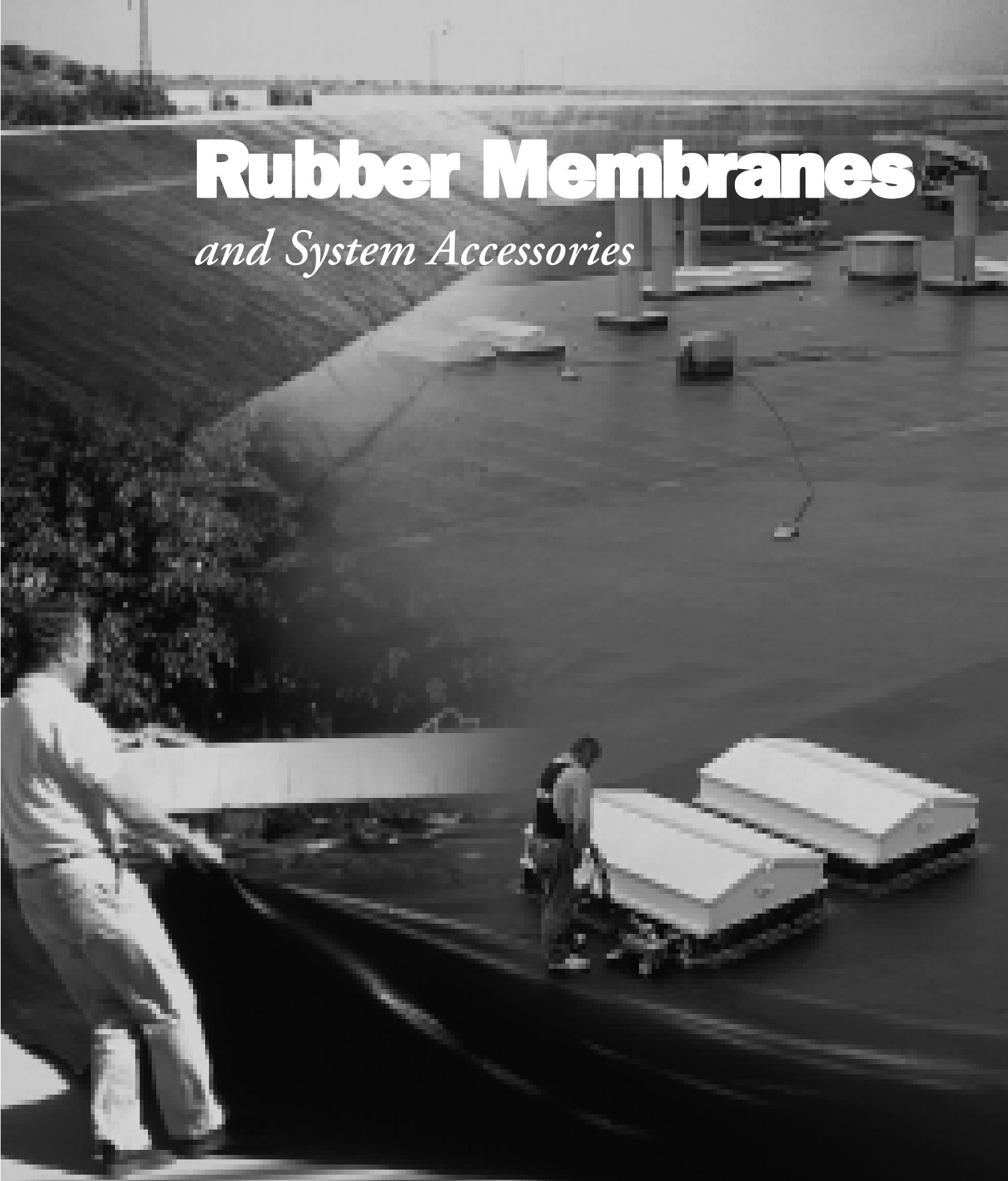


# Rubber Membranes

*and System Accessories*



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*This brochure informs about products and applications based on practical experience developed through many years. The development to adapt to technical requirements and market demands is continuing. Our products and instructions are consequently modified frequently. The specifications and instructions are only intended as a general orientation about the most effective product in a given situation. Since the end-users handling and installation of the product is beyond our control we cannot take any responsibility for the results occurred when the product is used.  
Stated product data is valid with tolerances given in our product specifications.*

# INTRODUCTION

Rubber Membranes is a business unit within Trelleborg Building Systems, one of four business areas of Trelleborg. Trelleborg is a global industrial and distribution group and one of the major producers of industrial rubber products in the world.

## MANUFACTURING

Our manufacturing plant is situated in Värnamo, Sweden. As an operation within one of the global leaders in industrial rubber products, we have access to the most cost-effective raw materials and leading process technology. The production comprise the complete value-chain from purchasing of raw materials, formulation of compounds, compounding, two layer calandering, vulcanisation in autoclave to finished products in standard rolls as well as panels prefabricated to measure. Our activities are ISO 9001 certified, and conducted according to ISO 14001.

## RUBBER MEMBRANES

Rubber is elastic not plastic. Vulcanisation creates a stable cross linked polymer structure resulting in unsurpassed dimensional stability, elasticity and long term durability in spite of exposure to mechanical stress, atmosphere, chemicals, heat, cold, ice and water, ultraviolet radiation or ozone.

