>
TUF & Accessories	5	Flathead with ISR-Drive	24
	<b>Page</b>	for aluminium composite panels	
<b>Aluminium</b>		Set with screw and FA-ZE-DI Ring	25
Head 11 mm	6	Cassettes Drilling Screw	
Head 14 mm	7	for aluminium composite	26
Head 16 mm	8		
<b>Stainless Steel</b>		<b>MBE JOINT TAPE</b>	<b>Page</b>
A4 - Head 15 mm	9	EPDM Joint Tape 0,75 mm	27
		EPDM Joint Tape 1,30 mm	28
<b>MBE BLINDRIVETS</b>	<b>Page</b>	<b>BALCONY SCREWS</b>	<b>Page</b>
<b>Aluminium</b>		Set Flathead with ISR-Drive	
Flathead 9 mm	10	and Cap Nut	29
		Set Flathead with ISR-Drive	
<b>TOOLS &amp; ACCESSORIES</b>	<b>Page</b>	and Thread-Shell	30
ACCUBIRD®	11	<b>WALL PROTECTION SYSTEM</b>	<b>Page</b>
ACCUBIRD® PRO	12	Screw-Set for Solid-Walls	31
Hand Riveting Tool HN2	13		
FIREBIRD® PRO	14	<b>SLEEVES / BUSHES</b>	<b>Page</b>
Special Mouth Pieces	15	Fix Point Sleeve	32
Handle drill jig	16	Fix Point Sleeve Set's with oval drill hole	33
Single-hand-spring drill jig	17	Centering Washer for Facade and Drilling screws	34
HSS Special drill bits for sub-constructions	18		
VHM & HSS Facade board drill bits	19	<b>WINDOW-SILL-SCREWS</b>	<b>Page</b>
HSS step drill bits & depth stop	20	Screws with and without washer	35
Bits	21		
Drift Punch Tools	22	<b>TD-A4-SCREWS</b>	<b>Page</b>
Tool Box	23	TD-A4-Screws with ISR Drive	36

<b>MBE COLOR PEN</b>	<b>Page</b>
Color Pen / Touch Up Pen	37

<b>MBE SPECIAL FIXING SOLUTIONS</b>	<b>Page</b>
<b>Rivet Fixing Solutions</b>	
Design Washer	38
<b>Screwing Solutions</b>	
MBE detachable fixing	39

Our GTC's and further information can be found on our website [www.mbe-menden.de](http://www.mbe-menden.de).

## Blind fixing system TUF-S

simple and safe non visible fixing of HPL and fibrecement panels



Item Code	dimension	PU [Stück]
1900101	TUC-S-W10-6x14-A4	250
1900102	TU-S-6X11-A4	250
1900103	TU-S-6X13-A4	250
1900201	TUF-S-6X7-A4	250
1900202	TUF-S-6X7,5-A4	250
1900203	TUF-S-6X8-A4	250
1900204	TUF-S-6X8,5-A4	250
1900205	TUF-S-6X9-A4	250
1900206	TUF-S-6X10-A4	250
1900207	TUF-S-6X11-A4	250
1900208	TUF-S-6X12-A4	250
1900209	TUF-S-6X13-A4	250

### Accessories

1900301



Depth locator

1

①

1900302



VHM-drill-bit 6,0X40

1

1900303

VHM-drill-bit 6,0X40,5

1

1900304

VHM-drill-bit 6,0X41

1

1900305

VHM-drill-bit 6,0X41,5

1

1900306

VHM-drill-bit 6,0X42

1

1900307

VHM-drill-bit 6,0X42,5

1

1900308

VHM-drill-bit 6,0X43

1

1900309

VHM-drill-bit 6,0X43,5

1

1900310

VHM-drill-bit 6,0X45

1

## MBE Facade Rivet Aluminium Head Ø 11 mm with colored head

fastening of facade boards to constructions made of aluminium

Mandrel made of stainless steel

Clamping Thickness = board + sub-construction.

Drill hole Ø sub-construction: 5,1 mm.

Drill hole Ø board: see notes of the board manufacturers.

Please follow the processing instructions and standards for the chosen board material. Also make sure to pay attention to technical directions.

*Stressfree mounting can only be guaranteed by using fitting MBE special mouth piece (refer to section tools & accessories).*



Item Code	Dimension [mm]	Quality Rivet	clamping range [mm]	PU [pcs]
1290201	5 x 8	AlMg3	< 3,0	250
1290202	5 x 10	AlMg3	2,0 - 5,0	250
1290203	5 x 12	AlMg3	4,0 - 7,0	250
1290204	5 x 14	AlMg3	5,5 - 9,0	250
1290205	5 x 16	AlMg5	7,0 - 10,5	250
1290206	5 x 18	AlMg5	9,0 - 12,5	250
1290207	5 x 21	AlMg5	12,0 - 15,5	250
1290208	5 x 25	AlMg3	15,5 - 19,5	250
1290210	5 x 30	AlMg3	19,5 - 24,0	250
1290211	5 x 33	AlMg5	22,5 - 27,0	250



Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

All part available in plain stainless steel.

## MBE Facade Rivet Aluminium Head Ø 14 mm with colored head

fastening of facade boards to constructions made of aluminium

Mandrel made of stainless steel

Clamping Thickness = board + sub-construction.

Drill hole Ø sub-construction: 5,1 mm.


Drill hole Ø board: see notes of the board manufacturers.

Please follow the processing instructions and standards for the chosen board material. Also make sure to pay attention to technical directions.

