



Welcome

**Product Management
Roland Beeler**

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January 2010**





Roofing



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Scope Roofing systems



Overview



mechanically attached



fully adhered



ballasted



ballasted with plants)



solar



decor/pattern

Scope

PVC flat roof mechanically attached



TPO flat roof mechanically attached



Scope

PVC flat roof mechanically attached



PVC vegetated green roof
(ballasted with plants)



Scope

PVC flat roof gravel ballasted



Bitumen flat roof mechanically attached



Scope

Modified bitumen field base membrane (vapor barrier), mechanically attached and overlap welded



Modified bitumen roof, single ply, mechanically attached.



Roofing Systems

To protect the roofing membrane from uplift forces it needs to be fastened or ballasted.
Following roofing systems are worldwide used:

Flat Roof (single ply)

1. mechanically attached
2. fully adhered
3. ballasted

Steep Roof (pitched roof)

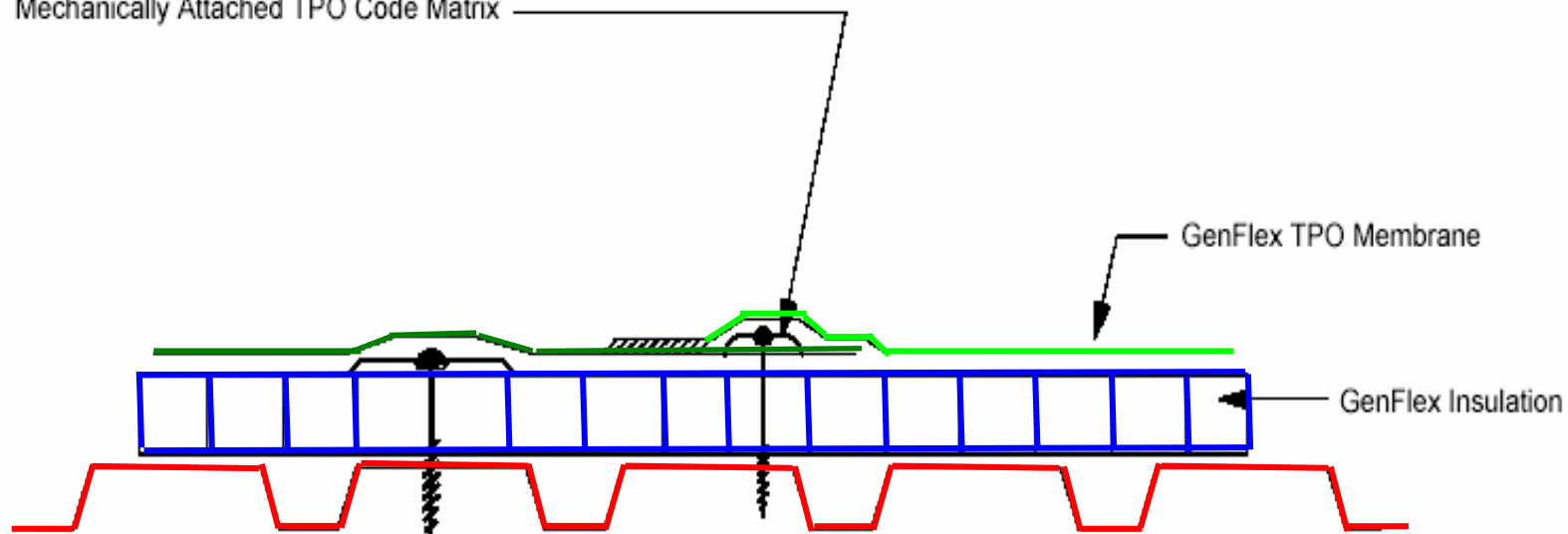
1. Single ply consolidated

Roofing Systems

1. mechanically attached :

- Secure against wind suction
- Fast laying
- Economy maintenance
- Ligth roof
- Long-life cycle

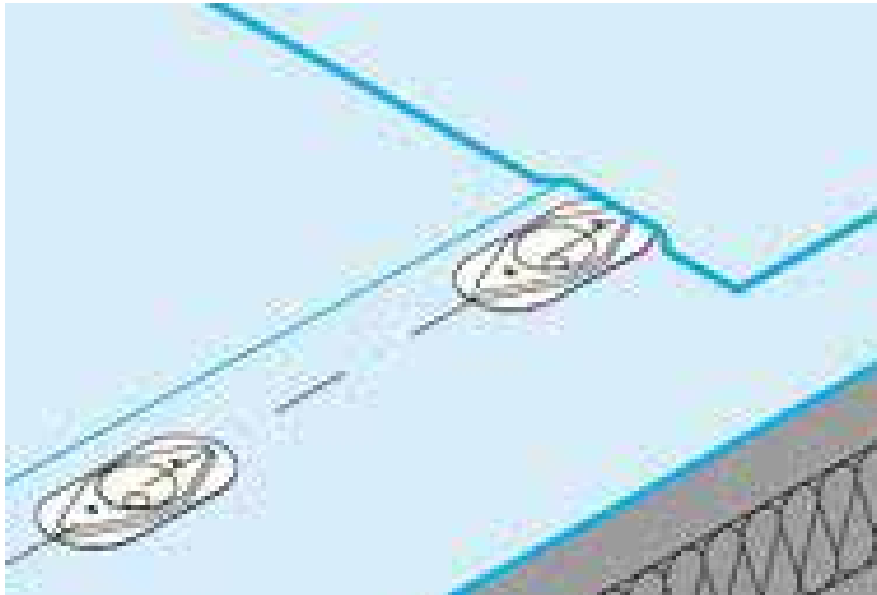
GenFlex Bar Anchor or Seam Plate secured with GenFlex Fasteners spaced according to the Mechanically Attached TPO Code Matrix



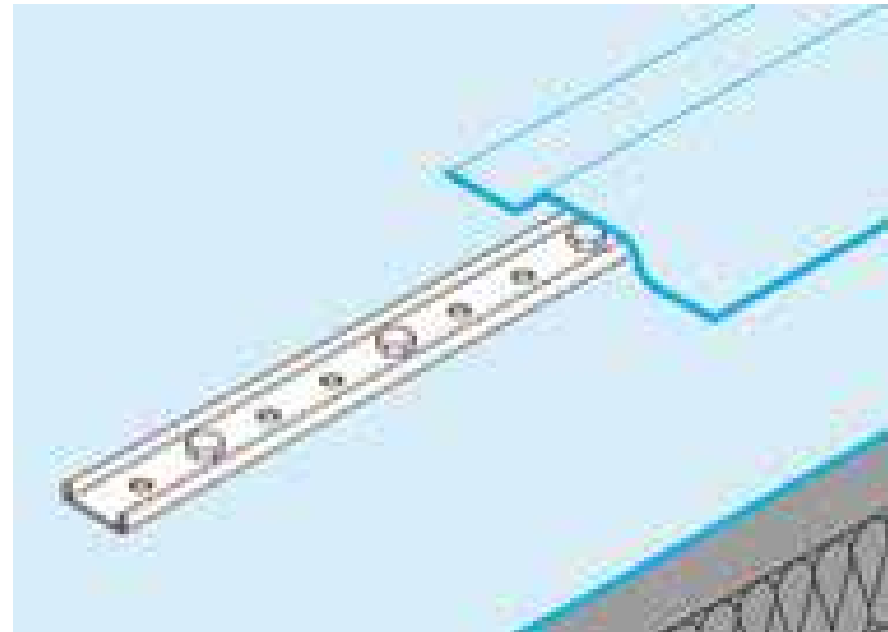
Position insulation and membrane sheets to enable securment into the top flutes on steel decks to ensure positive attachment and to reduce fastener movement. Insulation should be installed with board ends resting on the flute tops.

Roofing Systems

mechanically attached selective

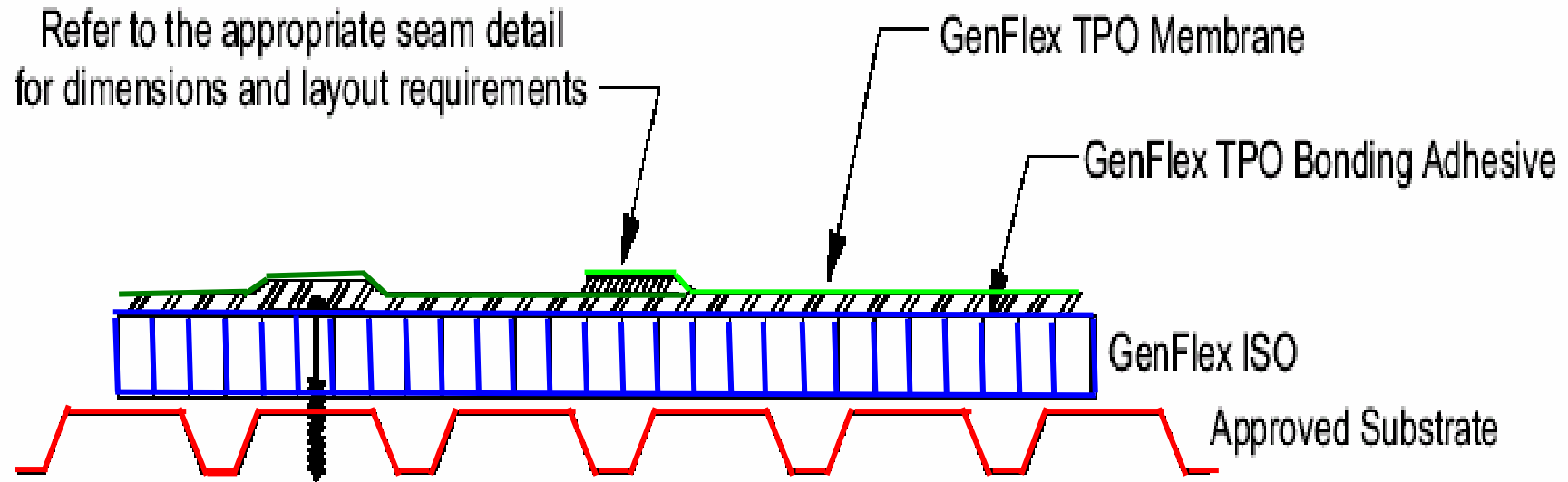


mechanically attached with bar



Roofing Systems

2. Fully adhered



Position insulation to enable securement into the top flutes on steel decks to ensure positive attachment and to reduce fastener movement. Insulation should be installed with board ends resting on the top flutes.