Our rubber membranes are chemically stable and contain no environmentally problematic additives such as plasticisers, flame- retardants, heat- or UV-stabilisers. They do not release any substances that cause allergies or hazards to the environment. Recycling options are available for membranes reclaimed from demolition of old constructions.

### Butyl rubber

Butyl membranes have been used for water containment and water proofing construction since the 1940's. The butyl membranes have important benefits in their low air and vapour permeability as well as high resistance to ageing, heat, chemicals and UV-radiation. The features of butyl rubber are utilised in a wide range of water containment applications ranging from drinking and irrigation water, fish farming and garden ponds. to waste deposits, waste water reservoirs and agricultural manure pits. In construction, the main applications are sealing strips for facades and ballasted roofing.

### EPDM rubber

We introduced EPDM rubber roofing in 1980. Features like fast, clean and easy installation combined with reliable function and excellent weather resistance have rated EPDM membranes the supreme commercial & industrial rubber membranes. EPDM membranes can be used for: flat roofs, deck constructions, ponds, landfills and reservoirs.

## SPLICING

All the Splicing of Trelleborg rubber membrane systems are based on Hotbond or the new, patented splicing technique Thermobond. Hotbond is used during prefabrication but can also be used at the installation. Thermobond splicing of EPDM membrane and accessories is carried out by heat, either from a hot air machine or hot wedge. The splice enjoys optimum strength and is just as elastic as the rubber membrane itself. The superior service life and properties of vulcanised EPDM combined with the splicing technique of thermoplastic materials – the best of both worlds.

## CHEMICAL RESISTANCE

The chemical resistance depends on concentration, temperature and time of exposure. The characteristics of Butyl and EPDM at +20 °C are shown in the adjacent table.

For other chemicals and conditions, please contact our technical department.

## PACKAGING & STORING

Membranes are rolled on a cardboard core and sealed with polyethylene film. Each roll is marked with product name, article- and roll number, dimensions, date of manufacture and signature.

Rubber membrane rolls must be stored dry, protected from rain, moisture and dirt. We recommend storage on pallets covered by a tarpaulin.

### RESISTANT

- Earth, acidic and alkaline
- Asphalt
- Animal fats
- Lime, concrete, cement
- Diluted acids and alkalis
- Alcohols
- Water and brine
- Soil chemicals
- Nitrates, phosphates, sulphates  
in solution

### NON-RESISTANT

- Aromatic solvents
- Petrol and oil
- Timber impregantion
- Benzol, toloene, turpentine

## [www.trelleborg.com/rubber\\_membranes](http://www.trelleborg.com/rubber_membranes)

Information regarding Business Unit Rubber Membranes can also be found on the Internet. There you can find more information regarding our products along with technical data, construction guidelines etc. Our web site provides the latest information and techniques regarding rubber membranes - the watertight difference.



# SUPERSEAL™ MECHANICALLY ATTACHED

## SUPERSEAL S



### Product data

Fleece backed EPDM membrane for mechanically attached roofing spliced with Thermobond strip.

<b>Colour:</b>	Black
<b>Width:</b>	1,34; 1,74 m
<b>Length:</b>	20 m
<b>Area/roll:</b>	26,80; 34,80 m <sup>2</sup>

Width (m)	Thickness (mm)	Weight (kg/m <sup>2</sup> )	Article number
1,34	2,10	1,6	53104324
1,74	2,10	1,6	5310472
1,74	2,25	1,8	5310473
1,74	2,50	2,1	5310475

### Approvals, Certificates & Specifications

Country	Application/Property/Standard
Croatia	Elastomeric waterproofing for roofing
Germany	Elastomer- Bahnen für Abdichtungen/DIN 7864, Teil 1
Germany	Resistance to wind uplift/ Ueac 4.4.2
Germany	Widerstandsfähig gegen Hufeufer und strahlende Wärme/DIN 4102, Teil 7
Hungary	Elastomeric waterproofing
Netherlands	Komo Attest
Slovakia	Elastomeric waterproofing

Authority
Institut G radevinarstva, Hrvatske, Zagreb
SP Swedish National Testing and Research Institute
WSP Aachen
Otto-Graf Institut
EMI Plc, Budapest
BDA Intron
TSUS, Bratislava

## SUPERSEAL FR



### Product data

Fire retardant, fleece backed EPDM membrane for mechanically attached roofing spliced with Thermobond strip.