*Stressfree mounting can only be guaranteed by using fitting MBE special mouth piece (refer to section tools & accessories).*



Item Code	Dimension [mm]	Quality Rivet	clamping range [mm]	PU [pcs]
1290401	5 x 8	AlMg3	< 3,0	250
1290402	5 x 10	AlMg3	2,0 - 5,0	250
1290403	5 x 12	AlMg3	4,0 - 7,0	250
1290404	5 x 14	AlMg3	5,5 - 9,0	250
1290405	5 x 16	AlMg5	7,0 - 10,5	250
1290406	5 x 18	AlMg5	9,0 - 12,5	250
1290407	5 x 21	AlMg5	12,0 - 15,5	250
1290412	5 x 23	AlMg5	14,0 - 17,5	250
1290408	5 x 25	AlMg5	15,5 - 19,5	250
1290410	5 x 30	AlMg5	19,5 - 24,0	250
1290411	5 x 33	AlMg5	22,5 - 27,0	250

 Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

All part available in plain stainless steel.

## MBE Facade Rivet Aluminium Head Ø 16 mm with colored head

fastening of facade boards to constructions made of aluminium

Mandrel made of stainless steel

Clamping Thickness = board + sub-construction.

Drill hole Ø sub-construction: 5,1 mm.

Drill hole Ø board: see notes of the board manufacturers.

Please follow the processing instructions and standards for the chosen board material. Also make sure to pay attention to technical directions.

*Stressfree mounting can only be guaranteed by using fitting MBE special mouth piece (refer to section tools & accessories).*



Item Code	Dimension [mm]	Quality Rivet	clamping range [mm]	PU [Stück]
1290603	5 x 12	AlMg3	4,0 - 7,0	250
1290604	5 x 14	AlMg3	5,5 - 9,0	250
1290605	5 x 16	AlMg5	7,0 - 10,5	250
1290606	5 x 18	AlMg5	9,0 - 12,5	250
1290607	5 x 21	AlMg5	12,0 - 15,5	250
1290612	5 x 23	AlMg5	14,0 - 17,5	250
1290608	5 x 25	AlMg5	15,5 - 19,5	250
1290611	5 x 33	AlMg5	22,5 - 27,0	250



Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

All part available in plain stainless steel.



**MBE Facade Rivet Stainless Steel Head Ø 15 mm  
with colored head**

Fastening of facade boards to constructions made of steel or stainless steel

Mandrel made of stainless steel.

Clamping Thickness = board + sub-construction.

Drill hole sub-construction: 5,1 mm.


Drill hole board: see notes of the board manufacturers.

Please follow the processing instructions and standards for the chosen board material. Also make sure to pay attention to technical directions.

*Stressfree mounting can only be guaranteed by using MBE special mouth piece (Type G6 - item 1360309).*



Item Code	Dimension [mm]	Quality Rivet	clamping range [mm]	PU [Stück]
1920201	5 x 14	A4	4,0 - 9,0	100
1920202	5 x 18	A4	8,0 - 13,0	100
1920203	5 x 22	A4	12,0 - 17,0	100
1920205	5 x 27	A4	17,0 - 22,0	100

 Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

All part available in plain stainless steel.

**MBE Blind Rivet Aluminium Head Ø 9 mm**  
*with colored head*

Fastening and connecting of angles, profiles, etc. to aluminium sub-constructions.


Mandrel made of stainless steel

Clamping Thickness = board + sub-construction.

Drill hole Ø sub-construction: 5,1 mm.



Item Code	Dimension [mm]	Quality Rivet	Clamping Range [mm]	PU [pcs]
1530101	5 x 8	AlMg3	< 3,0	250
1530102	5 x 10	AlMg3	2,0 - 5,0	250
1530103	5 x 12	AlMg3	4,0 - 7,0	250
1530104	5 x 14	AlMg3	5,5 - 9,0	250
1530105	5 x 16	AlMg3	7,0 - 10,5	250
1530106	5 x 18	AlMg3	9,0 - 12,5	250
1530107	5 x 21	AlMg3	12,0 - 15,5	250
1530108	5 x 25	AlMg3	15,5 - 19,5	250
1530109	5 x 30	AlMg3	19,5 - 24,0	250

 Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

All part available in plain stainless steel.

## Riveting Tool AccuBird®

with 2 Li-Ion fast charging accu's 14,4 Volt (2,0Ah) and charger, packed in plastic case, including 1 MBE special mouth piece

Fastening of blind- and facade rivets up to 5,0 mm

### High Speed Setting

Constant forward and backward speed of the jaw assembly. Immediate repositioning of the jaw assembly after completion of the setting process saves energy and increases setting frequency.

### Accu Bird

Operating Voltage: 14,4 Volt DC  
 Pulling Strength: 10000 N  
 Total Stroke: 20 mm  
 Weight: 2,0 kg with battery





### Akku

Nominal Voltage: 14,4 V  
 Capacity: 2,0Ah  
 Cells composition: \_ Li-Ion  
 Output per Akku Charge: ~800 pcs. aluminium 5,0 mm / ~500 pcs. stainless steel 5,0 mm

### Quick battery charger

Input Voltage: 230V/50Hz



Item Code	Description	PU [pcs]	
1360101	AccuBird®	1	①
<b>Accessories for AccuBird®</b>			
1360121	 Battery for Accu-Bird® 14,4V- 2,0Ah - Li-Ion	1	②
1360122	 Battery for AccuBird® 14,4V- 4,0Ah - Li-Ion	1	②
1360111	 Charger for AccuBird® and PowerBird® 230V / 14,4V	1	②
1360112	 Spare Part Set for AccuBird® consisting of: Jaw Pusher, Compression Spring and Jaws	1	②

## Riveting Tool AccuBird® PRO

with 2 CAS LiHD batterypacks 18,0V (2,0Ah) and charging tool, packed in L-Boxx, including 1 MBE special mouth piece

Fastening of blind- and facade rivets up to Ø5,0 mm made of aluminium or stainless steel.