Roofing Systems

3. Ballasted

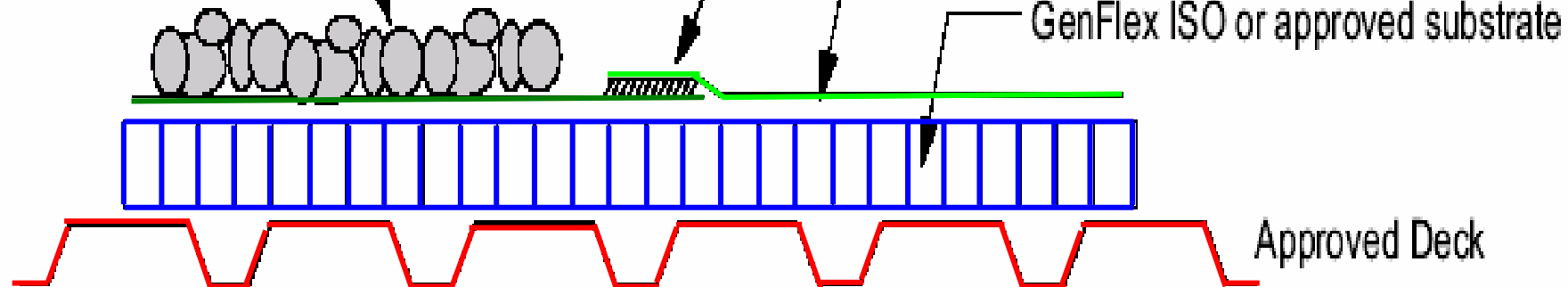
Standard Ballasted Assembly

Minimum 10lbs per square foot of
Approved Ballast

Refer to the appropriate seam detail
for dimensions and layout requirements

GenFlex TPO Membrane

GenFlex ISO or approved substrate



Steep Roof (pitched roof) scope

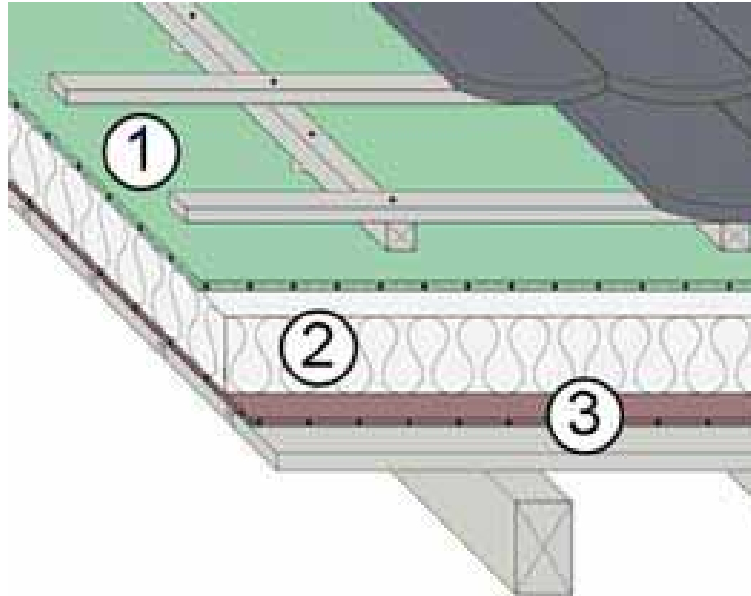
TPO consolidated loose laying



TPO consolidated residential



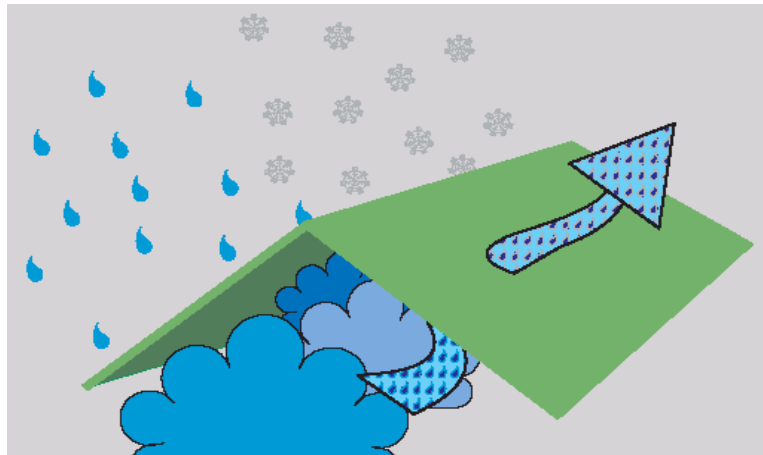
Steep Roof (pitched roof) system



1 Consolidated membrane for welding

2 Insulation

3 vapor barrier



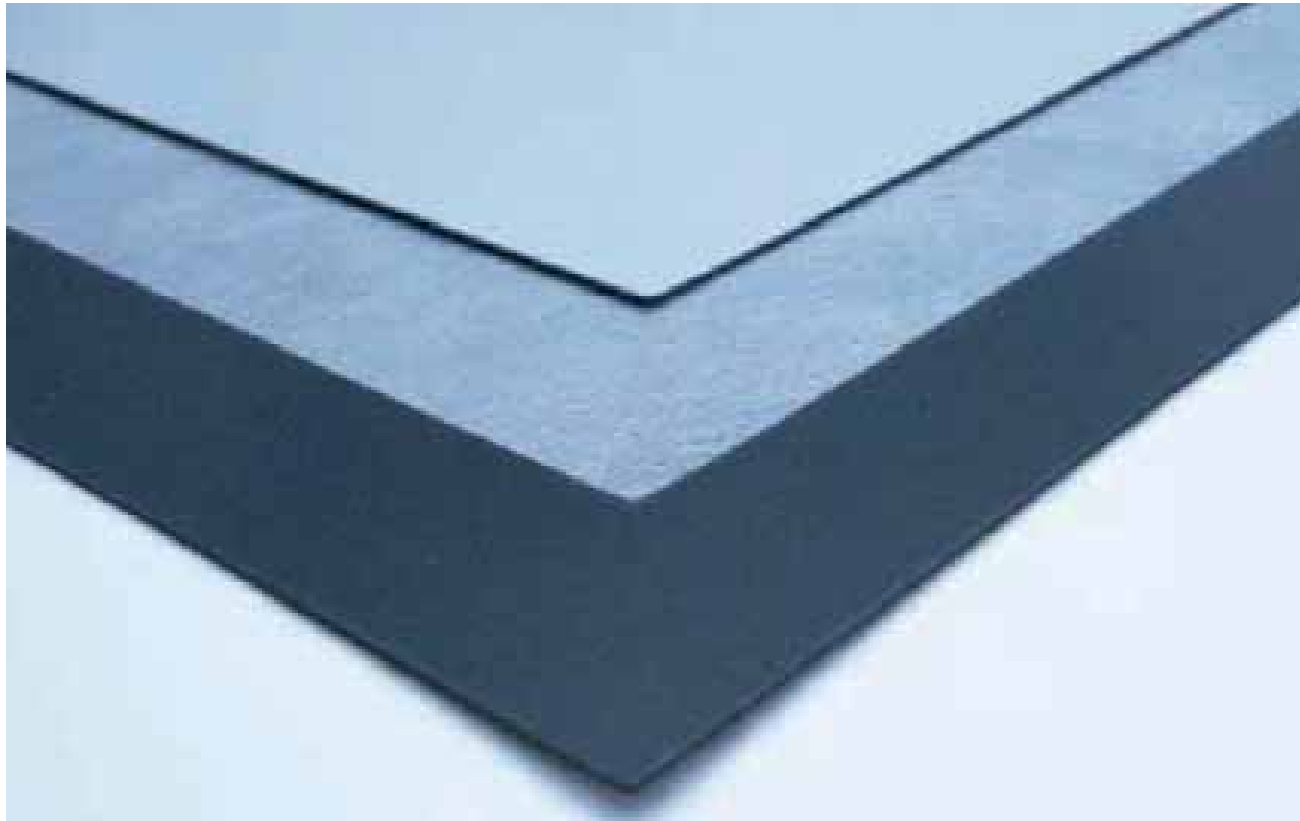
Diffusion open consolidated membrane

Roofing Materials

- PVC (Polyvinylchloride)
- TPO (thermoplastic Polyolefin)
- FPO (flexible Polyolefin)
- EPDM (Ethylene-Propylene-Dien-Terpolymere)
- Modified Bitumen (asphalt modified with atactic polyolefin reinforced with a non-woven polyester mat)
- ECB (Ethylene Copolymer Bitumen)
- CSPE (Hypalon/chlorosulfonated polyethylene & synthetic rubber)

Roofing Materials

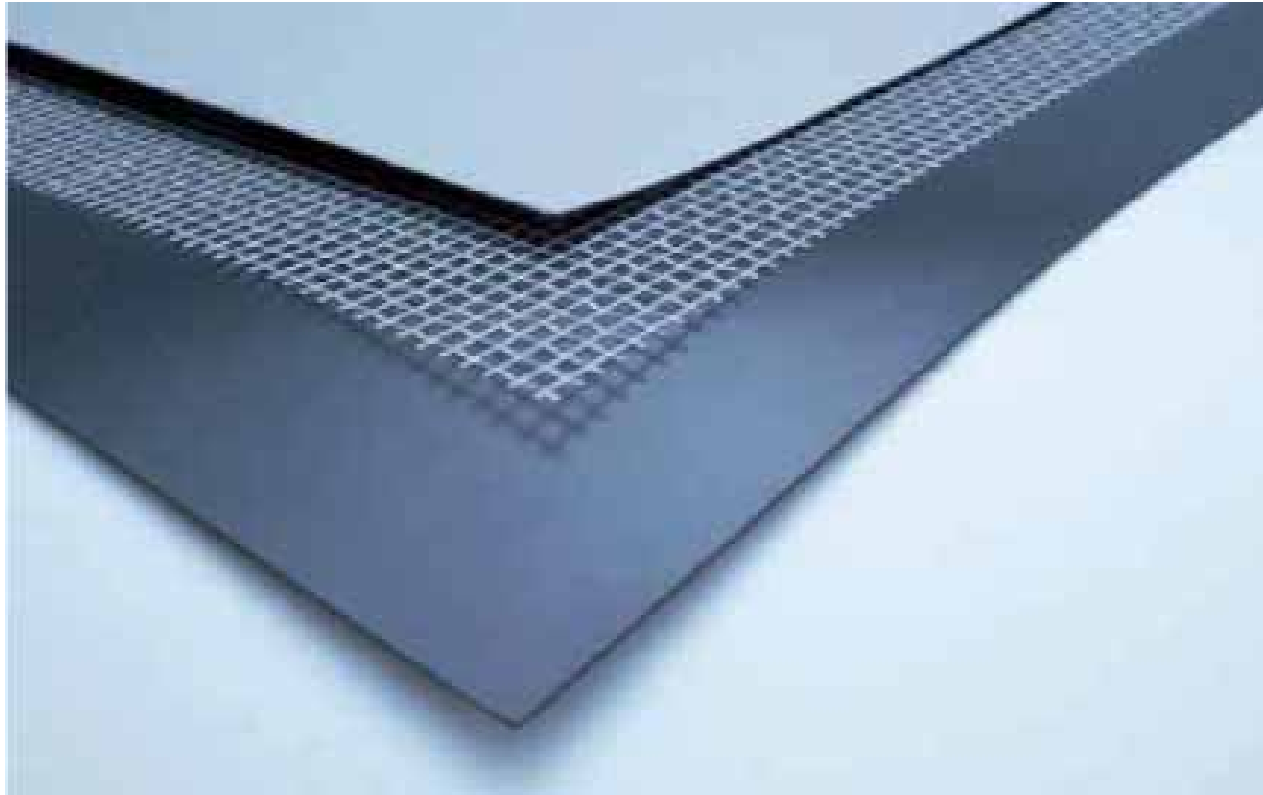
Membrane Reinforcement



Roofing membranes with glass-fleece armouring are used with loosely laid flat roofs which are ballasted with gravel or plants.

Roofing Materials

Membrane Reinforcement



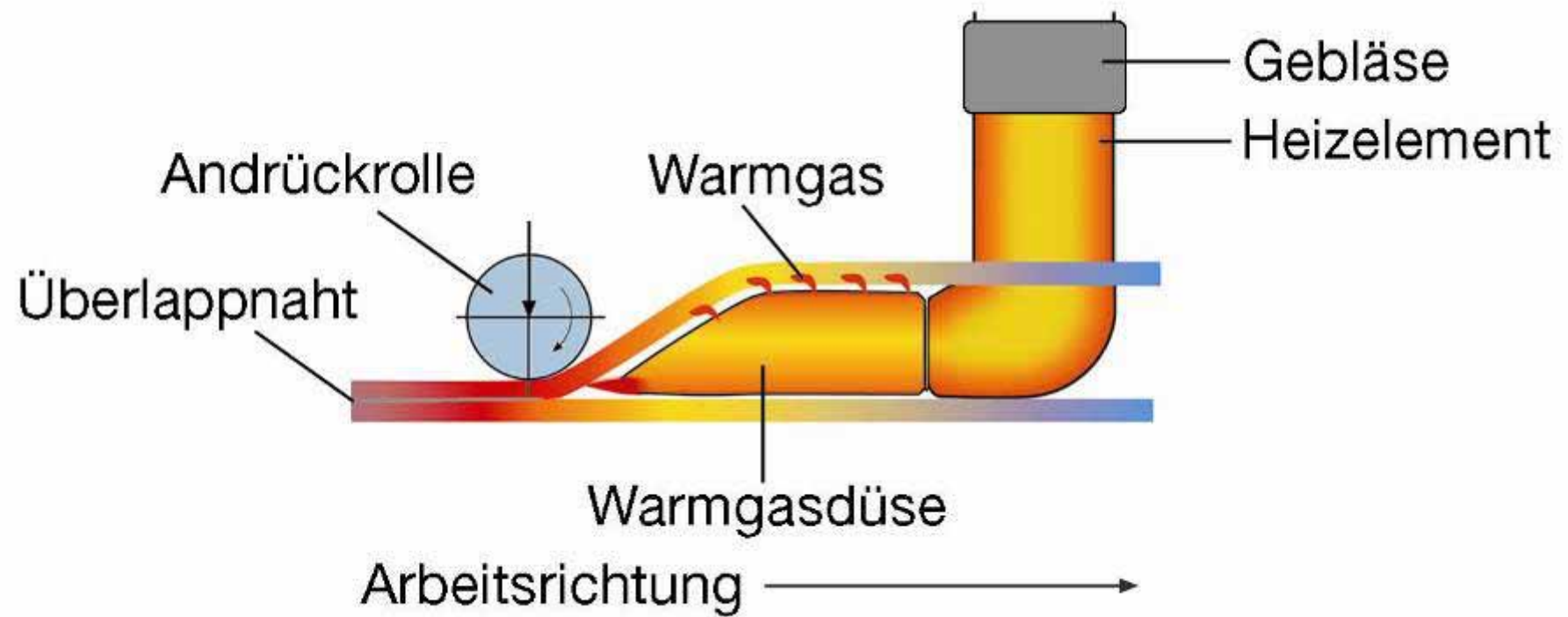
Roofing membranes with synthetic armouring (polyester) are used for mechanically fixed flat roofs. The material guarantees a high mechanical, biaxial stability at the fastening screws.

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Welding Procedure



Welding procedure



Welding procedure

Following welding procedures are possible

- Extrusion welding
- Hot wedge welding (heating element)
- Hot air welding

All welding procedures require an accordance of the following parameters:

- Temperature
- Pressure
- Speed

Joining areas must be dry and free of impurity. For T-joints the front surface of the upper membrane must be held slanted.

Welding procedure under construction site conditions

Condition of surface

- Solid underground with smooth surface without bumps (clean laying)
- Building sites should be free of sharp items, roots and stones.

Environment Conditions / Weather Conditions / Rain

- In case of rain it must not be welded without any special safety measures.

Air Temperature

- Welding procedures have to be stopped at temperatures under +5°C in order to prevent high thermal strains of the roofing membrane.

Welding procedure under construction site conditions

Air Humidity

- High air humidity might cause perspiration water on the welding surface which is unfavourable for the seam strength.

Wind

- Due to strong wind the required welding temperature might not be reached. To solve this problem, the welding temperature has to be increased up to 20–30°C. If the wind is too strong, the welding area should be protected, or the welding process has to be stopped.

Sunshine

- Sunshine causes strong heating up, especially of black roofing membranes. This causes an increased thermal expansion of the membrane and results in wrinkles. The welding process becomes more difficult, and when cooling down abnormal strain in the seam area occurs.

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Welding machines



Roofing machines overview



Plastic single ply

Bitumen

Criteria	VARIMAT V2	UNIROOF E	DRIAC DRIVE PID/ Guiding help	X84	COMET consolidated	BITUMAT B2
Main application	<ul style="list-style-type: none"> Main welding seam 	<ul style="list-style-type: none"> Complement to VARIMAT V2 Small roofs 	<ul style="list-style-type: none"> With guiding help welding in the vertical 	<ul style="list-style-type: none"> Consolidated membranes Constricted for main welding seams 	<ul style="list-style-type: none"> For assembling 	<ul style="list-style-type: none"> Main welding seams
Roofing construction	<ul style="list-style-type: none"> Flat/Slope roofs up to 30 grad Mechanical fixed Underground hard 	<ul style="list-style-type: none"> Flat/Slope roofs up to 30 grad Mechanical fixed Underground hard 	<ul style="list-style-type: none"> Flat/Slope roofs up to 30 grad Mechanical fixed Underground hard 	<ul style="list-style-type: none"> Slope roofs, constricted for flat roofs Loose lay Underground flexible 	<ul style="list-style-type: none"> Flat roofs indoor application Loose lay Underground flexible 	<ul style="list-style-type: none"> Flat/Slope roofs up Mechanical fixed Underground hard
Detail work	<ul style="list-style-type: none"> Constricted possible 	<ul style="list-style-type: none"> On parapet Roof edge, Coated roofs Narrow circumstances Slope roofs 	<ul style="list-style-type: none"> Narrow circumstances Bow welding At/on parapets Slope roofs 	<ul style="list-style-type: none"> Slope roofs Consolidated membranes 	<ul style="list-style-type: none"> For assembly membranes 	<ul style="list-style-type: none"> Constricted possible
Parapet distance to weld	110mm	190mm, for coated roofs no distance necessary	40mm	135mm	220mm	120mm
Electronic (close loop system)	yes	yes	Blower close loop controlled	No	No	No
Brush less blower	Yes	No	No	No	No	No
Drive speed Welding speed depended on material	0.7-12m 4-7m	1-5m 2-3m	0.5-3m 1.5-3m	0.5-3.5m 1.5-2.5m	0.8-5m 3-4m	0.8-12m 3-7m
Weight	35kg	12kg	4kg	6kg	7kg	42kg