<b>Colour:</b>	Black
<b>Width:</b>	1,30 m
<b>Length:</b>	20 m
<b>Area/roll</b>	26 m <sup>2</sup>

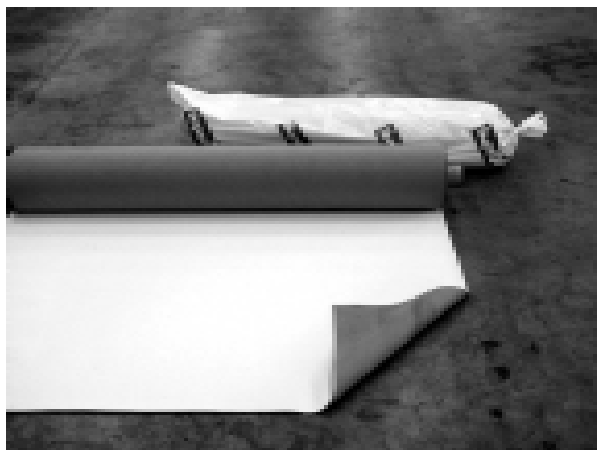
Width (m)	Thickness (mm)	Weight (kg/m <sup>2</sup> )	Article number
1,30	2,10	1,7	5150432

### Approvals, Certificates & Specifications

Country	Application/Property/Standard
Belgium	Eenlaagse rubberen dakafdichting
Croatia	Elastomeric waterproofing for roofing
Denmark	Resistant to Flame Spread/NT Fire 006, class T, MK
Finland	Tyypihyväksyntäpäätös
France	Reaction to fire/Proces-Verbal No 1062/93, Class M3
France	Elastomeric waterproofing for flat roofs
Germany	Widerstandsfähig gegen Hufeufer und strahlende Wärme/DIN 4102, Part 7
Germany	Elastomer- Bahnen für Abdichtungen/DIN 7864, Teil 1
Germany	Resistance to wind uplift/ Ueac 4.2.2
Great Britain	Resistance to fire penetration and spread of flame/BS 476:Part 3:1958, Class EXT.F.AB
Great Britain	Single-layer waterproofing for use on limited access roofs
Hungary	Elastomeric waterproofing
Netherlands	KOMO attest
Norway	Tekking på skrå og flate tak
Poland	Elastomeric waterproofing
Slovakia	Elastomeric waterproofing
Sweden	Resistant to Flame Spread/NT Fire 006, class T
Sweden	Tätskikt på yttertak, Papp och dukar av gummi och plast/BFR R57:1990
Czeck Rep.	Elastomeric waterproofing
Yugoslavia	Elastomeric waterproofing

Authority
BÜtgb
Institut G radevinarstva, Hrvatske, Zagreb
ETA Danmark
Ympäristöministeriön Asunto- ja Rakenausosasto
Prefecture de Police; Paris
Qualiconsult
FMPA, Baden -Wurttemberg
SP Swedish National Testing and Research Institute
WSP Aachen
BBA, British Board of Agrément
BBA, British Board of Agrément
EMI Plc, Budapest
BDA Intron
NBI Trondheim
ITB, Warszawa
TSUS Bratislava
SP Swedish National Testing and Research Institute
SITAC
ZUS, Praha
University of Beograd

## SUPERSEAL W



### Product data

White, heat reflective, fleece backed EPDM membrane for mechanically attached roofing spliced with Thermobond strip.

Colour: White  
 Width: 1,30 m  
 Length: 20 m  
 Area/roll: 26 m<sup>2</sup>

Width (m)	Thickness (mm)	Weight (kg/m <sup>2</sup> )	Article number
1,30	2,10	1,7	5990432

## SUPERSEAL ST



### Product data *NEW*

Fleece backed EPDM membrane with 40 mm Thermobond coated overlap along one length edge. Approved for mechanically fixation using a 1,74 meter wide membrane.

Width (m)	Thickness (mm)	Weight (kg/m <sup>2</sup> )	Article number
1,34	2,10	1,6	53304324
1,74	2,10	1,6	5330472
0,69	2,25	1,8	53304103
1,34	2,25	1,8	53304334
1,74	2,25	1,8	5330473

### Approvals, Certificates & Specifications

Country	Application/Property/Standard
Croatia	Elastomeric waterproofing for roofing
Germany	Elastomer- Bahnen für Abdichtungen/DIN 7864, Teil 1
Germany	Widerstandsfähig gegen Flugfeuer und strahlende Wärme/DIN 4102, Part 7
Hungary	Elastomeric waterproofing
Netherlands	KOMO Attest
Slovakia	Elastomeric waterproofing

### Authority

Institut Gradevinarstva, Hrvatske, Zagreb  
 SP Swedish National Testing and Research Institute  
 FMFA, Baden-Württemberg  
 EMI Pic, Budapest  
 BDA Intron  
 TSUS, Bratislava

# SUPERSEAL™ ADHERED

## SUPERSEAL ST



### Product data

Fleece backed EPDM membrane with 40 mm Thermobond coated overlap along one length edge.

Width: 1,74 m  
Length: 20 m  
Area/roll: 34,8 m<sup>2</sup>

Width (m)	Thickness (mm)	Weight (kg/m <sup>2</sup> )	Article number
1,74	2,10	1,6	5330472
1,74	2,25	1,8	5330473
1,74	2,50	2,1	5330475

### Approvals, Certificates & Specifications

Country	Application/Property/Standard	Authority
Croatia	Elastomeric waterproofing for roofing	Institut Gradevinarstva, Hrvatske, Zagreb
Germany	Elastomer- Bahnen für Abdichtungen/DIN 7864, Teil 1	SP Swedish National Testing and Research Institute
Germany	Widerstandsfähig gegen Hugfeuer und strahlende Wärme/DIN 4102, Part 7	FMPA, Baden-Württemberg
Germany	Wurzelfestigkeit FLL.	Landwirtschaftskammer Rheinland, Essen
Hungary	Elastomeric waterproofing	EMI Pic, Budapest
Netherlands	KOMO Attest	BDA Intron
Slovakia	Elastomeric waterproofing	TSUS, Bratislava

## SUPERSEAL FRT



### Product data

Fire retardant, fleece backed EPDM membrane with 40 mm Thermobond coated overlap along one length edge.