### AccuBird® PRO

With brushless motor and 13.000 N pulling strength, suited for facade and blind rivets Ø5 mm of all materials

Operating Voltage: 18 Volt brushless motor BLDC

Pulling Strength: 13.000 N

Total Stroke: 25 mm

Weight: 2,0 kg with battery

The BLDC motor of the AccuBird® Pro has an extremely long service life and is virtually nonwearing. Compared to commercially available battery-powered tools, setting can be done up to 4x faster making it comparable with hydropneumatic blind rivet setting tools.

### CAS batterypack

Nominal Voltage: 18,0 V

Capacity: 2,0 Ah

Cells composition: Li-Ion

Output per Akku Charge: up to 850 riveting runs depending on material and lightning usage

### Quick battery charger

Input Voltage: 230V/50Hz



Item Code	Description	PU [Stück]	
1360120	AccuBird PRO®	1	①
<b>Accessories for AccuBird® PRO</b>			
1360124	CAS batterypack Bird Pro® Series 18,0V - 2,0Ah - LiHD	1	②
1360125	CAS batterypack Bird Pro® Series 18,0V - 4,0Ah - LiHD	1	②
1360123	CAS Charger for Bird Pro® Series 230V / 18,0 V	1	②
1360113	Spare Part Set for AccuBird PRO® consists of: Jaw Pusher, O-Ring 16x1.5 and Jaws	1	②

## Hand Riveting Tool HN2

*including 1 MBE Special Mouth Piece*

Fastening of blind- and facade rivets.

We recommend to use for 5 mm **aluminium rivets**

Thread Mounting = M10 x 1

Stroke: 10 mm



Item Code	PU [Stück]
1360126	1



## Riveting Tool for Blind rivet nuts Tool FireBird® PRO

with 2 CAS LiHD battery packs 18,0V (2,0Ah) and charger, packed in L-Boxx

Large working range, up to M8 steel, M6 stainless steel and M10 aluminium.

### High Speed Setting

Safe and easy drill-on of the blind rivet nuts. Constant speed setting and automatic switching to drill-off at the end of the setting process.

### Safe and easy

Drill-on of the blind rivet nut with reduced torque and automatic switch-off. Separate Triggering of the pulling step. Monitoring of preset stroke through electronic control. Drill-off with high torque after setting is complete.

### Quick mandrel exchange

Quick mandrel exchange and stroke adjustment without tools.

### Fire Bird PRO

brushless motor (BLDC)  
Pulling Strength: 15.000 N  
Weight: 2,1 kg

### CAS Battery pack

Nominal Voltage: 18,0V, Capacity: 2,0Ah  
Cells composition: \_ LiHD

### CAS battery charger

Input Voltage: 230V/50Hz












Item Code	Description	PU [pcs]	
1360106	Riveting Tool FireBird® PRO	1	①
1360124	CAS battery pack Bird® PRO Series 18,0V- 2,0Ah - LiHD	1	②
1360125	CAS battery pack Bird® PRO Series 18,0V- 4,0Ah - LiHD	1	②
1360123	CAS Charger for Bird® PRO Series 230V / 18,0V	1	②

## Special Mouth Pieces

For stressfree fastening of facade boards.

Thread mount: M10x1

Please refer to mounting instructions of board manufacturers.

Item Code	Type	Application	PU [pcs]
1360301	 G1	for HPL, fibre cement aluminium rivets Ø 5 mm, head Ø 11 mm	1
1360304	 G2	for HPL, fibre cement aluminium rivets Ø 5 mm, head Ø 14 mm	1
1360307	 G3	for HPL, fibre cement aluminium rivets Ø 5 mm, head Ø 16 mm	1
1360310	 AG11	for aluminium composite panels aluminium rivets Ø 5 mm, head Ø 11 mm	1
1360312	 AG14	for aluminium composite panels aluminium rivets Ø 5 mm, head Ø 14 mm	1
1360322	 AG16	for aluminium composite panels aluminium rivets Ø 5 mm, head Ø 16 mm	1
1360309	 G6	for HPL, fibre cement stainless steel rivets A4 Ø 5 mm, head Ø 15 mm	1
1360323	 G10	for HPL, fibre cement and aluminium composite materials aluminium rivets Ø 5 mm, head Ø 16 mm in use with design washer 22 mm	1
1360332	 G17	for Rockpanel aluminium rivets Ø 5 mm, head Ø 16 mm	1

## MBE Handle Drill-Jig

*aluminium handle with cylindrical insert (hardened)*

Centric transfer of hole pattern from board to sub-construction.

Please refer to mounting instructions of board manufacturers.

### MBE drill-bit recommendation

Item: 1360405

MBE HSS special drill bit Ø 5,1 mm for aluminum subconstruction

Item: 1360409

MBE HSS special drill bit Ø 3,3 mm for wodden sub construction



Item Code	SC Type	panel drillhole [mm]	drill hole SC [mm]	PU [pcs]
1360203	Aluminium	8,0	5,1	1
1360222	Wood	8,0	3,3	1
1360217	Aluminium	8,5	5,1	1
1360212	Aluminium	9,5	5,1	1
1360205	Wood	9,5	3,3	1
1360218	Aluminium	10,0	5,1	1



## MBE Single-Hand-Spring-Drill-Jig

*Spring-Drill-Jig including HSS-Drill-Bit*

Centric transfer of hole pattern from board to sub-construction.

Please refer to mounting instructions of board manufacturers.

MBE drill-bit recommendation

Item: 1369908

MBE HSS special drill bit Ø 5,1 mm for aluminum subconstruction



Item Code	SC Type	panel drillhole [mm]	drill hole SC [mm]	PU [Stück]
1360202	Aluminium	8,0	5,1	1
1360216	Aluminium	8,5	5,1	1
1360220	Aluminium	9,5	5,1	1
1360215	Aluminium	10,0	5,1	1
1360211	Aluminium	13,0	5,1	1
1360211	Special Dimension			1

## MBE Special Drill Bit with Centering Tip

Drilling holes into sub-construction of aluminium and steel (steels up to 900N/mm<sup>2</sup> tensile strength).