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VARIMAT V2



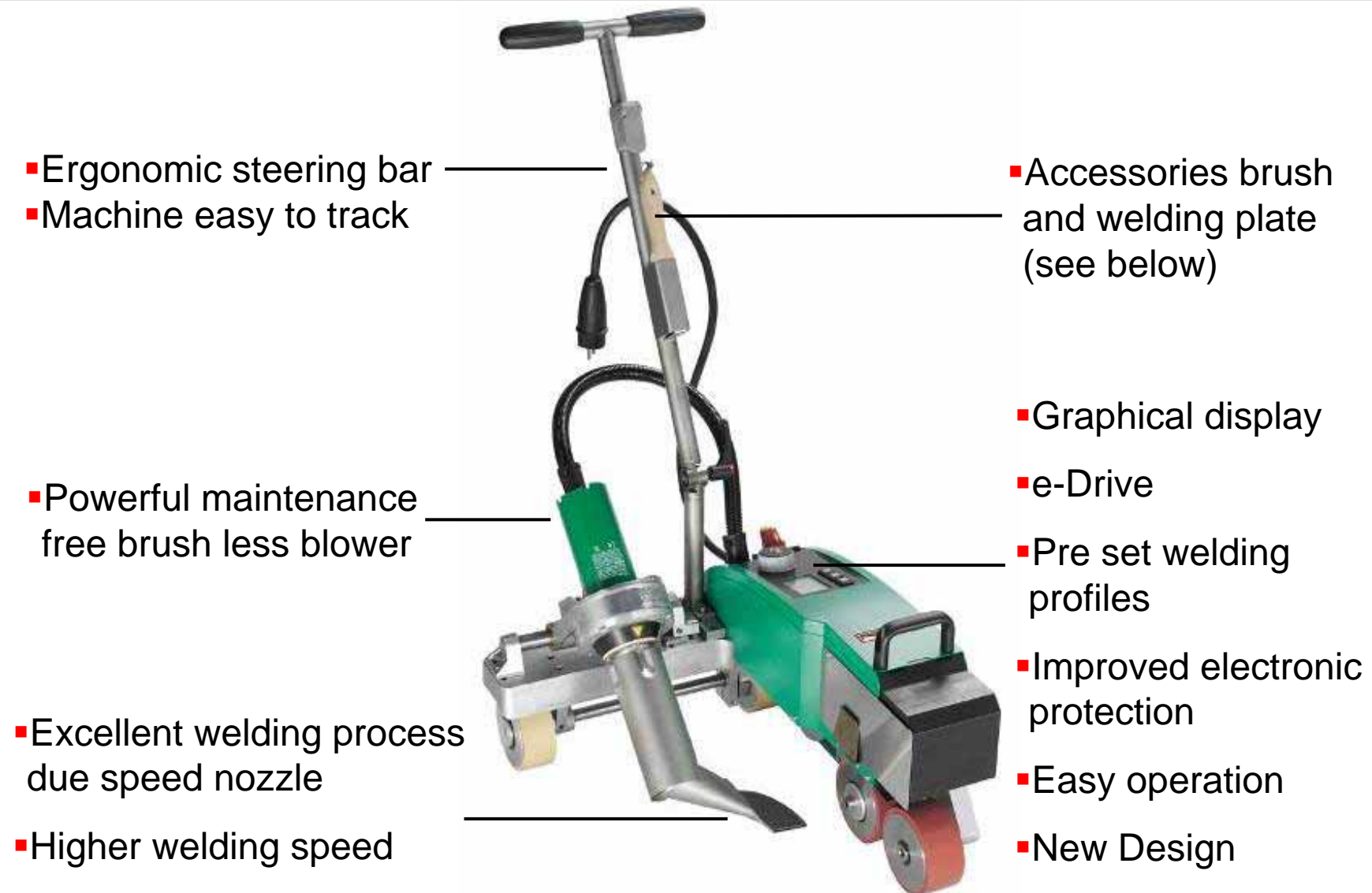
Agenda

- **History**
- **Competitors**
- **Description/ Concept**
- **Compare VARIMAT V/V2**
- **How to operate**
- **Benefits/ USP**

Competitors



Description/ Concept



Technical data sheet

Voltage	200V/ 230 / 400V	200V/230V/ 400V
Power consumption	W 4600 / W 5700	4600 / 5700
Temperature	°C 100-620	°F 212 -1148
Speed	m/Min.0.7-12	ft/min 2.3-39.4
Air flow range	% 50-100	%50-100
Speed nozzle width	mm 40	inch 25x17x13
Weight	kg 35	lbs 77
Engineering standards	s+, CCA, CE	

4 Versions

VARIMAT V2, 400V with CEE plug	137.821
VARIMAT V2, 230V with Schuko plug	138.108
VARIMAT V2, 230V USA with out plug	138.982
VARIMAT V2, 200V Japan plug	139.734

Brush less blower/ Nozzle

Maintenance free blower

- Brush less blower with more air pressure and air volume for faster welding and process security
- Maintenance free blower
- Improved speed nozzle
- Attention speed nozzle order only with V2 possible
- Patent pending



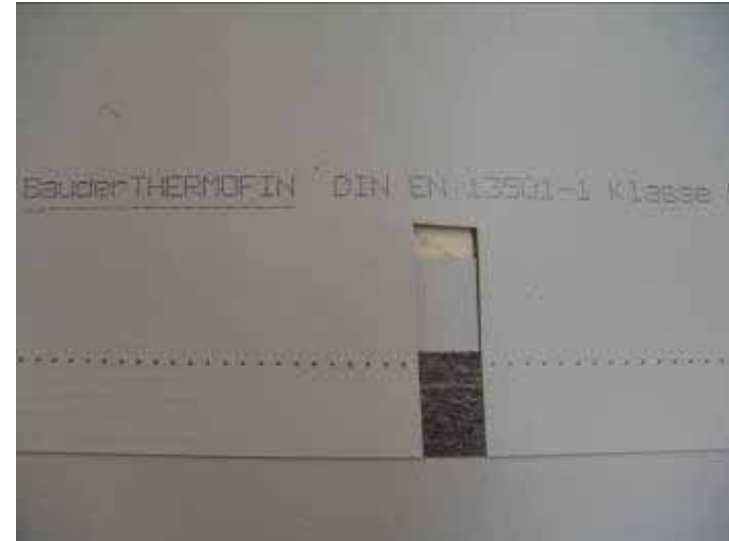
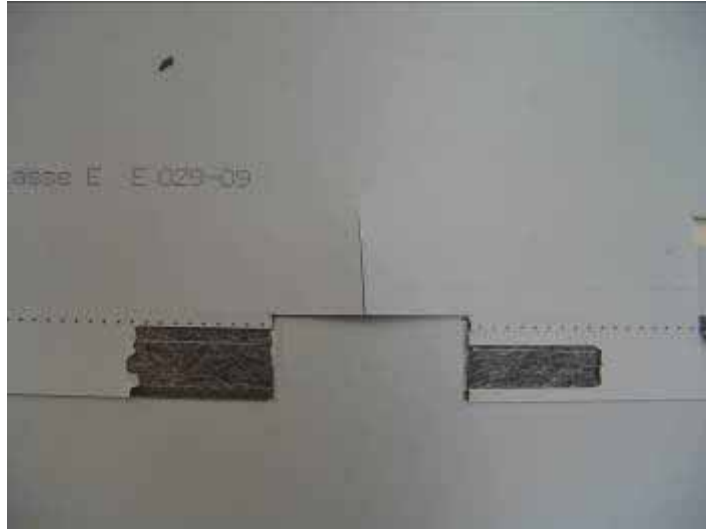
More speed and reliability

More value

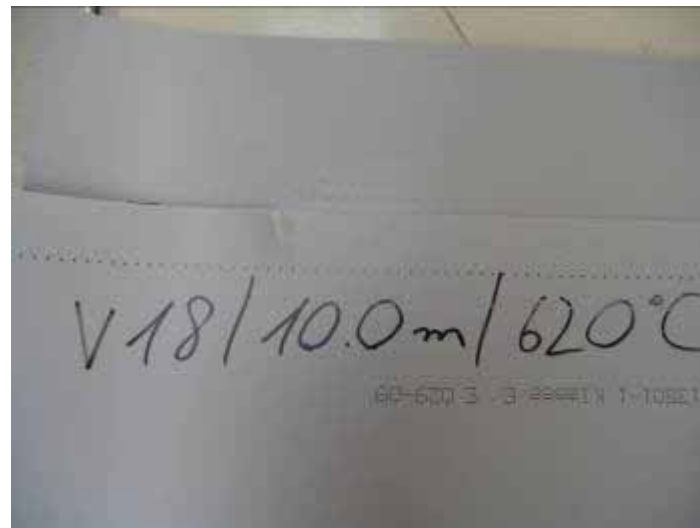
- More than 100% increased welding speed
 - Improved electronic due to high performance diode
 - Pre set welding profiles
 - Acoustical warning in case of errors
 - Cool down modus, at 60° 2 minute rundown time
 - Patent pending for display and nozzle
 - Unexpected prevention modus
 - Energy safety modus with standby
- The green tool!



Application tested



TPO 1.6mm material



Ergonomically steering bar

More ergonomic at the working place

- Continuously variable steering bar
- Shift of steering bar
- Steering bar to fold in into tool case
- Pivoted steering bar for forwards backwards



Ergonomically handle

More ergonomic at the working place

- Handle of for tool caring with out a case



- Easy transportation with crane hook



Tool case

More ergonomic at the working place

Step 1



Step 2



Step 3



- Robust and resistant
- Flexible handling because of wood
- Light 21.50 kg
- Easy to transport



Design

You will sell it better

- Modern design
- New labeling concept



High Process reliability

Tight roof

- High process reliability with air dam



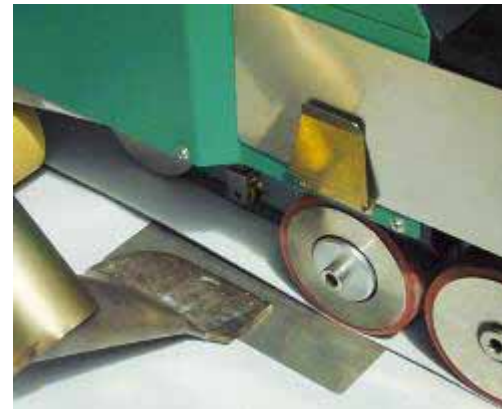
- Patented pendulum pressure roll for uneven welding



Brush

Accessories included

- Handy brush for nozzle cleaning
- Better welding process reliability
- Welding plate for better quality when start of welding



Accessories

- Handy brush for nozzle cleaning
- Better welding process reliability



- Welding plate for better quality when start of welding

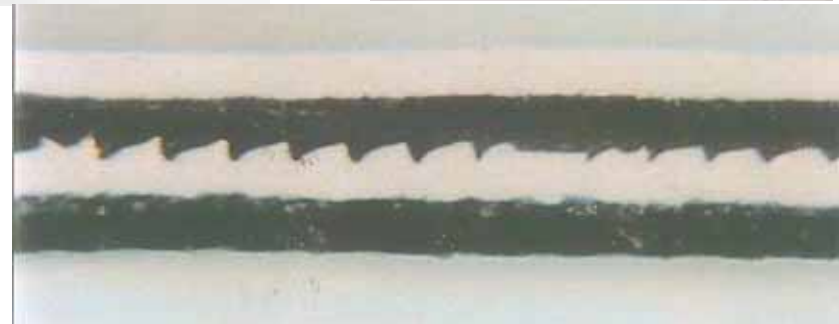


Accessories



Rough of TPO material outcome better thermoplastic welding

↳ Advantage no solvent necessary



Application

- Slope roofs up to 30 grade



Application

- Basic seams



Application

- End of the roof



Application

- Close to the wall



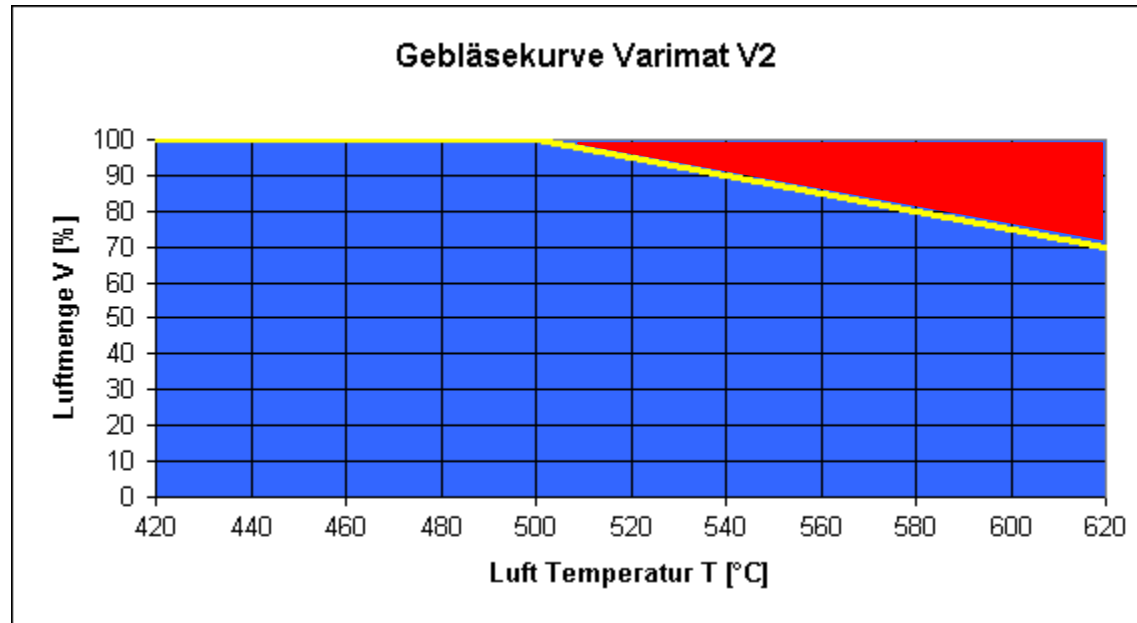
Comparison V2/V

Criteria	VARIMAT V2	VARIMAT V
Speed drive Speed welding	0.7-12m 0.7-10m	0.5-5m 0.5-4m
Air flow	25% more	
Blower	Brushless motor	Brush motor
Blower characteristics	New characteristics (see detail)	No characteristics
Operation	e-Drive push turn button	Button, double press operation required
Pre set welding profiles	Yes	No
Display	Graphical display	Character display
Electronic of MOSFET	Better protection due diode 1200V	Problems with ZPM and TRN due Diode 600V
Electronic	AZM is on TRN integrated one print	AZM and TRN separately
Ergonomic	Steering bar free adjustable less pressure necessary	Steering bar not free adjustable