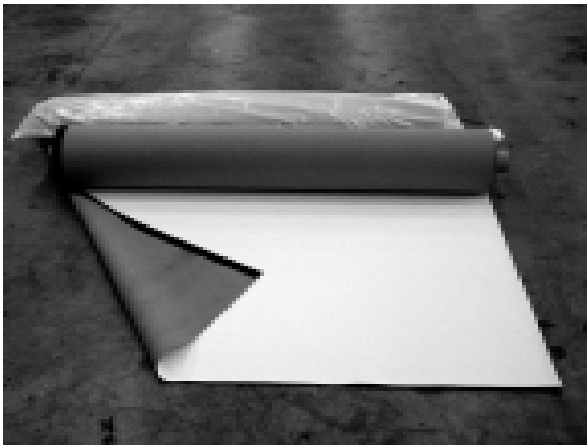
Width: 1,74 m  
Length: 20 m  
Area/roll: 34,8 m<sup>2</sup>

Width (m)	Thickness (mm)	Weight (kg/m <sup>2</sup> )	Article number
1,74	2,10	1,7	5180472

### Approvals, Certificates & Specifications

Country	Application/Property/Standard	Authority
Belgium	Eenlaagse rubberen dakafdichting	BUtgb
Croatia	Elastomeric waterproofing for roofing	Institut Gradevinarstva, Hrvatske, Zagreb
Denmark	Resistant to Flame Spread/NT Fire 006, class T, MK	ETA Danmark
Finland	Tyypihyväsintäpäätös	Ympäristöministeriön Asunto- ja Rakenausosasto
France	Reaction to fire/Proces-Verbal No 1062/93, Class M3	Prefecture de Police; Paris
France	Elastomeric waterproofing for flat roofs	Qualiconsult
Germany	Widerstandsfähig gegen Hugfeuer und strahlende Wärme/DIN 4102, Part 7	FMPA, Baden -Wurttemberg
Germany	Elastomer- Bahnen für Abdichtungen/DIN 7864, Teil 1	SP Swedish National Testing and Research Institute
Germany	Wurzelfestigkeit FLL. Mai 1999	Landwirtschaftskammer Rheinland, Essen
Great Britain	Resistance to fire penetration and spread of flame/BS 476:Part 3:1958, Class EXT.F.AB	BBA, British Board of Agrément
Great Britain	Single-layer waterproofing for use on limited access roofs	BBA, British Board of Agrément
Hungary	Elastomeric waterproofing	EMI PIC, Budapest
Netherlands	KOMO Attest	BDA Intron
Norway	Tekking på skrå och flate tak	NBI Trondheim
Poland	Elastomeric waterproofing	ITB, Warszawa
Slovakia	Elastomeric waterproofing	TSUS Bratislava
Sweden	Resistant to Flame Spread/NT Fire 006, class T	SP Swedish National Testing and Research Institute
Sweden	Tätskikt på yttertak, Papp och dukar av gummi och plast/BFR R57:1990	SITAC
Czech Rep.	Elastomeric waterproofing	ZUS, Praha
Yugoslavia	Elastomeric waterproofing	University of Beograd