Special drill bit for drilling by hand in fine sheet (up to 3mm material thickness) or wood. Exact round drill holes with perfect edges.

The centering point guarantees the exact drill position.

Non slide shank with grip areas.

Item Code	Quality	Drill-Bit Ø [mm]	Length [mm]	PU [pcs]
<b><u>HSS drill bit without centering tip for wooden sub construction</u></b>				
1360409	HSS	3,3	~ 65	1
<b><u>HSS drill bit for MBE handle drill-jig</u></b>				
				
1360405	HSS	5,1	~ 85	1
<b><u>HSS drill bit for MBE single hand spring drill-jig</u></b>				
				
1369908	HSS	5,1	~ 96	1
1369923	HSS	4,1	~ 96	1

## MBE Facade Board Drill Bit

For placing mounting holes into boards made of HPL, fiber concrete, fiber reinforced concrete and aluminium.

For mounting hole diameter please refer to board manufacturers guidelines.

Special drill for free-hand as well as machinery drilling.

Exact borehole rim

Exact spot drilling because of centering tip

Anti skid shaft and clamping surface

Item Code	Quality	Drill-Bit Ø [mm]	Length [mm]	PU [pcs]
-----------	---------	------------------	-------------	----------

**MBE VHM Facade-Board with centering tip drill for HPL, fiber concrete and fiber reinforced concrete**  
 long life coated pure carbide metal of ultimate quality



1360708	VHM	6,0	~80	1
1360701	VHM	7,0	~80	1
1360702	VHM	8,0	~80	1
1360703	VHM	8,5	~80	1
1360706	VHM	9,0	~80	1
1360707	VHM	9,5	~80	1
1360704	VHM	10,0	~80	1
1360705	VHM	13,0	~80	1

**MBE VHM Facade - Board drill with centering tip for Aluminium compound material**



1360408	HSS-E	7,0	~109	1
1360406	HSS-E	8,5	~117	1
1360413	HSS-E	9,5	~117	1
1360410	HSS-E	10,0	~133	1

## MBE Step Drill-Bit

Drilling holes into board and aluminium sub-construction as subsequent treatment in one operation only.

Drill Hole Board: refer to the manufacturers' instructions.

MBE Step Drill Bit applicable for punctual appliance.

We recommend using the MBE drill jig and the HSS drill bit.

Item Code	Quality	Step 1 Ø [mm]	Step 2 Ø [mm]	PU [pcs]
-----------	---------	---------------	---------------	----------



1360401	HSS	7,0	5,1	1
1360402	HSS	8,5	5,1	1
1360414	HSS	9,5	5,1	1
1360403	HSS	10,0	5,1	1

### accessories:






depth stop made of stainless steel for step drill bits



1360404	for step drill-bit 7,0, 8,5 on 5,1	1
1360415	for step drill-bit 9,5 on 5,1	1
1360407	for step drill-bit 10,0 on 5,1	1

## MBE Bits




Item Code		Quality	Bit Drive	PU [pcs]
1360501		Stahl	ISR 15	1
1360502		Stahl	ISR 20	1
1360503		Stahl	ISR 25	1
1360504		Stahl	PH 1-3	1
1360507		Stahl	ISR SD27	1

## MBE Drift Punch Tool

For mounting of MBE fixpoint sleeves with oval drillhole.

Arrow mark points at 12 o'clock during hammering.

Panel drill hole need to be within tolerances H8 (0 / 0,03).

Item Code	Description	PU [pcs]
		
1360603	for fix point sleeves 10 mm with long hole 5,2 x 7,8 mm	1
1360604	for fix point sleeves 8 mm with long hole 5,1 x 6,2 mm	1

## MBE Tool Box

Basic Equipment of tools for certain facade panel types / manufacturers.

Packed in solid outdoor plastic case.



Item Code	Description	PU [piece]
1360801	Tool Box	1

Price by request

## Facadescrews with colored head

available in all panel, uni and metallic colors

Fastening of facade boards (e.g. HPL, fibre concrete) to wooden sub-construction.

Please follow instructions and specifications of board manufacturers.

For stress-free mounting stop screwing into-sub-construction when screw head meets board surface.



Item Code	Dimension [mm]	Head Ø [mm]	Quality	Drive	PU [pcs]
1120101	4,5 x 35	9,6	A4	ISR 20	250
1120201	4,8 x 25	12	A2	ISR 20	250
1120210	4,8 x 30	12	A2	ISR 20	250
1120202	4,8 x 32	12	A2	ISR 20	250
1120203	4,8 x 38	12	A2	ISR 20	250
1120204	4,8 x 38	14	A2	ISR 20	250
1120211	4,8 x 44	12	A2	ISR 20	250
1120212	4,8 x 60	12	A2	ISR 20	100
1120301	5,5 x 25	12	A4	ISR 20	250
1120808	5,5 x 35	11	A2	ISR 20	250
1120302	5,5 x 35	12	A4	ISR 20	250
1120303	5,5 x 40	16	A4	ISR 20	100
1120809	5,5 x 45	11	A2	ISR 20	250
1120304	5,5 x 45	12	A4	ISR 20	250
1120305	5,5 x 55	12	A4	ISR 20	100
1120306	5,5 x 65	14	A4	ISR 20	100
1120307	5,5 x 80	14	A4	ISR 20	100
1120308	5,5 x 100	14	A4	ISR 20	100
1120701	5,5 x 40 <i>with drill tip</i>	12	A4	ISR 20	100
1120401	5.5 x 42 <i>with security drive</i>	12	A4	ISR 27 SD	100

**KS** Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

All part available in plain stainless steel.