Comparison V2/V

Criteria	VARIMAT V2	VARIMAT V
Standby	Yes, 5-120Min	No
Cool down modus	Yes, at 60° 2 minute rundown time	No
Acoustical warning	Yes, in case of errors	No
Crane hook	Yes	No
Speed nozzle	Adapted nozzle concept	Existing nozzle
Leister storage box	New mobile storage box	No
Accessories	Hand brush, solder plate	No
Cable management	0.5m cable length	5m cable length
Design	New modern design	Existing design
Service interval	2000 h till maintenance servicing	800 h till carbon brush change

Blower characteristic



- Adjust of blower characteristic combination of machine and human
- Yellow line, programmed curve
- Red area → * appears on air flow display, Temperature will be not achieved
- Blue area → Manually operation

How to operate

Graphical display patent pending

- Speed selection and Program-button

- Heat selection button

- Air volume selection button

- Elegant push-dial for adjustment and selection

- Self-explanatory user interface



- Press double button Speed/Heat and main switch to store a customized welding profile
- Attention: Welding profile programs still require test welding runs in advance!
- Press double button Heat/Air and main switch to display process values in percentage

- Speed selection pressed for 3 seconds displays the daily meter reading
- Speed selection pressed and select push dial for motor drive



- Heat selection pressed for 3 seconds displays voltage

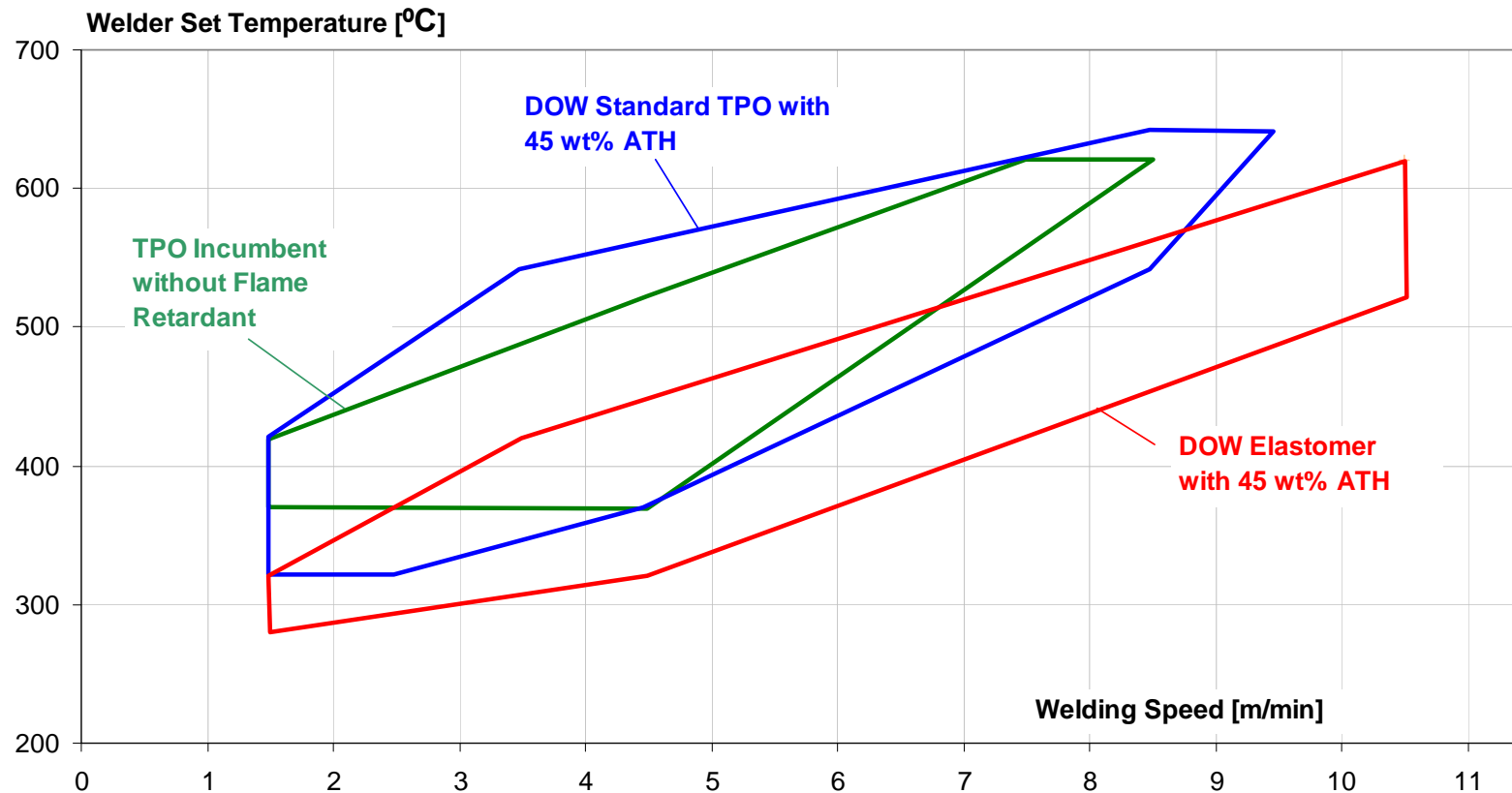
- Air volume reading only displayed if process value not 100%

Key for success

- We have to convince material manufacturer for new dimension in welding speed



Welding windows



Calculation of faster welding

Safe money with more speed


Calculation example:

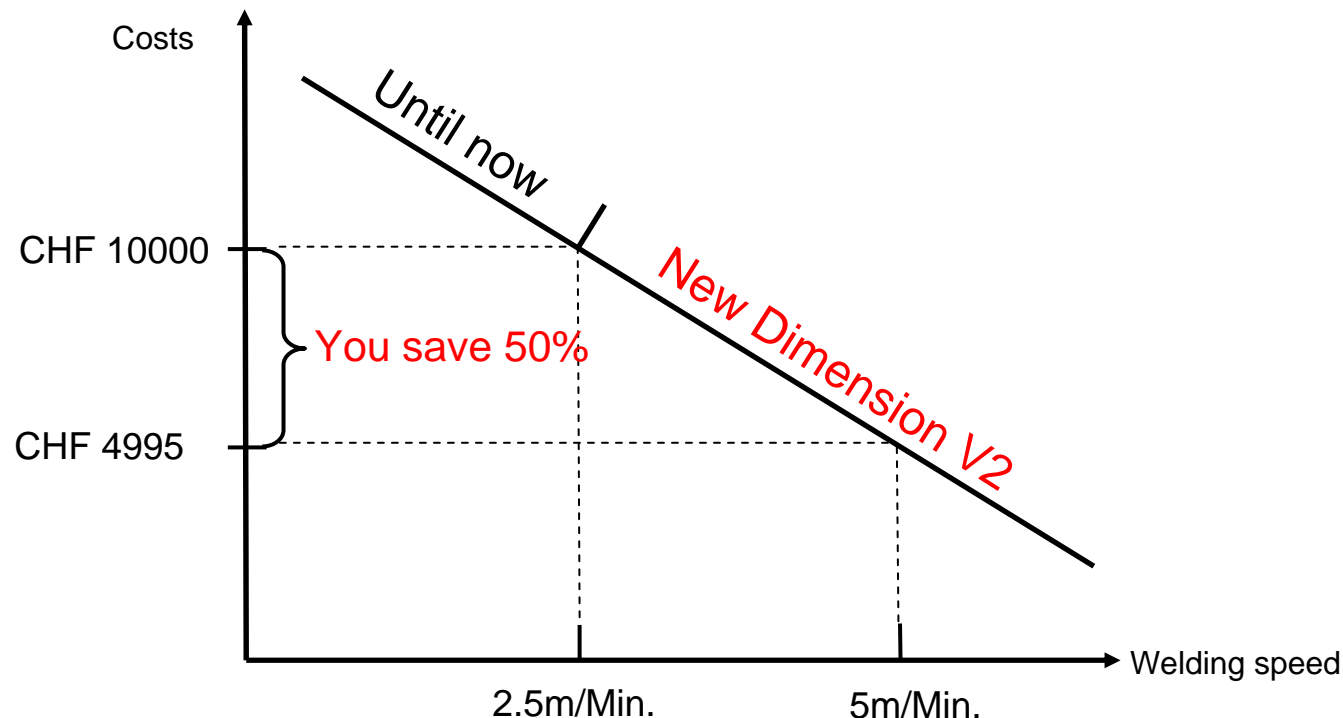
24000m² TPO membranes. Labour coast 75CHF/h

Existing roof machine speed 2.5m/Min.

24000m² : 1.2m sheet wide= 20000m to weld : 2.5m welding speed= 8000 Min. :60Min. = 133.3Std. x 75CHF= **10000 CHF**

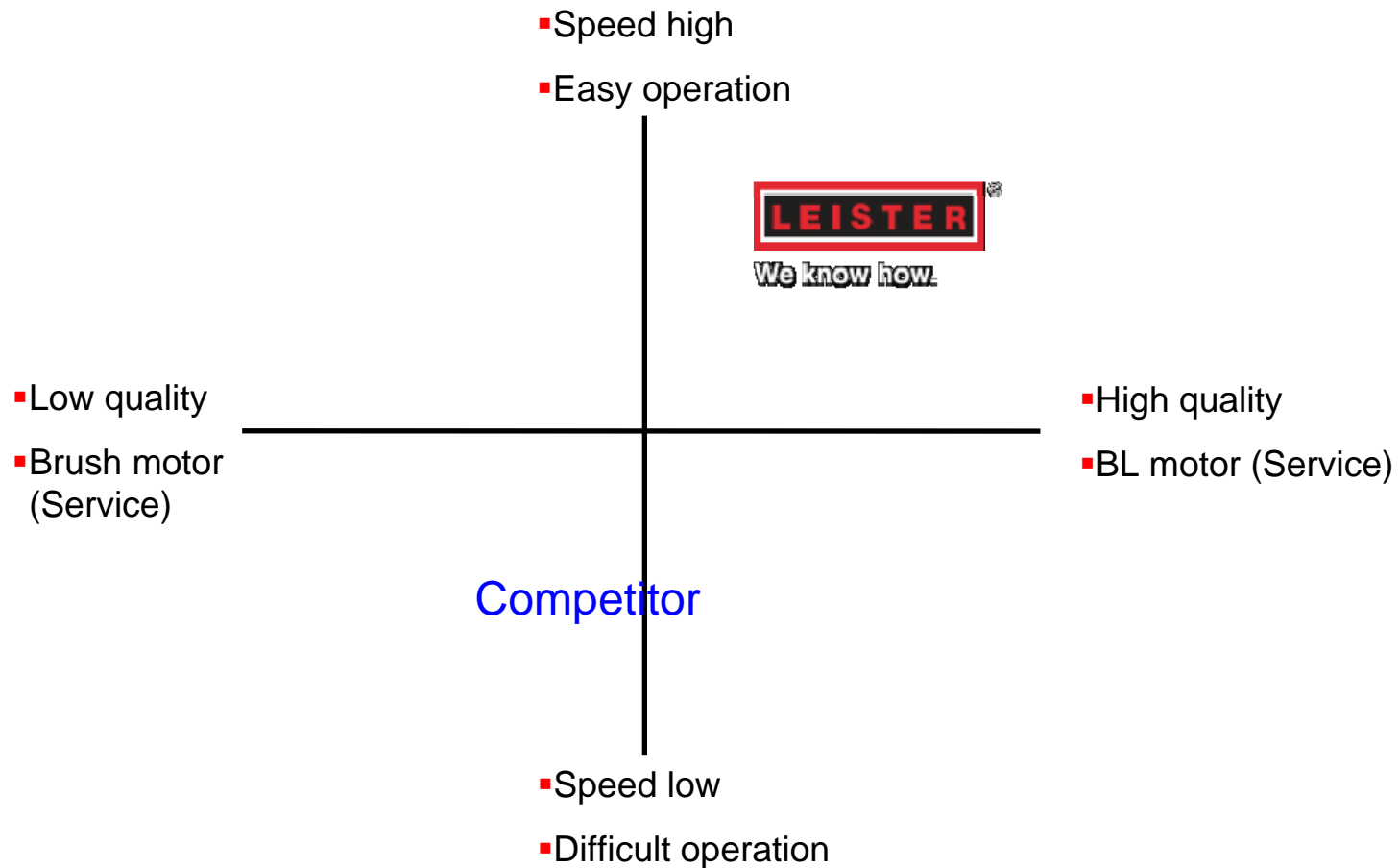
New VARIMAT V2 speed 5.0m/Min.

24000m² : 1.2m sheet wide= 20000m to weld : 5.0m welding speed= 4000 Min. :60Min. = 66.6Std. x 75CHF= **4995 CHF**  **You save 5005 or 50%**



Positioning

- One step ahead the others
- Leister sets the bench mark



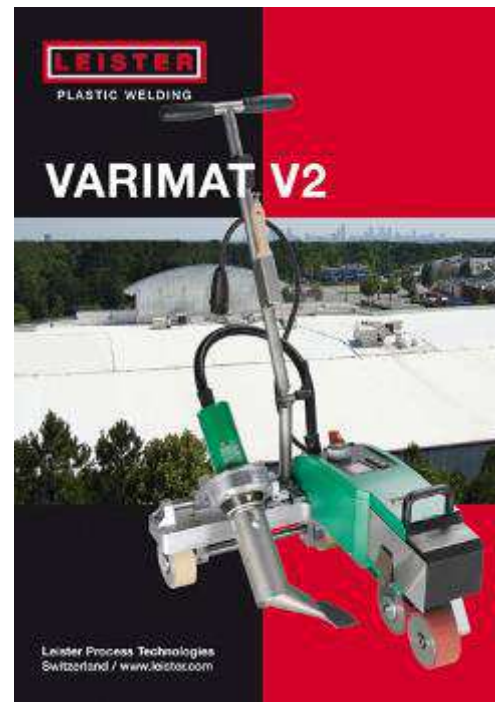
Sales strategy

- Contact material manufacturer
- Show profit of faster welding
- Extend of market position
- Every contractor worldwide needs V2 (Switzerland 1600 contractors)
- New sales arguments, BL motor, service, ergonomic, operation
- Better machine with same price



Marketing Instruments

- Starter kit
 - ↳ Roll up, Poster, Application DVD
- Advertisement template
- PR text
- Flyer
- Roofing brochure
- PowerPoint Presentation



Benefits/ USP

Safe costs

- Higher welding speed up to 10m
- Maintenance free blower
- Better electronic protection