**SUPERSEAL WT**

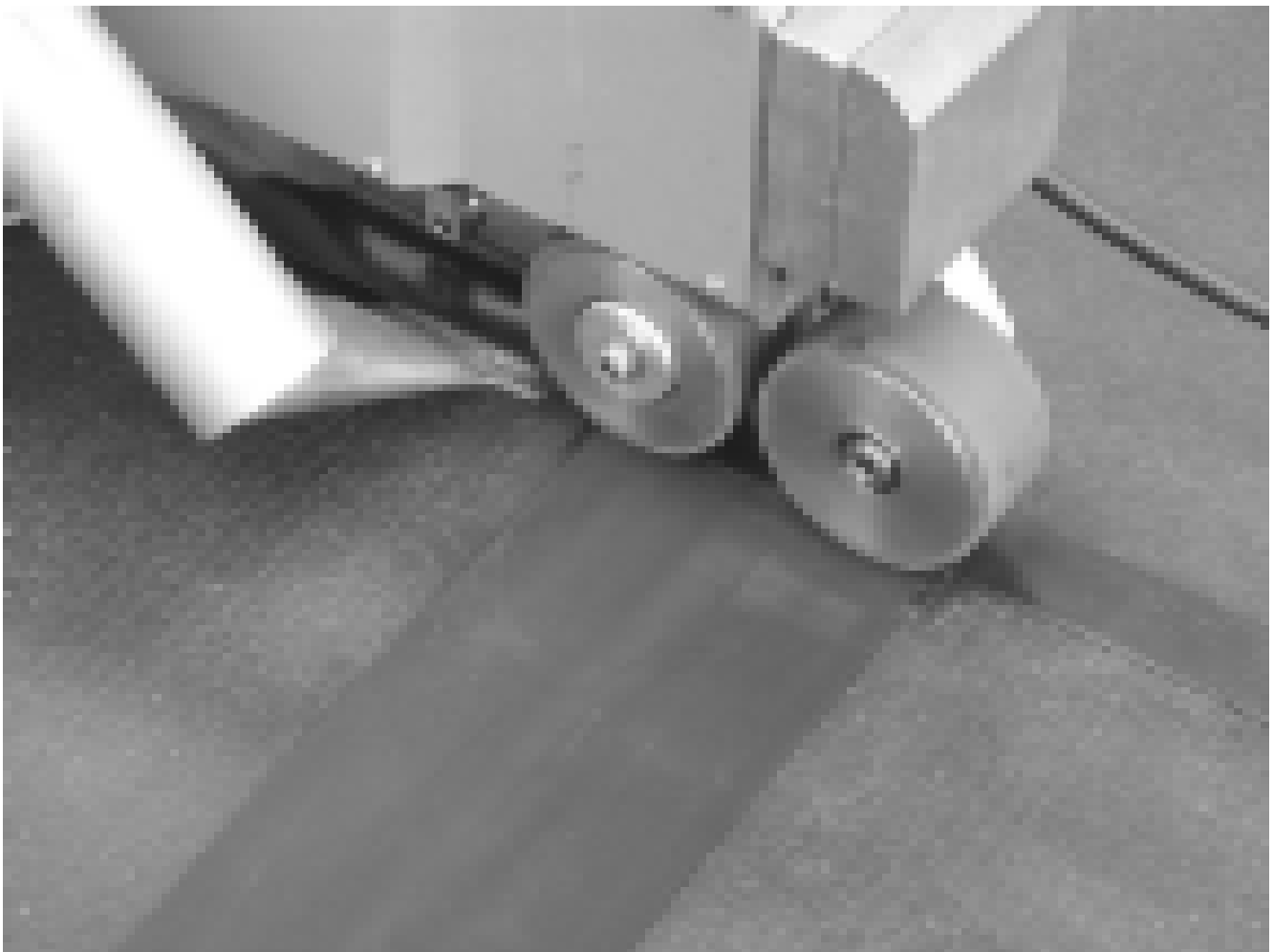


**Product data**

White, heat reflective, fleece backed EPDM membrane with 40 mm Thermobond coated overlap along one length edge.

Width: 1,74 m  
Length: 20 m  
Area/roll: 34,8 m<sup>2</sup>

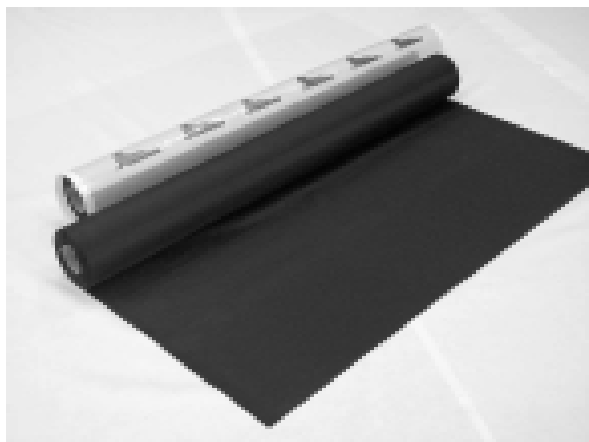
Width (m)	Thickness (mm)	Weight (kg/m <sup>2</sup> )	Article number
1,74	2,10 mm	1,7	5980472



*Overlap splicing*

# ELASTOSEAL™ BALLASTED ROOFING

## ELASTOSEAL



### Product data

Loose laid waterproofing for ballasted roofs as well as all traditional EPDM water containment applications. Heat spliceable over the entire surface.

Colour: Black  
 Width: 1,60 mm  
 Length: 25 m  
 Area/roll: 40 m<sup>2</sup>

Width (m)	Thickness (mm)	Weight (kg/m <sup>2</sup> )	Article number
1,60	1,2	1,6	5310073
160	1,5	2,0	5310075

### Approvals, Certificates & Specifications

Country	Application/Property/Standard
Austria	Kunststoff – Dichtungsbahnen/ÖNORM B 3700
Croatia	EPDM roofing system
Germany	Elastomer- Bahnen für Abdichtungen/DIN 7864, Teil 1
Germany	Wurzelfestigkeit FLL.
netherlands	KOMO Attest
Hungary	Elastomeric waterproofing
Poland	Elastomeric waterproofing
Russia	EPDM waterproofing for roofing
Slovakia	Elastomeric waterproofing
Sweden	EPDM waterproofing for roofing
USA	Vulcanized Rubber Sheet Used In Single-Ply Roof Membrane/ASTM D 4637-87

### Authority

SP Swedish National Testing and Research Institute  
 Institut Gradevinarstva Hrvatske dd, Zagreb  
 SP Swedish National Testing and Research Institute  
 Landwirtschaftskammer Rheinland, Essen  
 BDA Intron  
 EMI PIC, Budapest  
 ITB, Warszawa  
 Mosstroyserifikatcyia, Niimosstroy  
 TSUS, Bratislava  
 SITAC

Trelleborg Building Systems

### HOT AIR TOOL FOR SPLICING DETAILS



*Leister handgun and pressure roll,*

### HOT WEDGE TOOL FOR PREFABRICATION



*Hot wedge splicing.*



*Thermobond dual track seams that can be tested using air pressure.*

# THERMOBOND™ ACCESSORIES

Prefabricated accessories, compatible with Superseal EPDM, Elastoseal EPDM and Värnamo EPDM membranes, including efficiently hot air spliced details and connections.