## Facade Screw Set for Aluminium composite panels

available in plain stainless steel and with colored head in all panel, uni or metallic colors

Fastening of aluminium composite boards (4 mm thickness) to wooden sub-construction

**Please follow supplementary MBE mounting instructions**

Stressfree, damage preventing and tightening assembling by use of FA-ZE-DI washer

as soon as screw head rest on washer collar please end screw in process.  
(no further torque)

drill hole in facade board:  $\varnothing$  9,5 mm

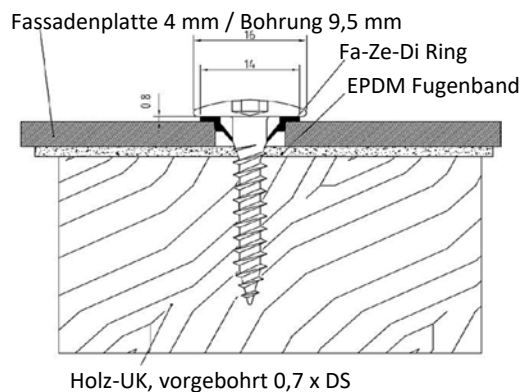
FA-ZE-DI Set consists of:

screw made of stainless steel A2 - ISR25 drive with key guidance

FA-ZE-DI washer made of TPE and Bit ISR 25



Item Code	Dimension [mm]	Head $\varnothing$ [mm]	Quality	Drive	PU [pcs]
1120806	4,8 x 30	16	A2	ISR 25	250
1120807	4,8 x 40	16	A2	ISR 25	250



Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

All part available in plain stainless steel.

## MBE Cassettes Drilling Screw

*mit Schneidring, for aluminium composite cassettes*

Fixing of 2 mm supporting profiles on 4 mm aluminium composite cassettes.

Cassettes drilling screw with cutting ring for severing the protective film.

Protective film can be completely removed under screw head after setting process.

Please follow instructions and specifications of board manufacturers.



Item Code	Dimension [mm]	Head Ø [mm]	Quality	Drive	PU [pcs]
1690201	6,0 x 20 mm	11 mm	Edelstahl A2	ISR 25	100

**KS** Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

## EPDM Joint Tape LE-MBE-FB-EPDM DF1-0,75mm

*non- and self-adhesive type*

Backing of board joints on wooden sub-constructions. Protecting wooden sub-construction from water.

Thickness: 0,75 mm

Color: black

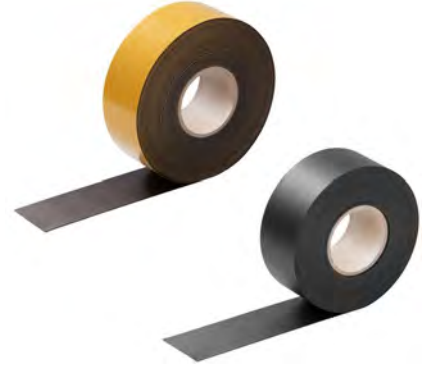
UV- / weather resistance: 20 years

CE: **LE-MBE-FB-EPDM DF1-0,75mm**

Please follow the processing instructions and technical standards for the chosen board material.

Sub-construction must be completely covered. (wooden sub construction must have minimum of 5 mm overlap on each side)

Special width by request.



Item Code	Width [mm]	Thickness [mm]	Roll [Length]	Roll [per PU]
<b>EPDM</b>				
1170201	70	0,75	25 m	2
1170202	110	0,75	25 m	1
1170203	135	0,75	25 m	1
<b>EPDM self adhesive</b>				
1170101	70	0,75	25 m	2
1170102	110	0,75	25 m	1
1170103	135	0,75	25 m	1

## EPDM Joint Tape DF1 1,30 mm

*non- and self-adhesive type*

Backing of board joints on wooden sub-constructions. Protecting wooden sub-construction from water.

Thickness: 1,30 mm

Color: black

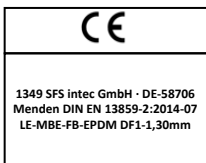
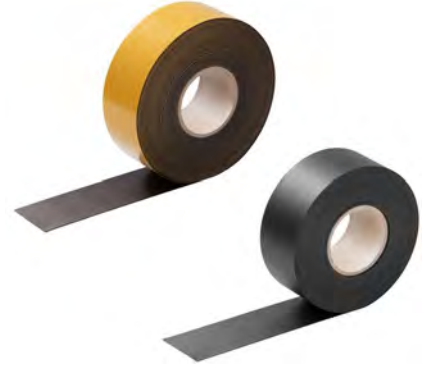
UV- / weather resistance: 20 years

CE: **LE-MBE-FB-EPDM DF1-1,30mm**

Please follow the processing instructions and technical standards for the chosen board material.

Sub-construction must be completely covered. (wooden sub construction must have minimum of 5 mm overlap on each side)

Special width by request.



Item Code	Width [mm]	Thickness [mm]	Roll [Length]	Roll [per PU]
<b>EPDM</b>				
1170601	70	1,30	15 m	2
1170602	120	1,30	15 m	1
<b>EPDM self adhesive</b>				
1170501	70	1,30	15 m	2
1170502	120	1,30	15 m	1

## Balcony Screw Set Head 16 mm with cap nut

*consisting of screw M5 (micron capsulated) with colored head, selfadhesive polywasher, washer 17mm, spring washer and cap nut*

Fastening of facade boards to constructions made of aluminium, carbon steel, stainless steel.

### Balcony Screws

material: stainless steel A2

drive: ISR 20

Please follow processing instructions and standards for the chosen board material (confirm to ETB standards).

Torque 2 - 4 Nm.

Please pay attention to anti-corrosion protection if holes are drilled to steel sub-constructions later!