Ergonomic

- Free adjustable steering bar

Safety

- Acoustical warning



Easy operation

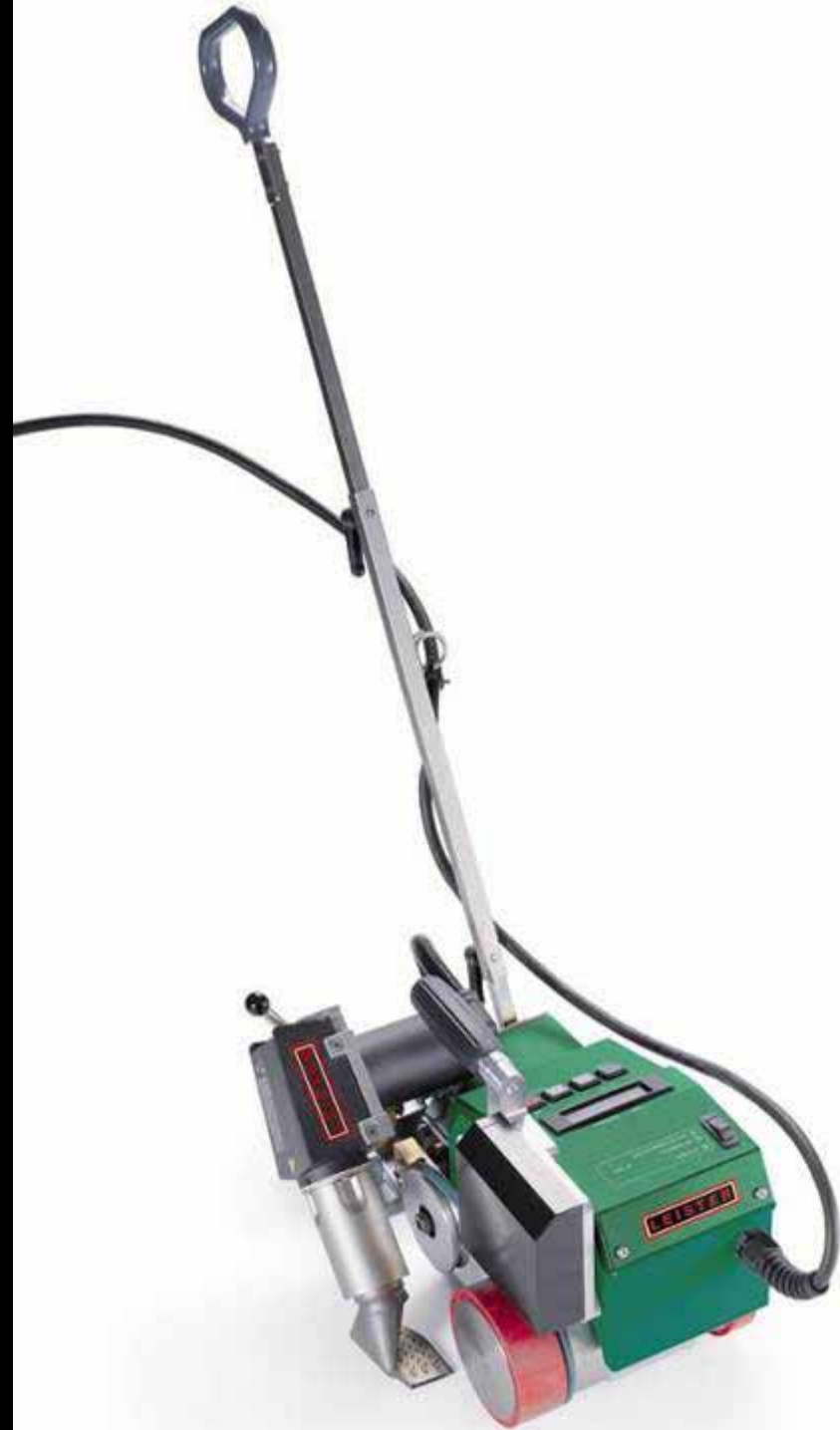
- e-Drive
- Graphical Display

VARIMAT V2 „best VARIMAT ever“





UNIROOF E



Light and compact for your detail work

Overlap welding for plastic membranes off PVC, TPO, ECB, EPDM and CSPE



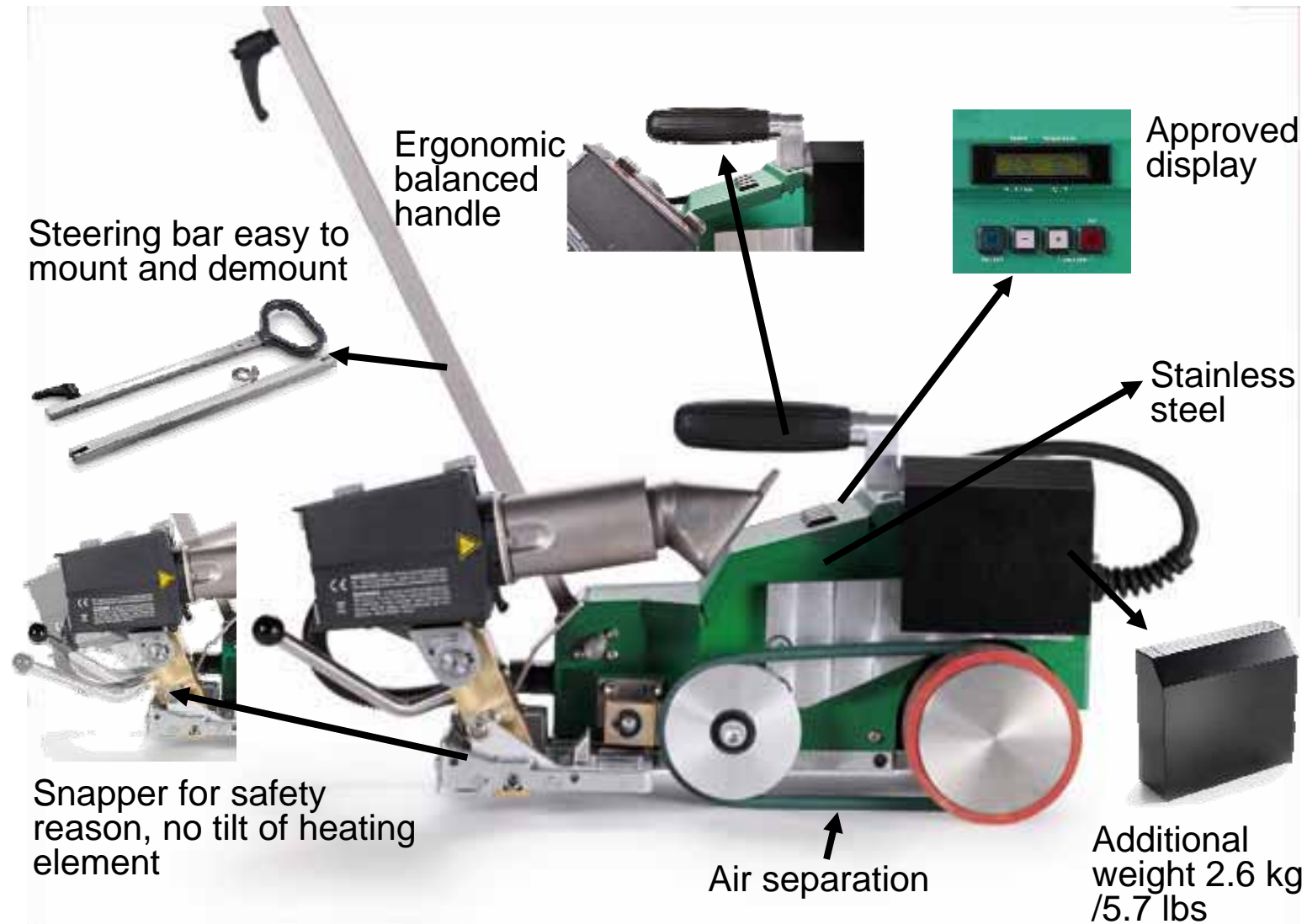
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Development of UNIROOF E


More drive strength with controlled electronic of Uniplan Wedge. Aligned for roof requirement.



Tool description



Technical data

Amp/ Voltage	A / V~	10 / 230
Frequency	Hz	50 / 60
Power consumption	W	2300
Temperature	°C / °F	20-600 / 68-1112
Air flow	l/min.	max. 300
Speed	m/min./ ft/min	1.0-5.0 / 3.3-16.4
Size (L x W x H)	mm / inch	420x270x210 / 16.5x10.6x8.3
Weight	kg / lbs	12.8 / 28.2
Welding seam width	mm / inch	30 / 1.2
Protection class I		
Marking of conformity		CE
Approval mark		SEV/ Electrosuisse
Certification scheme		CCA

Accessories



Grip nozzle TPO 125.685

- Welding with out preparation
- Fast welding process



Additional weight 107.067

- Tool less mounting
- Improved welding process
- 2.9 kg/6.4lbs



Lifting device 115.057

- Easy shifting to next welding seam



One storage case, one kit

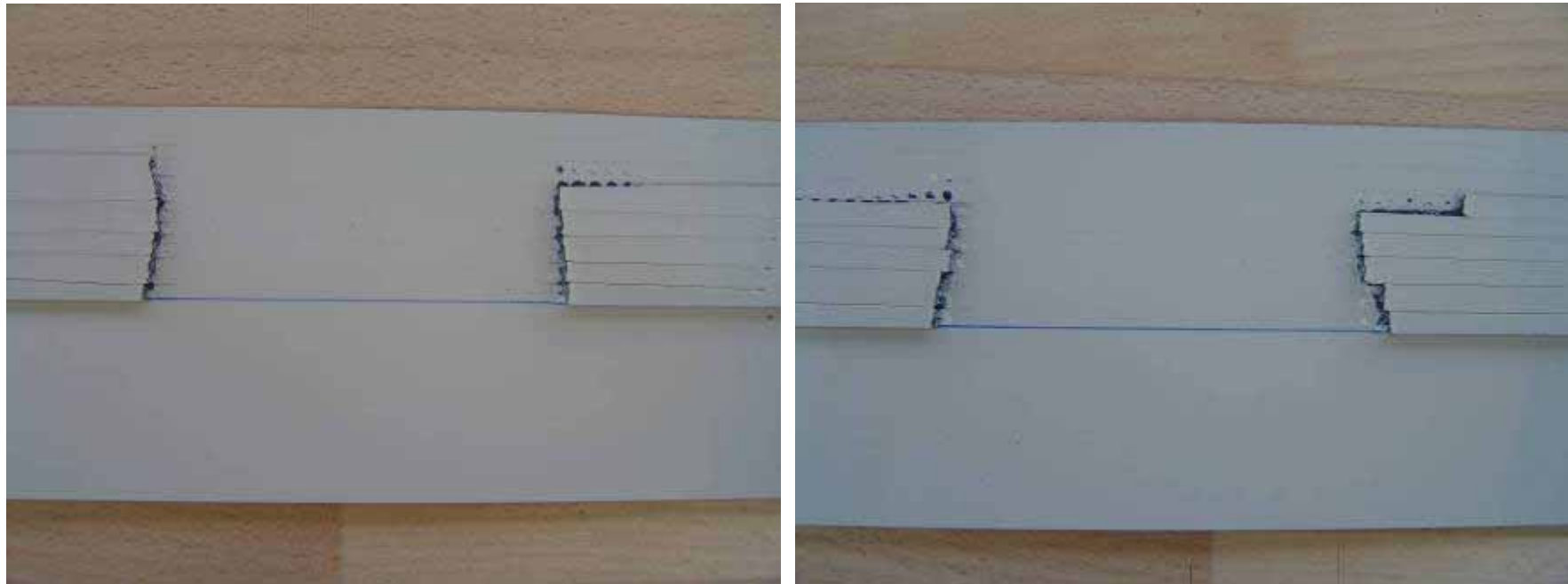
Kit contents part number 134.447:

- Tool case
- UNIROOF E
- Steering bar
- Handle
- Weight
- DVD application/ operation manual



Application Engineering

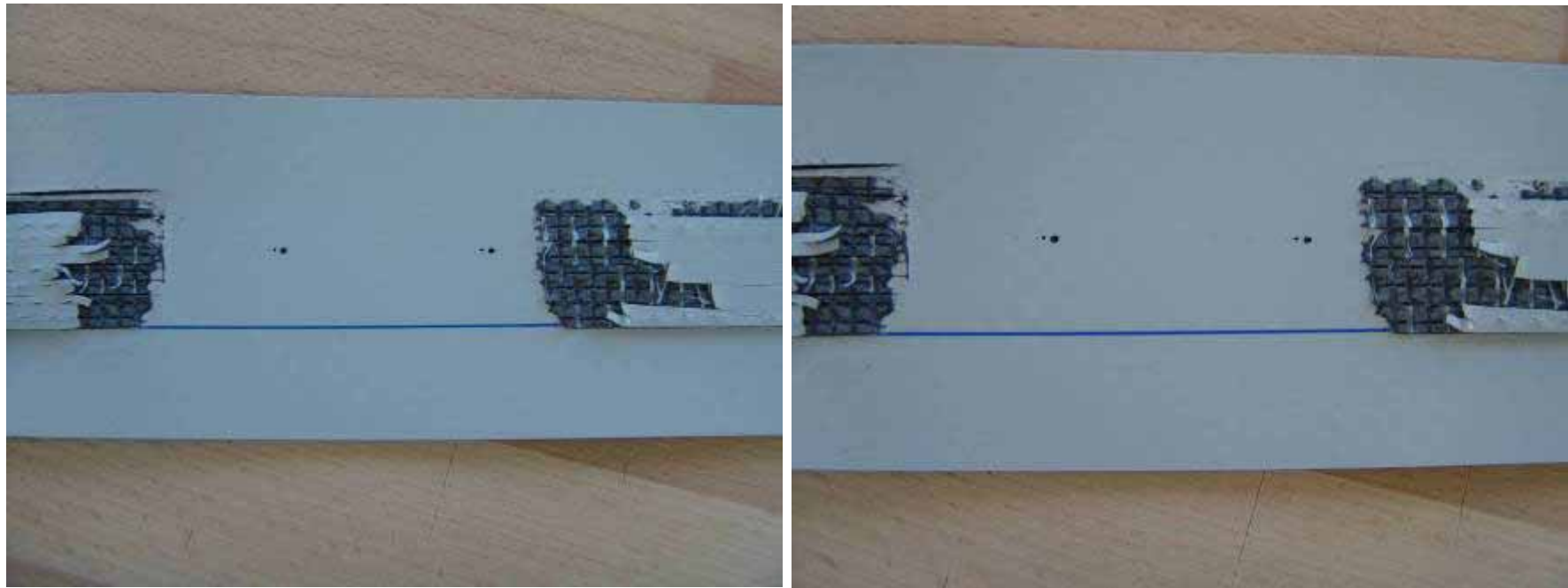
Sarnafil FPO plastic membranes TG 66-16



- UNIROOF E 2.5m/min 8 ft/min with solvent prep
- VARIMAT V2 Speed with standard Nozzle 6m/min, 20 ft/min