## FLASHING



### Product data

Hot air spliceable EPDM/Thermobond laminate without reinforcement that is used for upstands and details.

Thickness 1,7 mm. Length: 20 m

Colour	Width (mm)	Weight (kg/roll)	Article Number
Black	300	13	5350003
Black	450	19	5350004
Black	600	25	5350005
Black	900	38	5350007
Black	1500	63	5350008
White	300	13	5380003
White	450	19	5380004
White	600	25	5380005

## SPLICE STRIP



### Product data

EPDM rubber splicing strip laminated with Thermobond layer and therefore benefits excellent spliceability.

Thickness: 1,7 mm. Length: 20 m

Colour	Width (mm)	Weight (kg/roll)	Article Number
Black	150	6,3	5350002
White	150	6,3	5380002

## HOT MELT SEALANT

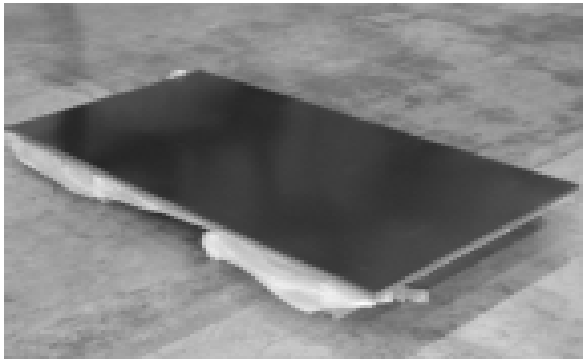


### Product data

Is used to level differences in height like for instance at T-joints. Hot melt sealant is based on Thermobond technology. Diameter: 4 mm. Roll length: 30 m

Packages	Article number
1 roll	5540040

## LAMINATED METAL SHEET

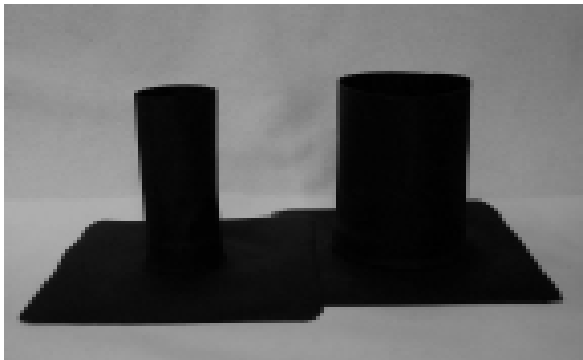


### Product data

Galvanized 0,6 mm steel sheet laminated with 0,3 mm Thermobond layer. The laminated sheet metal is used for perimeter profiles. The sheet can be cut and folded like ordinary galvanized steel sheets.

Colour	Width(m)	Length m	Thickness (mm)	Weight(kg/m <sup>2</sup> )	Article Number
Black	1	2	0,63	4,6	5599601

## PIPE BOOTS



### Product data

Pipe boot of 1,2 mm EPDM with 1,5 mm, hot air spliceable Thermobond collar. Available in closed as well as open types in specified sizes.

Closed type: Diam 35, 50, 70, 100, 125, 150 mm

Open type: Diam 50, 70, 100, 125, 150 mm

## COLLARS



### Product data

Prefabricated collar made of 1,5 mm EPDM that is laminated with a Thermobond layer. Made according to specification.

Measures to specify are:

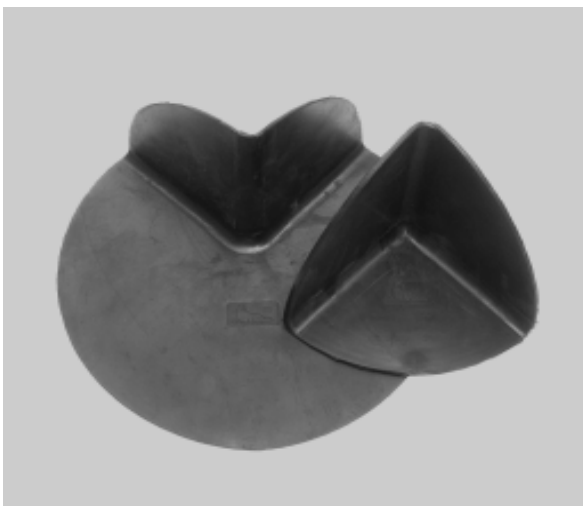
Length:

Width:

Collar height:

Flange width:

## CORNERS



### Product data

Corner that is heat spliceable due to the Thermobond technique.

Packed in cartons 40 pcs/carton.