Item Code	Dimension [mm]	Quality	Clamping Range [mm]	PU [pcs]
1020101	M5 x 20	A2	7 - 11	100
1020102	M5 x 25	A2	12 - 16	100
1020103	M5 x 30	A2	17 - 21	100
1020104	M5 x 35	A2	22 - 26	100
1020105	M5 x 40	A2	27 - 31	100
1020106	M5 x 45	A2	32 - 36	100
1020107	M5 x 50	A2	37 - 41	100
1020108	M5 x 55	A2	42 - 46	100
1020109	M5 x 60	A2	47 - 51	100
1020110	M5 x 65	A2	52 - 56	100
1020111	M5 x 70	A2	57 - 61	100



Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

All part available in plain stainless steel.

## Balcony Screw Set Head 16 mm with thread bush

*consisting of screw M5 (micron capsulated) with colored head, threaded poly spacer and thread bush*

Fastening of facade boards to constructions made of aluminium, carbon steel, stainless steel.

### Balcony Screws

material: stainless steel A2

drive: ISR 20

### Thread Bush

material: stainless steel A2

drive: ISR 20

Please follow processing instructions and standards for the chosen board material (confirm to ETB standards).

Torque 2 - 4 Nm.

Please pay attention to anti-corrosion protection if holes are drilled to steel sub-constructions later!

Required minimum strength of the sub-construction is 20 mm.



Item Code	Dimension [mm]	Quality	Clamping Range [mm]	PU [pcs]
1020201	M5 x 20	A2	21 - 25	100
1020202	M5 x 25	A2	26 - 30	100
1020203	M5 x 30	A2	31 - 35	100
1020204	M5 x 35	A2	36 - 40	100
1020205	M5 x 40	A2	41 - 45	100
1020206	M5 x 45	A2	46 - 50	100
1020207	M5 x 50	A2	51 - 55	100
1020208	M5 x 55	A2	56 - 60	100
1020209	M5 x 60	A2	61 - 65	100
1020210	M5 x 65	A2	66 - 70	100
1020211	M5 x 70	A2	71 - 75	100



Sufficient anti corrosion protection is needed when stainless steel or aluminium parts are used in chloride containing atmosphere or close to it. We offer a special KS coating for this case.

All part available in plain stainless steel.

**Screw-Set for use on solid walls for fixing interior protection board (HPL or coated chips)**

*consist of facade screw stainless steel or with colored head and plastic dowel S8*

Through bolt screw visible in solid walls (concrete / brickwork).

Drill hole wall protection: 8mm

Drill hole brickwork: 8mm



Item Code	Dimension [mm]	Head Ø [mm]	Quality	Drive	PU [pcs]
1070101	5,5 x 55	12	A4	S8	100
1070102	5,5 x 65	14	A4	S8	100

## MBE Fix Point Sleeves

individual choosing of fixpoint

### MBE tool tip

in connection item 1240406 please use item 1360604 MBE hit tool on page 22



Item Code	Dimension [mm]	Quality	PU [pcs]
1240211	Ø 8,0 x 7,5 lg - drill hole Ø 5,1	Aluminium	100
1240212	Ø 8,0 x 12,0 lg - drill hole Ø 5,1	Aluminium	100
1240207	Ø 8,5 x 3,5 lg - drill hole Ø 5,1	Aluminium	100
1240201	Ø 8,5 x 6,0 lg - drill hole Ø 5,1	Aluminium	100
1240206	Ø 8,5 x 6,0 lg - drill hole Ø 5,1	A2	100
1240202	Ø 9,0 x 6,0 lg - drill hole Ø 4,1	Aluminium	100
1240216	Ø 9,5 x 3,5 lg - drill hole Ø 5,1	Aluminium	100
1240219	Ø 9,5 x 7,4lg - drill hole Ø 5,1	Aluminium	100
1240220	Ø 9,5 x 7,4lg - drill hole Ø 5,1	A2	100
1240205	Ø 10,0 x 6,0 lg - drill hole Ø 5,1	Aluminium	100
1240221	Ø 10,0 x 6,0 lg - drill hole Ø 5,1	A2	100
1240213	Ø 10,0 x 12,0 lg - drill hole Ø 5,1	Aluminium	100
1240227	Ø 8,5 x 3,5 lg - drill hole Ø 6,0	Aluminium	100
1240228	Ø 9,5 x 3,5 lg - drill hole Ø 6,0	Aluminium	100
1240406	Ø 8,0 x 7,5 lg - long hole 5,1 x 6,2	Aluminium	100



## MBE Fixpoint Sleeves Set's PLUS

individual choosing of fixpoint

### MBE tool tip

For fix point sleeve plus set's (with long hole)  
please only use MBE VHM drill bit for drilling facade boards

Artikel-Nr.124 04 05 - (drill hole Ø10 mm H8; +27/+0)

Artikel-Nr.124 04 04 - (drill hole Ø13 mm H8; +27/+0)

in connection item 1240405 please use item 1360603 MBE hit tool on page 22





Item Code	Dimension [mm]	Quality	PU [pcs]
1240405	<b>Fixpoint-Sleeve-Set Plus 10</b> consisting of each 100 fix point sleeves: Ø 10,0 x 6,0 lg - drill hole Ø 5,1 Ø 10,0 x 6,0 lg - long hole 5,2 x 7,0	Aluminium	100
1240404	<b>Fixpoint-Sleeve-Set Plus 13</b> consisting of 100 fix point sleeve: Ø 13,0 x 6,0 lg - drill hole Ø 5,1 Ø 13,0 x 6,0 lg - longhole 5,2 x 9,0	Aluminium	100

## Centering Washer for Screws

Please follow the processing instructions and standards for the chosen board material. Also make sure to pay attention to technical directions.

itemcode 1240501: Ø panel drill hole: 7 mm

itemcode 1240502: Ø panel drill hole: 8,5 mm

Item Code	Dimension [mm]	Quality	PU [pcs]
<b><u>TPE centering washer</u></b>			
			
1240501	Ø 10,5 x 4,0 mm	TPE	250
<b><u>AV centering sleeve</u></b>			
			
1240502	Ø 10 x 8,3 mm	PA	100

## Window Sill Screws similar DIN7981

with EPDM washer A2 12 mm

Screws available with stainless steel washer EPDM 12 mm or polyamid washer.