Application Engineering

Sarnafil plastic membranes PVC S327-15EL



- UNIROOF E 2.0m/min 6.5 ft/min
- VARIMAT V2 Speed with standard Nozzle 6m/min 20 ft/min

Application

- Coated metal roofs
- Narrow circumstances
- Parapet
- Steep slope roofs up to 30°
- Bend welding
- Edge close zones
- Clad metal
- Terraces
- Renovation
- Repairs
- Small roofs
- Summer cottages



Application

Narrow circumstances



Application

Coated metal roofs on **edge close zones**



Application

Parapet



Application

Parapet



Application

Steep slope roofs



Application

Bend welding



Get more

Handling

- Weight only 13kg /28 lbs
- 10A/230V machine
- Compact size
- Complete tool set
- Ergonomic handling
- Aligned for roof requirement

Techniques

- Closed loop controller
- Approved operating display
- Stable voltage controller

Reliability

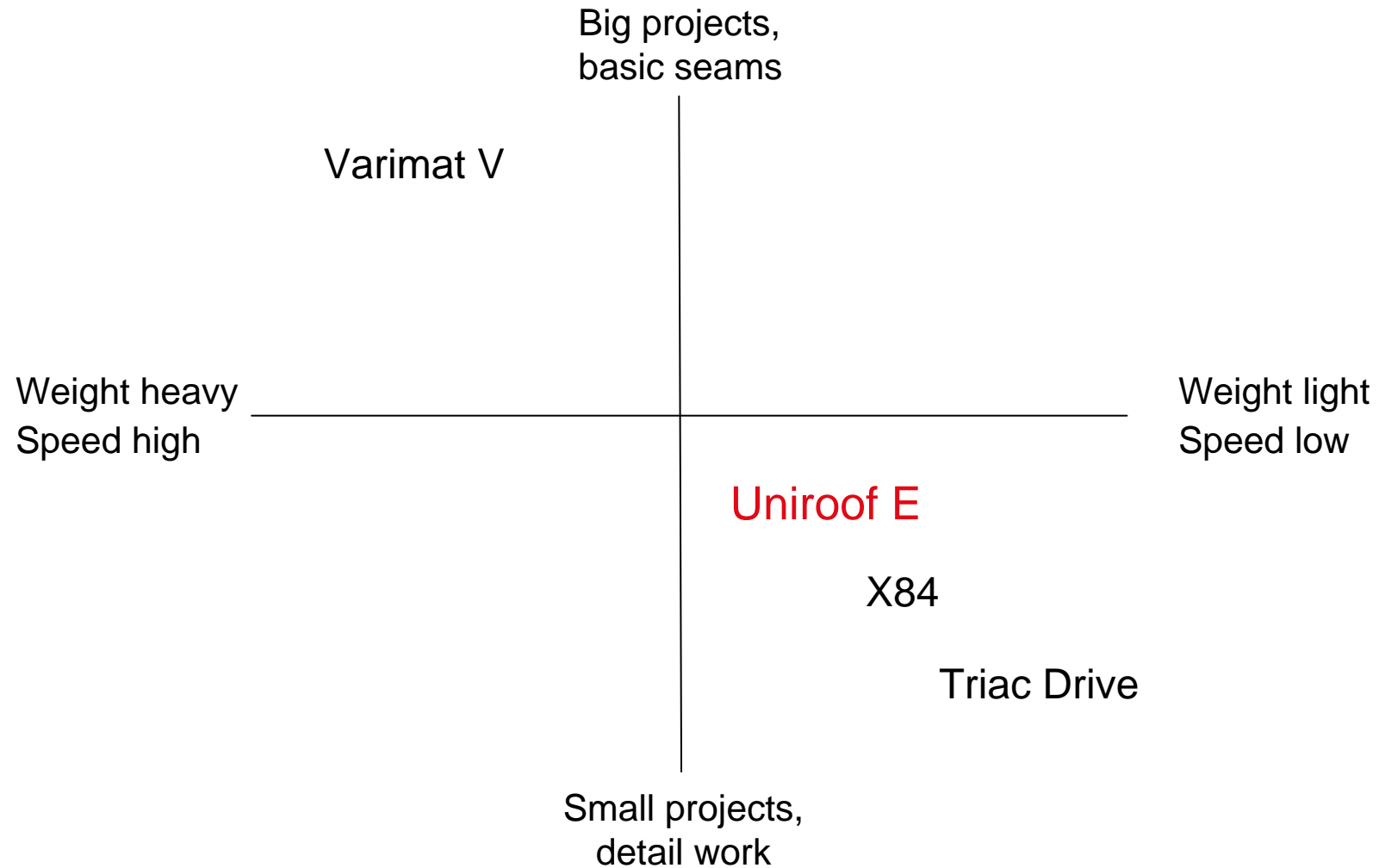
- Prevention of unexpected start up
- Snapper for heating element
- Approved machine with field tests

Power

- Strength driving motor
- Slope roofs up to 30°



Positioning machines



UNIROOF E to complement your roof for plastic membranes

Everywhere there you cant take the Varimat V, take the Uniroof E.





BITUMAT B2



BITUMAT B2

Aligned BITUMAT also for thin Bitumen sheets

■ New ergonomic steering bar

■ 400V version running with 16 Amps

■ Accessories brush and welding plate (see below)

■ Easy operation

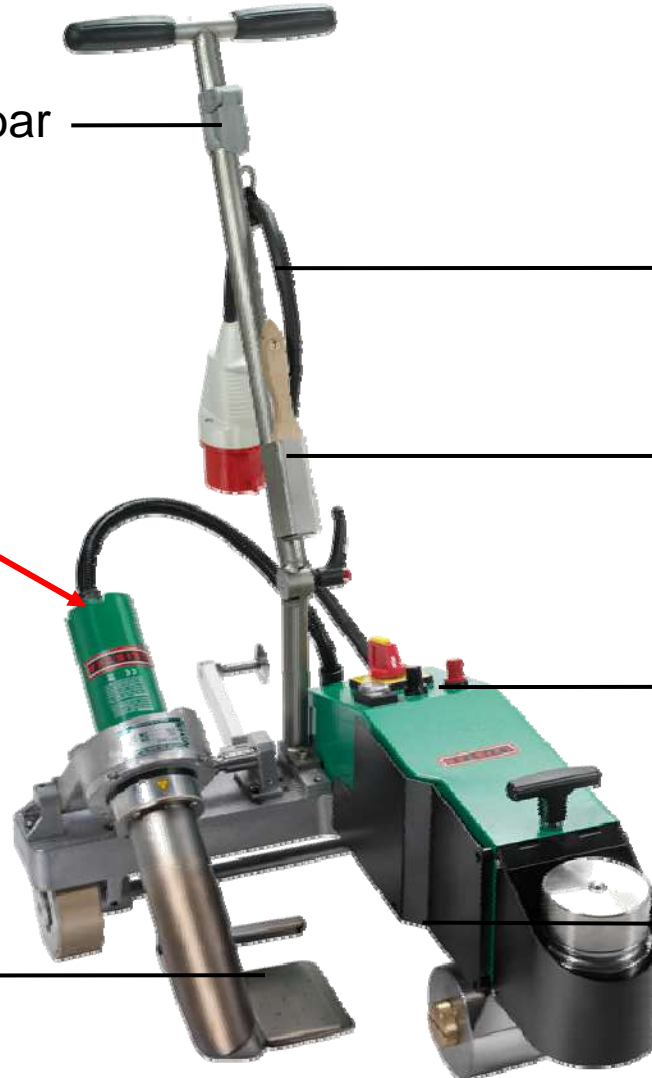
■ Better welding process with air dam

■ New with air control!



■ Improved nozzle shape for better bring in

■ Adapted pressure roll for smooth welding process



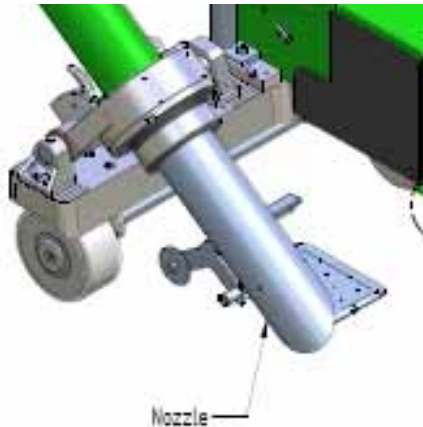
What is new?

- Adapted for thin bitumen membranes
- Better nozzle wedge
- Green air dam
- Guiding bar
- 400V Version with 16A
- Lift up device as accessories



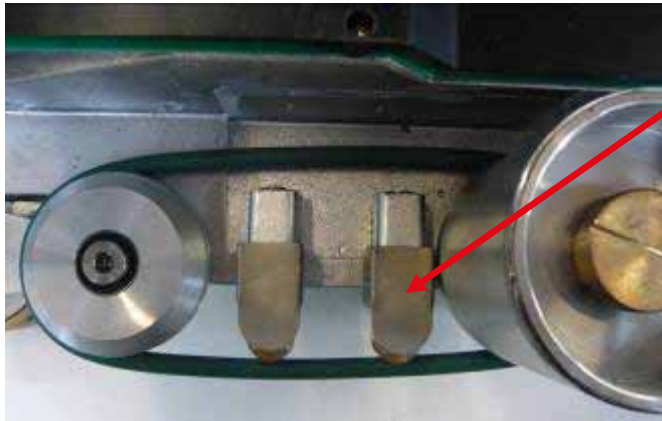
Differences to existing BITUMAT

Nozzle



- New wedge nozzle shape for better bring in
- No nozzle horns any more

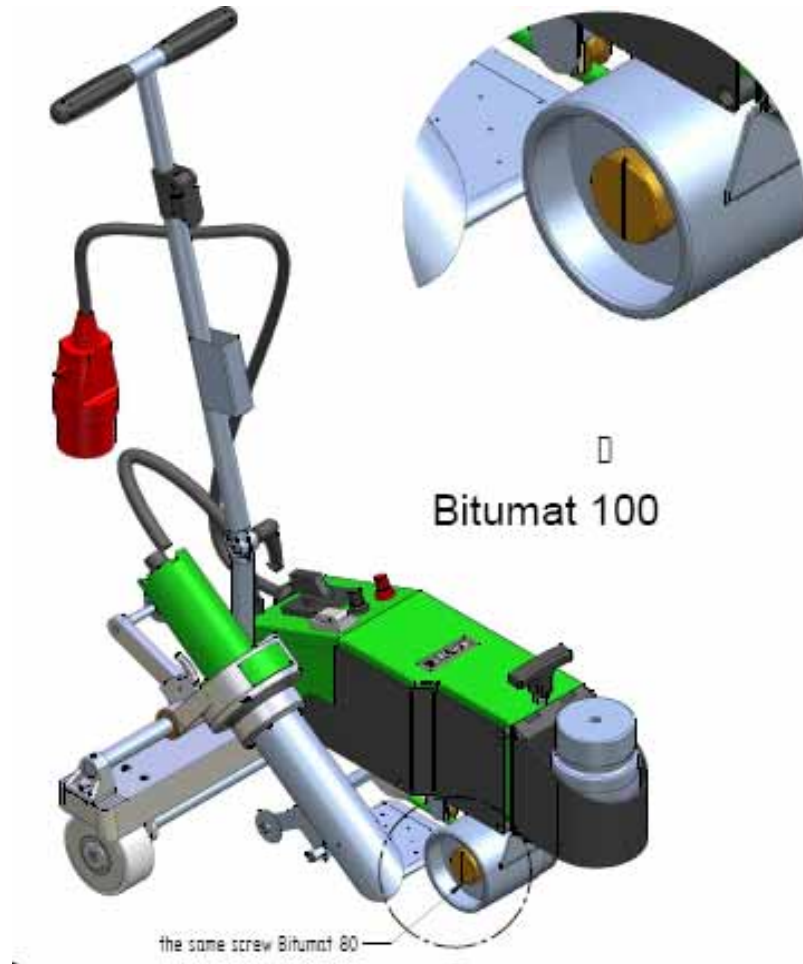
Air dam belt



- Air dam belt for excellent welding process
- Safety cover against Bitumen splashes

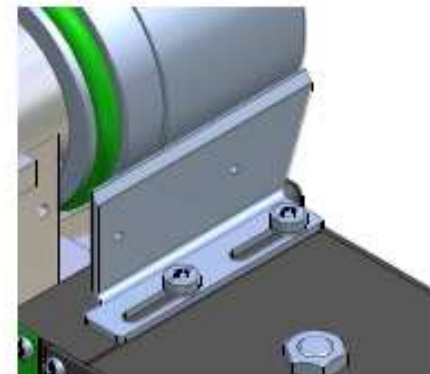
Differences to existing BITUMAT

Pressure roll



- One screw for 100mm and 80mm pressure roll

Bitumat 75



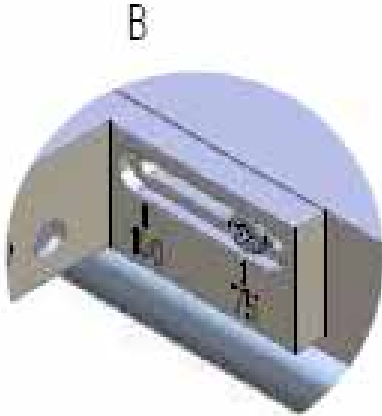
- Adapted pressure roll
- Pressure roll is driven only on the welding seam
- Adjustment of wiper

Weight and pressure roll in one



Differences to existing BITUMAT

Adjustments

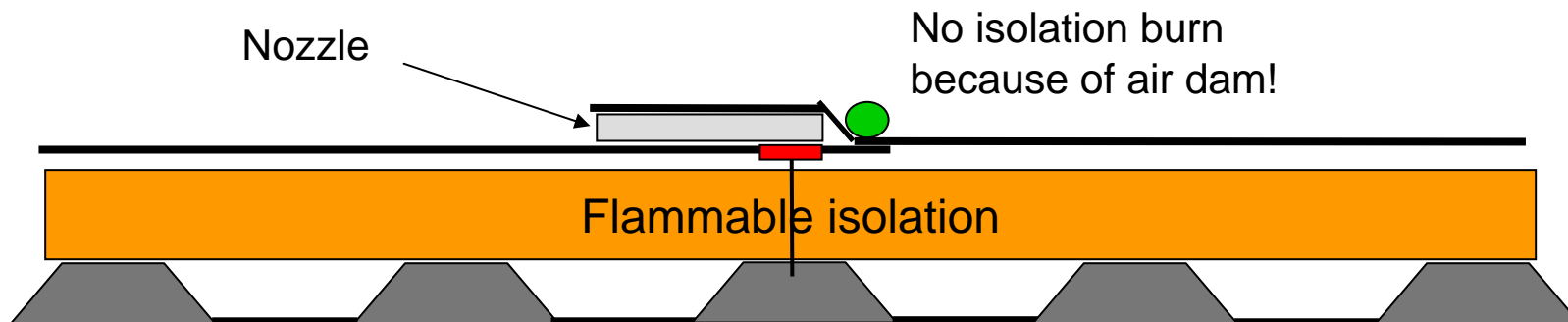


- Guide for adjust 100mm and 75mm nozzle position



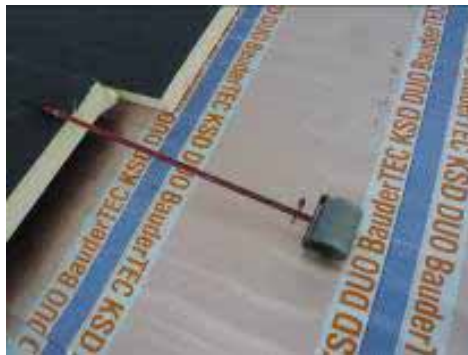
- Adjustable blowing arrester for 100mm and 75mm nozzle position

Sales argument for BITUMAT



Calculation for 2000m² surface one layer:

- Building owner is saving money because of cheaper insulation 1.8Euro x 2000m² = 3600 Euro
- Material manufacturer earn more many with insulation plate than with membranes
- For torching you need two people (pressure roll)



Sales argument for BITUMAT

Which one is better?