Type	External corner	Internal corner
Measure	100x120 mm	100x100 mm
Article number	5350022	5350023

## DRAIN PE



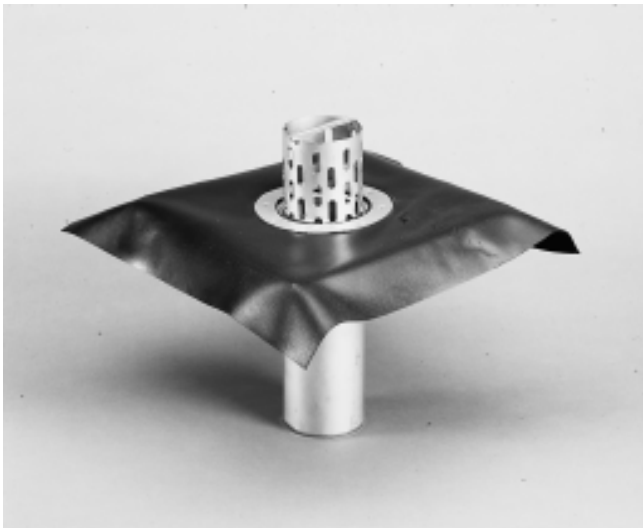
### Product data

Roof drain for installation with EPDM Rubber Membrane. The drain is equipped with a collar of Thermobond that makes it heat spliceable to the membrane. The drain is designed for draining roofs and terraces, especially those with internal drainage. The drain can also be used horizontally as overflow.

The pipe is made of polyethylene and is 400 mm long.

Ø, pipe (mm)	Themobondcollar (mm)	Articel number
63	300x300	5501211
75	300x300	5501212
90	300x300	5501213
110	400x400	5501214
125	400x400	5501215

## DRAIN PC



### Product data

Roof drain for installation with EPDM Rubber Membrane. The drain is equipped with a 500x500 mm collar of Thermobond that makes it heat spliceable to the membrane. The pipe is made of Stainless steel and is 0,8 mm thick and 300 mm long.

Ø, pipe (mm)	Artikelnummer
60	5501195
90	5501196
110	5501197

# ADHESIVES & SEALANTS

## PUR ADHESIVE 3200

Adhesive for bonding Superseal membranes to roof substrates like old bituminous membranes, wood, concrete and light concrete. The substrate temperature must be above +5°C when installing.



### Product data

Base:	Polyurethane prepolymer
Colour:	Yellowish brown
Flash point:	< 0°C
Density:	1000 kg/m <sup>3</sup>
Shelf life:	9 months if stored cool in unopened packages
Precautions:	Review the Material Safety Data Sheet for complete safety information prior to use.

### Coverage: 0,3 kg/m<sup>2</sup>

Packaging	Article number
20 kg metal can	5532000

## CONTACT ADHESIVE 5000

Is used for adhering the Membrane to upstands, roof lights etc. Adheres to substrates like brickwork, metal, concrete and wood. The substrate must be free from sharp edges, debris, oil, grease and dust. Substrate temperature must be above +5°C when installing.



### Product data

Base:	Synthetic rubber and resins dissolved in inflammable organic resins
Colour:	Black
Flash point:	< 0°C
Density:	860 kg/m <sup>3</sup>
Shelf life:	Max 12 months if stored cool in a well-sealed container
Precautions:	Review the Material Safety Data Sheet for complete safety information prior to use.

### Coverage: 0,5 kg/m<sup>2</sup>

Packaging	Article number
1 litre, 0,9 kg metal can	5595001
6 liter, 4,5 kg metal bucket	5595000

## ENVIROBOND™

Water based adhesive for bonding Superseal membranes to roof area substrates of old bituminous membranes, wood, concrete and light concrete. The substrate temperature must be above +5°C when installing.



### Product data

Base:	Synthetic rubber
Solids	51%
Colour:	Milky white
Density:	980-1040 kg/m <sup>3</sup>
Thin with:	Water
Clean up:	Toluene
Storage:	15-25 °C
Shelf life:	6 months in unopened packaging
Precautions:	Review the Material Safety Data Sheet for complete safety information prior to use.

### Coverage: 0,3 kg/m<sup>2</sup>

Packaging	Article number
20 kg plastic bucket	5597000

## CLEANING WASH 9700

Used for cleaning splicing areas of weathered rubber membranes before installation and repair.



### Product data

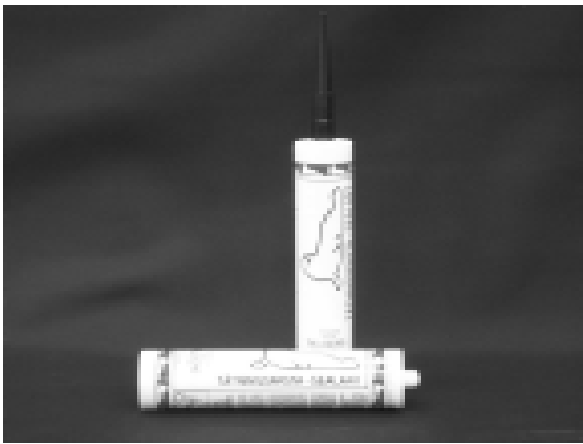
Base:	Technical petrol, heptane 100%
Consistency:	Liquid
Colour:	Transparent
Flash point:	<-10° C
Density:	705 kg/m <sup>3</sup>
Shelf life:	6 months in unopened packages
Precautions:	Review the Material Safety Data Sheet for complete safety information prior to use.