Screws available in all uni- and metallic colors.

Screws available with Pozi or ISR drive.

polyamid washers available in transparent, white, brown and grey.

Prices by request.





Item Code	Dimension [mm]	Quality	PU
188....	3,9 x 13	A2	
188....	3,9 x 16	A2	
188....	3,9 x 19	A2	
188....	3,9 x 22	A2	
188....	3,9 x 25	A2	
188....	3,9 x 32	A2	
188....	3,9 x 38	A2	

## TD-A4-Screws with cutting notch

Concealed fastener to fix a hanger to a HPL panel



Item Code	Dimension	PU [Stück]
1300301	TD-A4-D12/R-6X8	100
1300302	TD-A4-D12/R-6X9,5	100
1300303	TD-A4-D12/R-6X11,5	100
1300304	TD-A4-D12/R-6X14,5	100
<b>Accessories</b>		
1900301	Depth locator	1
		
1300306	HSS-4,9X40,5	1
		
1300307	HSS-4,9X42,5	1
1300308	HSS-4,9X45,5	1

## MBE Touch Up Pen

For punctual repair of scratches / damages on fasteners.

Available in all current panel colors, as well as RAL and NCS.



Item Code	Content	PU [pcs]
1000011	20 ml	1

## Design Washer

Rivet fastening solution for panel drill holes 12,5 mm.

In conjunction with facade rivets head 16 mm, aluminium / stainless steel.

### Clamping thickness for selecting correct rivet

Clamping thickness = sub-construction + panel + 1,5 mm

*Stressfree mounting can only be guaranteed by using MBE special mouth piece type G10 - item code 1360323 (refer to section tools & accessories).*



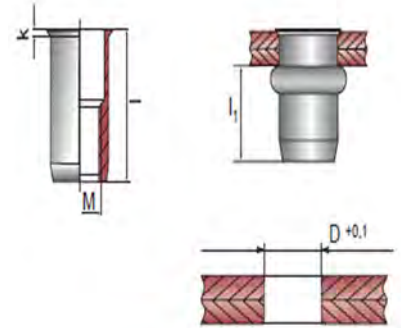
Item Code	Drill Hole Ø [mm]	Outer Ø [mm]	Height [mm]	Quality	PU [pcs]
1240301	5,1	22	Aluminium	2,6	100

## MBE detachable Fixing Solution

consists of Balcony Screw M5 and rivet nut M5

facade board on aluminium or steel sub-constructions.

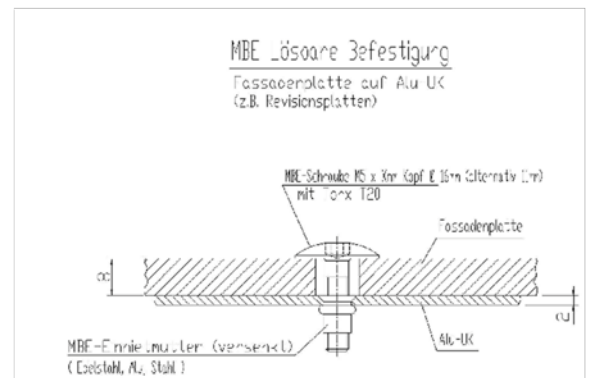
Please note that a special tool is need for fixing the rivet nut. (for example Firebird, item code 136....)



Item Code	Dimension [mm]	Head $\varnothing$ [mm]	Quality	PU [pcs]
<b>Balcony Screws M5, with colored head <math>\varnothing</math> 16 mm</b>				
1020301	M5 x 20	16	A2	100
1020302	M5 x 25	16	A2	100
1020303	M5 x 30	16	A2	100