Torch open flame

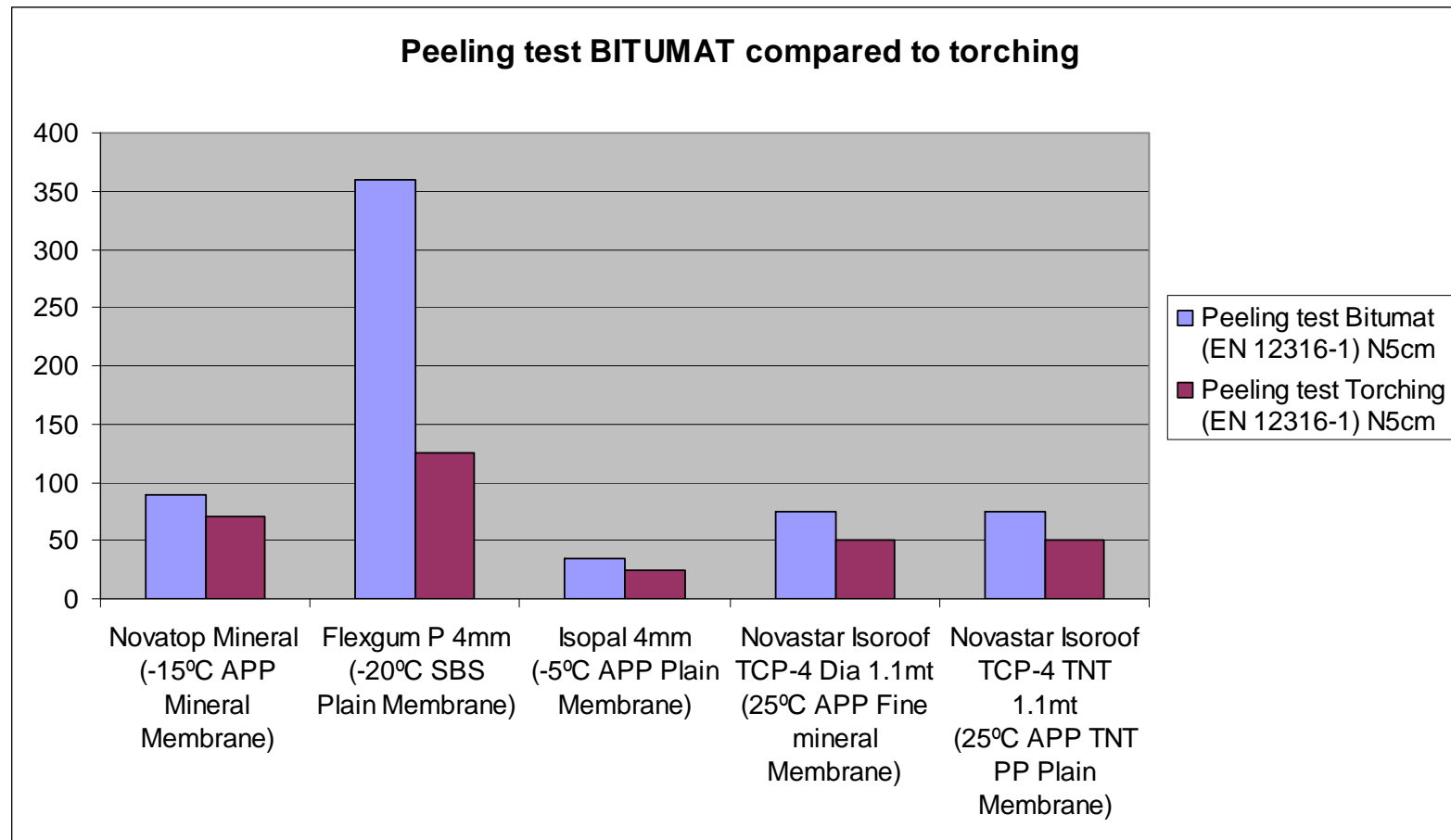


BITUMAT



Sales argument for BITUMAT

- Better welding quality



Sales argument for BITUMAT



Main field of application

1. Cold roofs, open flame is forbidden
2. Single ply systems
3. Two layer systems, for the first layer EGV 3mm
4. Wooden constructions



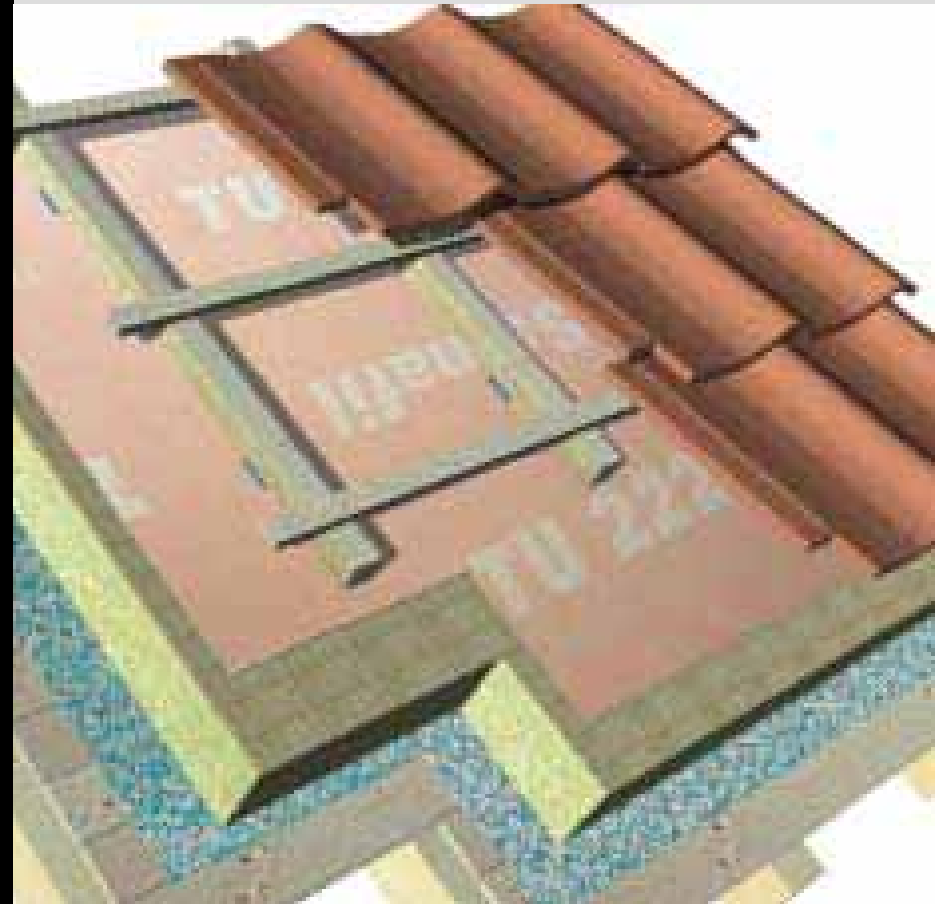
Sales argument for BITUMAT B2

- Flameless modified bitumen welding
- Perfect alternative to the hazard of propane burners
- Easy to operate (one operator, saves money)
- Clean welding process
- Consistent welding results
- Higher peeling force
- High welding speed
- 400V version running with 16 Amps



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X 84



Light and handy



The X 84 is used in Central Europe on pitched roofs and flat roofs (loosely laid).

FEATURES:

- Small, light and compact
- Applicable independent of surface
- Constant welding pressure
- Controlled welding speed
- Choice of two levels for airflow

Application

Loosely laid flat roofs



Loosely laid pitched roofs





TRIAC DRIVE PID



Universal applicable

TRIAC DRIVE PID



The X 84 is used in Central Europe on pitched roofs and flat roofs (loosely laid).

FEATURES:

- Small, light and compact
- Applicable independent of surface
- Constant welding pressure
- Controlled welding speed
- Choice of two levels for airflow

Application range

On the edge



Channel



Application range

Bow welding



Channel



Application range

TRIAC DRIVE close to the parapet

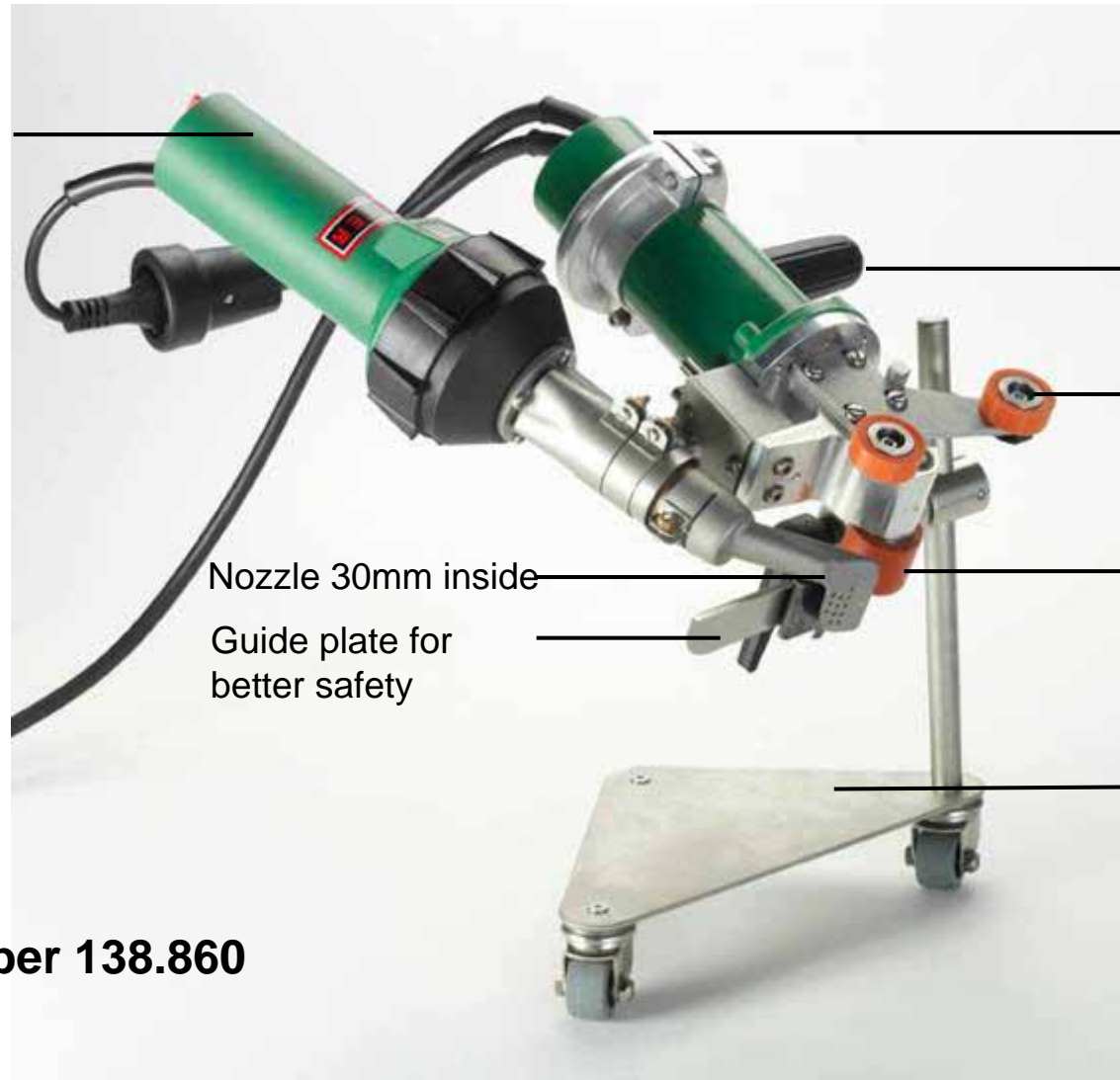


TRIAC DRIVE on the parapet



TRIAC DRIVE PID with guide help for stretched connections

TRIAC PID
controlled hot-
air tool



Driving unit

Guide handle

Silicon roller 12 mm
for better horizontal
hold

Silicon roller 30mm
for better horizontal
hold

Undercarriage

Nozzle 30mm inside

Guide plate for
better safety

■ Article number 138.860

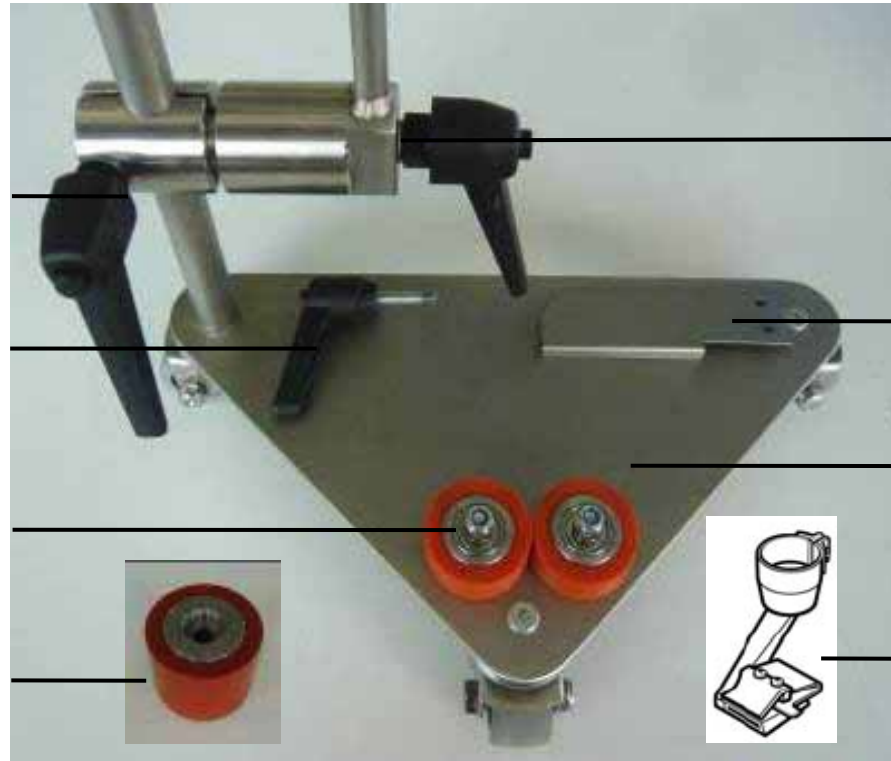
Guiding help set

steplessly height adjustable

Catcher for TRIAC fixing

Silicon roller 12mm for better horizontal hold

Silicon roller 30mm equalizes bruises



Inclination steplessly adjustable

Guide plate for nozzle with visual guidance

Leister quality chrome steel base plate

Overlap welding nozzle inside 30mm

■ **Article number set 138.549**

Technical data

- **Height adjustability:** 13-36 cm stepless
- **Construction:** chrome steel, base plate with rollers
- **Welding angle:** Inclination steplessly adjustable
- **Weight:** 1.6 kg



Applications

- Stretched connections parapet



Applications

- Better guidance on flat area



Applications

■ TRIAC DRIVE along fascia



■ TRIAC DRIVE on fascia



Get more

- Ergonomic welding
- Multifunctional
- Handy and light
- Height adjustable
- Replacement for PERIMAT
- Re-launch of TRIAC DRIVE PID



Accessories

115.283

115.279

115.281

115.699

115.701

115.703



Überlappschweisssdüse 12 mm, mit Grip, innen, aufschiebbar

Überlappschweisssdüse 30 mm, mit Grip, innen, aufschiebbar

Überlappschweisssdüse 38 mm, mit Grip, innen, aufschiebbar

Überlappschweisssdüse 12 mm, ohne Grip, innen, aufschiebbar

Überlappschweisssdüse 30 mm, ohne Grip, innen, aufschiebbar

Überlappschweisssdüse 38 mm, ohne Grip, innen, aufschiebbar

115.282

115.278

115.280

115.698

115.700

115.702



Überlappschweisssdüse 12 mm, mit Grip, aussen, aufschiebbar

Überlappschweisssdüse 30 mm, mit Grip, aussen, aufschiebbar

Überlappschweisssdüse 38 mm, mit Grip, aussen, aufschiebbar

Überlappschweisssdüse 12 mm, ohne Grip, aussen, aufschiebbar

Überlappschweisssdüse 30 mm, ohne Grip, aussen, aufschiebbar

Überlappschweisssdüse 38 mm, ohne Grip, aussen, aufschiebbar

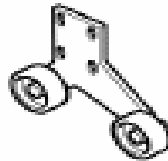
Accessories

115.274
115.176
115.186



Andrückrolle 12 mm
Andrückrolle 30 mm
Andrückrolle 38 mm
> **TRIAC DRIVE PID**

115.275



Stützträger zweifach

> **TRIAC DRIVE PID**

115.276



Stützträger einfach

> **TRIAC DRIVE PID**

115.284



Handgriff

> **TRIAC DRIVE PID**

Accessories seam probe tester



- Easy test of welding seam
- Ergonomic
- Lets talk about Leister and not discount
- Art. 138.314





**COMET for
consolidated
roofs**



COMET consolidated

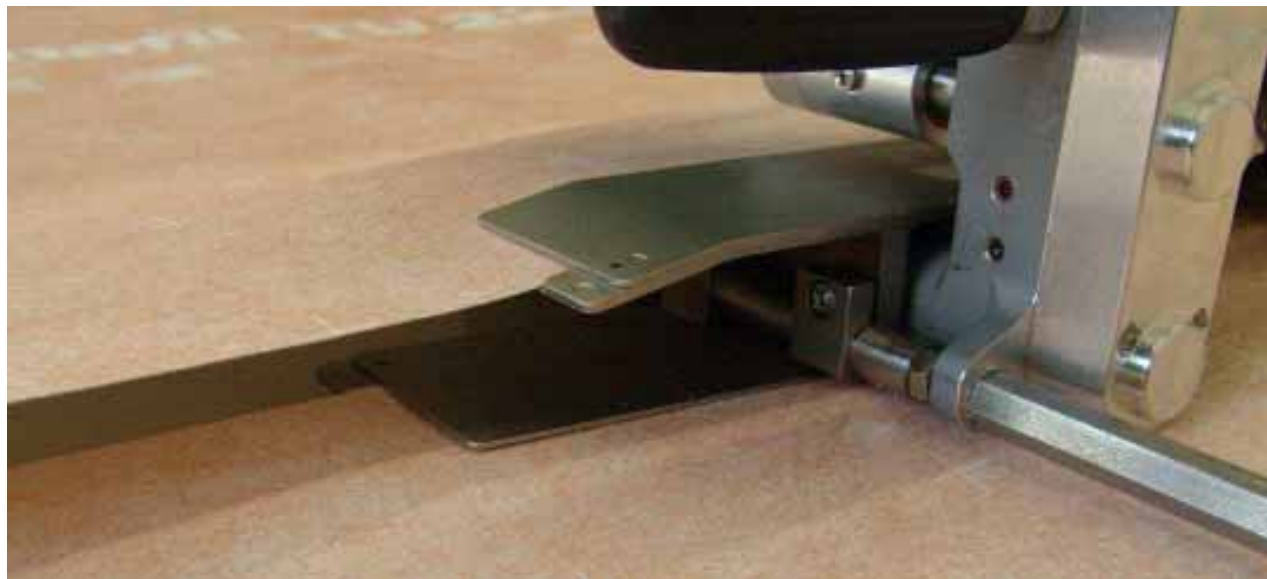
Aligned for assembling



COMET consolidated

Technical data

- Weld of consolidated roofing membranes till 0.8mm
 - o.E Sarnafil TU 222 und SUCOFLEX CU/V0.8.
- Suggested welding settings 230°C, 4/min
- Suggested overlap 6cm
- Wedge 30mm width / two heating cartridge
- Welding speed 7m/Min



Applications

Welding of consolidated roofing membranes for assembling



Sales argument

- Terminated overlap weld with out left over overlap
- Guiding help for automatic material entering
- Because of heating wedge indoor welding possible
- Automatic device guiding
- Aligned for assembling





Hand tools



TRIAC PID

With stepless temperature control and electronic monitoring, the Triac PID is the preferred hand tool for works with high quality.



FEATURES:

- Reproducible results thanks to digital display of set and actual temperature
- Constant temperature independent of voltage fluctuations and ambient temperature
- Adaptor tube with heat protection
- Electronic heating element protection
- Motor shut-off at minimal carbon level
- Suitable for continuous operation
- Multiple replacement of carbon brushes possible

TRIAC S


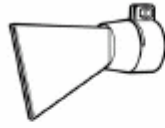
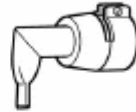


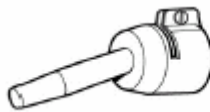
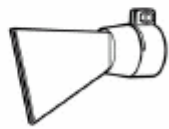

The most sold hand tool.

FEATURES:

- Adaptor tube with heat protection
- Electronic heating element protection
- Motor shut-off at minimal carbon level
- Multiple replacement of carbon brushes possible
- Suitable for continuous operation



Accessories for TRIAC

107.123		Wide slot nozzle 20 mm, push-fit > TRIAC PID > TRIAC S	107.131		Wide slot nozzle 80mm, push-fit > TRIAC PID > TRIAC S
107.124		Angled nozzle 20 mm, 90°, push-fit > TRIAC PID > TRIAC S	107.132		Wide slot nozzle 40 mm, push-fit > TRIAC PID > TRIAC S
107.125		Angled nozzle 20 mm, 60°, push-fit > TRIAC PID > TRIAC S	100.303		Tubular nozzle Ø 5 mm, push-fit > TRIAC PID > TRIAC S
107.129		Wide slot nozzle 60 mm, push-fit > TRIAC PID > TRIAC S			
107.130		Wide slot nozzle 40 mm, 60° bent, push-fit > TRIAC PID > TRIAC S			

HOT JET S

The most compact hand tool from Leister: HOT JET S' low weight of only 600 grams incl. cord and slim handle, ensures fatigue-free working.



FEATURES:

- Worldwide the smallest hand tool
- Electronic steplessly controlled temperature
- Electronic steplessly controlled airflow
- Electronic heating element protection
- Low noise
- Integrated flexible tool stand

Zubehör HOT JET S

107.142



Breitschlitzdüse 20 mm, aufschiebbar

> HOT JET S

107.144

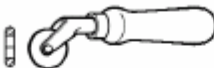


Rohrdüse Ø 5 mm, aufschiebbar

> HOT JET S

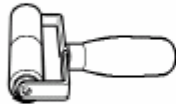
Sonstiges Zubehör

106.972



Andrückrolle kugelgelagert (Messing)

106.974



Andrückrolle 80 mm (Silikon)

106.975



Andrückrolle 40 mm kugelgelagert,
einarmig (Silikon)

106.976





Andrückrolle 28 mm (PTFE)

106.977


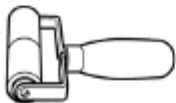





Andrückrolle 28 mm (Silikon)

Accessories for HOT JET S

107.142		Wide slot nozzle 20 mm, push-fit > HOT JET S
107.144		Tubular nozzle Ø 5 mm, push-fit > HOT JET S

Other Accessories

106.972		Pressure roller with ball bearings (brass)
106.974		Pressure roller 80 mm (silicon)
106.975		One-arm pressure roller 40 mm, with ball bearings (silicon)

106.976		Pressure roller 28 mm (PTFE)
106.977		Pressure roller 28 mm (silicon)

Other accessories

106.989

3 

106.990

4 

106.991

5 

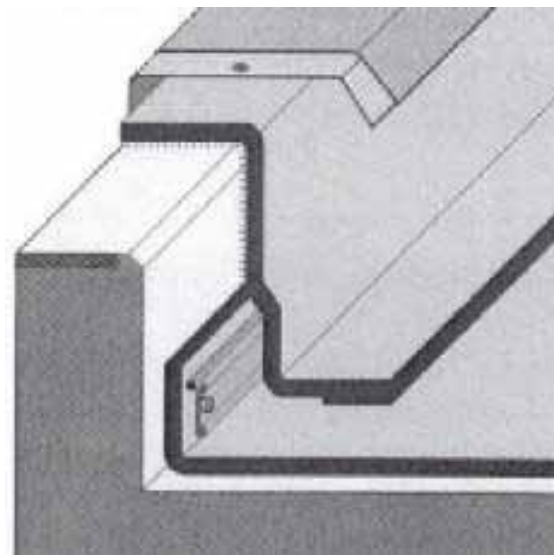
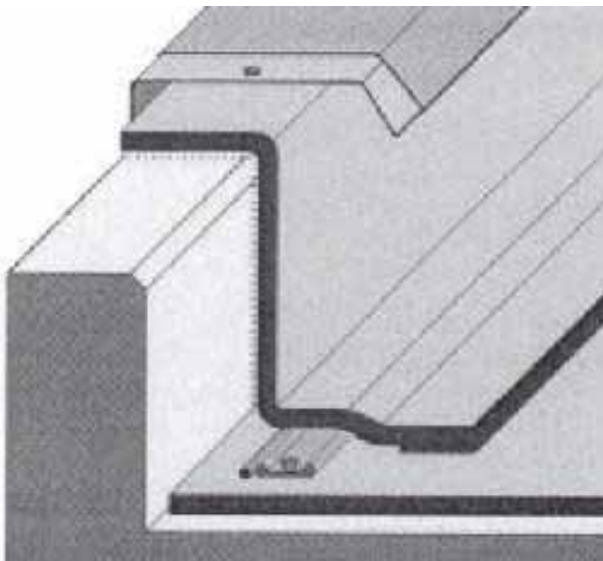


Speed welding nozzle 3 mm push-fit on
tubular nozzle \varnothing 5 mm

Speed welding nozzle 4 mm push-fit on
tubular nozzle \varnothing 5 mm

Speed welding nozzle 5 mm push-fit on
tubular nozzle \varnothing 5 mm

> TRIAC PID > TRIAC S



ELECTRON



The powerful Leister ELECTRON is a hand tool, perfect for the specialist.

FEATURES:

- Powerful
- Compact
- Robust
- Construction site tried and tested
- Approved of bitumen

Accessories for ELECTRON

107.258



Wide slot nozzle 70 x 10 mm, push-fit

> ELECTRON

107.266



Wide slot nozzle 75 x 2 mm, push-fit
(with tool holder)

> ELECTRON

Wide slot nozzle 70x10 mm for heating up and drying

Wide slot nozzle 75x2 mm for welding of bitumen



Pre sales is after sales

We are not only speak about roofing!

1.Civil engineering

2.Roofing

3.Floring

1.



LEISTER

2.



3.



All you need?



LEISTER



Promotion material



Promotion material

Market segment leaflet



Product flyers



Promotion material

Application video



DVD VARIMAT V2



UNIROOF E



BITUMAT

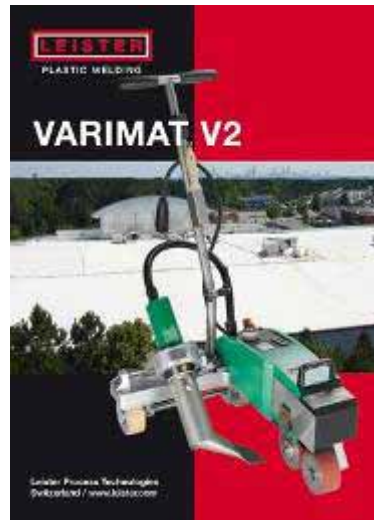
Success stories



Application notes

Promotion material

Poster



Promotion material

Roll up for shows and more



Promotion material

Internet

- Internet www.leister.com
- Technical data sheet
- Operation manual
- YouTube product application

Extranet

- Product pictures
- Leister logos

Miscellaneous

- Advertisement template
- PowerPoint Presentation

LEISTER

**Besten Dank für Ihre
Aufmerksamkeit**