### Rivet Nut M5, stainless steel

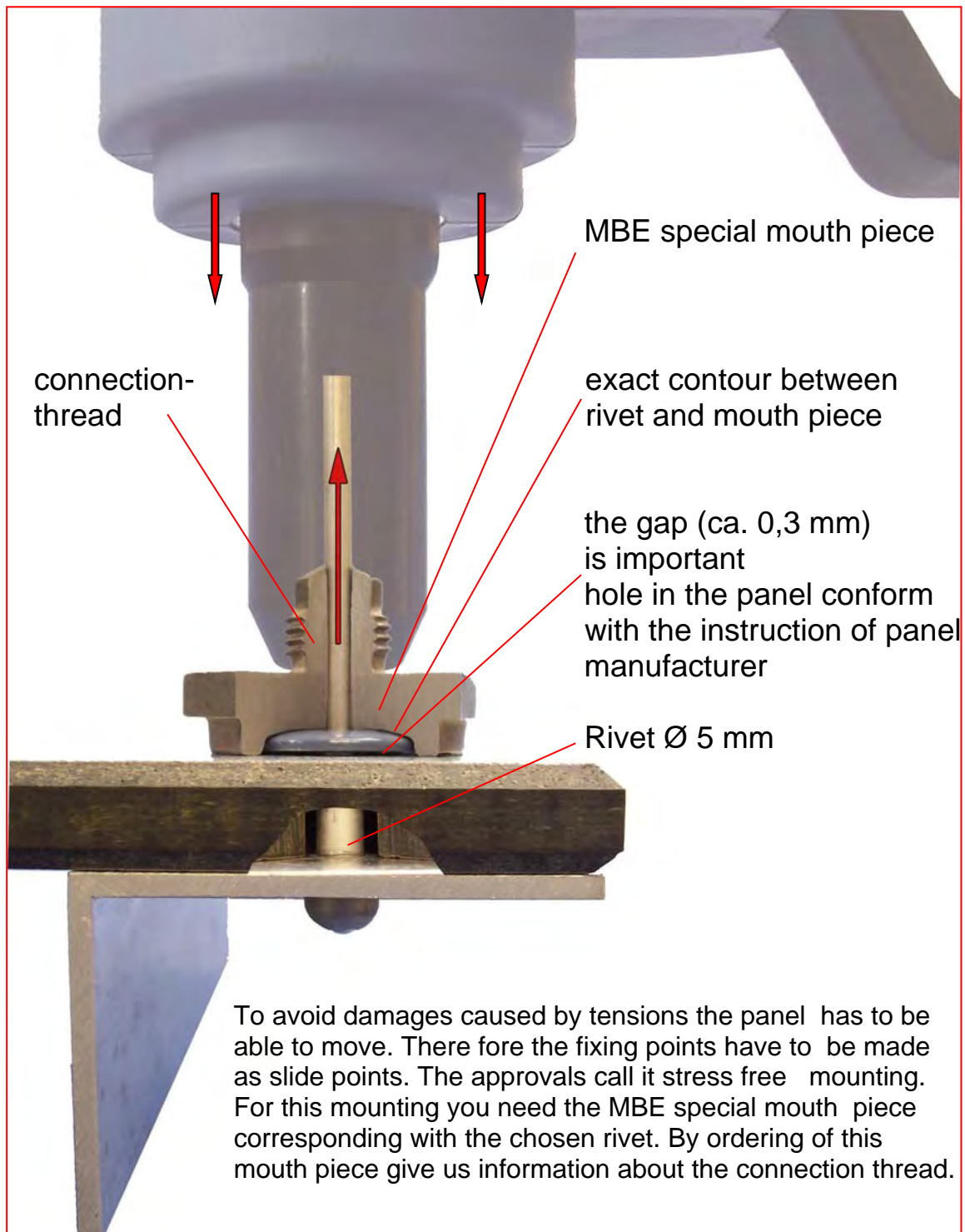
Item Code	Dimension [mm]	Quality	Inner-Thread	Clamping Range [mm]	PU [pcs]
1289910	7 x 11,5	A2	M5	1,0-3,0	100



other dimensions available by request

## Stressfree Mounting of Facade- Panels

by using MBE- Facade rivet and MBE- Special mouth piece





# 3 steps to the professional mounting of facade panels with rivets

## 1. Drilling of the panels ...

... with the VHM-drill (speed: appr. 1000 r / min)  
for HPL-, fibre concrete panels



or

... with the HSS special drill  
for panels made of Aluminiumcompound

- pinpointly drilling with center point
- softly, smoothly penetrating
- special sharpening prevents outbursts on decor- and also backside
- long lifetime

result after step 1:



## 2. Centric transfer of the panel hole to the Aluminium substructure ...

... with the single hand spring drill jig



or

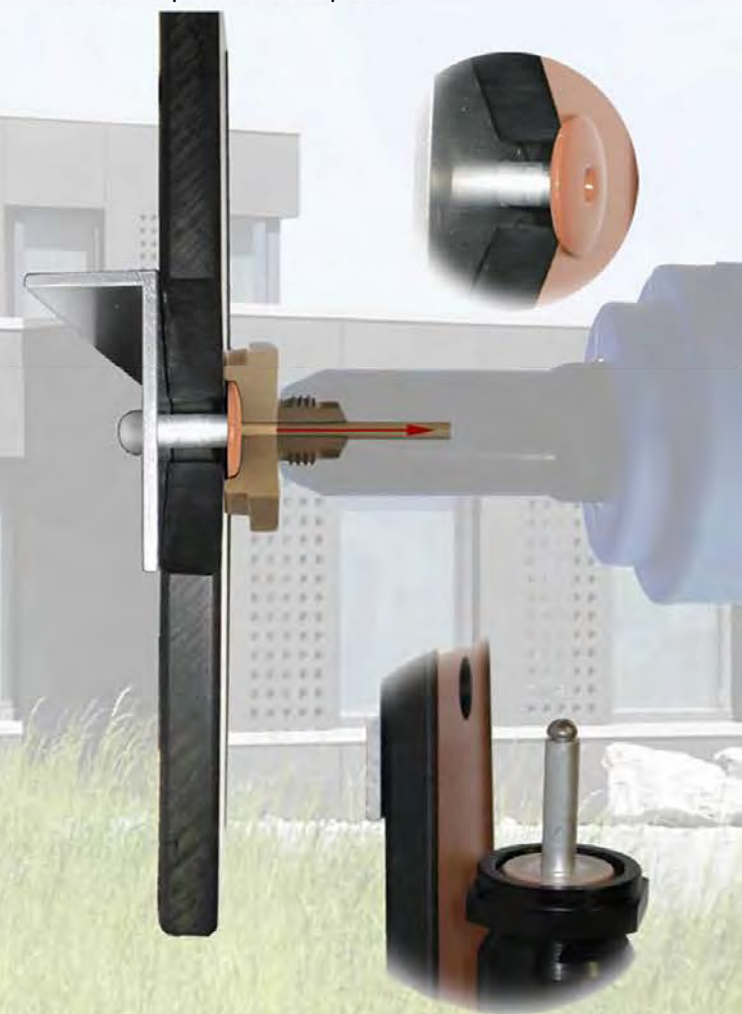
... with the handle drill jig and  
separate special drill Ø 5,1

result after step 2:

Ø 5,1mm holes in the substructure are lying on the  
same position like the big panel holes

## 3. Stressfree mounting of rivets ...

... with the special mouth piece



final result:

Both component parts are mounted without  
tensions, they can move against each other.  
This means stressfree mounting