### Coverage: 4-5 m<sup>2</sup>/litre

Packaging	Article number
1 litre plastic bottle	5597051
5 litre plastic can	5597050

## BLACK SEALANT 5590

Black elastomeric sealant for T-joints, corners and other roof details. Adheres to EPDM rubber, stone, concrete, metal, wood and plastics.



### Product data

Base:	Silicone
Consistency:	Smooth homogenous paste.
Colour:	Black
Flash point:	<-10° C
Density:	1250 kg/m <sup>3</sup>
Shelf life:	6 months in unopened packaging
Precautions:	Review the Material Safety Data Sheet for complete safety information prior to use.

### Coverage: 10-12 m/cartridge

Packages	Article number
310 ml cartridge	5595590

Delivered in carton of 15 pcs.

## WHITE SEALANT 5591

White elastic sealant for T-joints, corners and other roof details. Good adhesion to EPDM, stone, concrete, metal, wood and plastics.



### Product data

Base:	EPDM
Consistency:	Smooth homogenous paste.
Colour:	White
Flash point:	<-10° C
Density:	1250 kg/m <sup>3</sup>
Shelf life:	6 months in unopened packaging
Precautions:	Review the Material Safety Data Sheet for complete safety information prior to use.

### Coverage: 10-12 m/cartridge

Packages	Article number
310 ml cartridge	5595591

Delivered in carton of 10 pcs.

## PROTECTION TAPE

For the protection of splice areas from air born contamination and UV-radiation during longer abruption in the installation.



### Product data

75 mm wide tape on 33-meter long rolls.

Packages	Article number
6-pack	5590010

## REPAIR STRIP + PRIMER

Repair of punctured membranes, seams and connections. Good adhesion to painted and unpainted metal, brick, ceramics, wood, concrete, rubber and vinyl



### Product data

#### Repair strip

Width:	152 mm	Colour	Article number
Thickness:	2,0 mm	Black	5599200
Length:	30,5 m	White	5599210
Storage:	Room temperature		
Shelf life:	12 months		

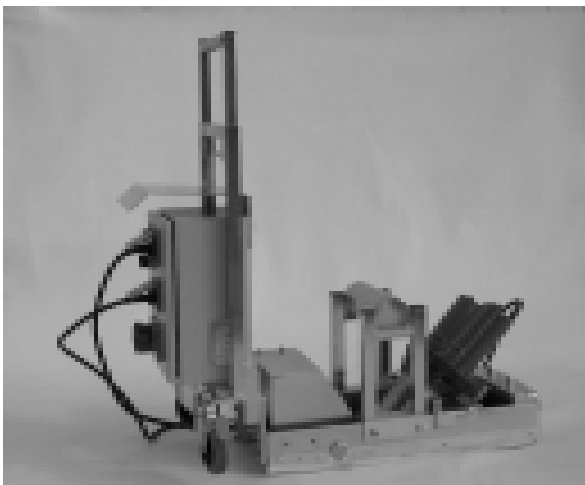
#### Primer 9705

Base	Synthetic	Packaging	Article number
Solids	3,0-7,0 %	1 litre can	5598011
Flash point	< 0 °C		
Density	827 kg/m <sup>3</sup>		
Storage	15-25°C		
Shelf life	6 months		
Consumption	4-5m <sup>2</sup> /litre		

## HOT AIR SPLICING

### THERMOBOND™ STRIP MACHINE

Application of splice strips on Superseal and Värnamo EPDM membranes.



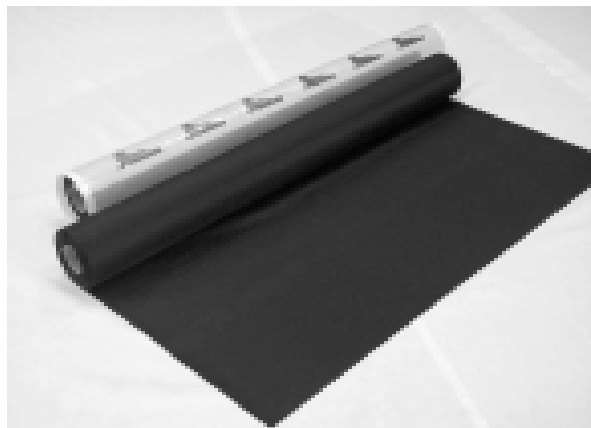
### Product Data

Electrically driven hot air machine with adjustable speed and temperature. The splice strip is pressed firmly by the drive roller, which is resilient in order to absorb irregularities in the roof surface. Voltage: 380 V. The control box has three sockets. Two for the hot air guns that heat the nozzle and one for the hot air handgun.

Article number	5593000
Voltage	380V 50/60 Hz
Power	6000 W
Temperature	20-650 °C
Air flow	<1000 l/min
Noise level	65 dB(A)
Weight	42 kg

# VÄRNAMO™ RUBBER MEMBRANES

## VÄRNAMO EPDM



### Product data

Colour: Black  
 Width: 1,70 m  
 Length: 25 m  
 Area/roll: 42,5 m<sup>2</sup>

Thickness (mm)	Weight (kg/m <sup>2</sup> )	Weight (kg/roll)	Article Number
0,75	0,80	36	5930071
1,0	1,10	48	5930072
1,2	1,30	57	5930073
1,5	1,70	74	5930075
2,0	2,30	100	5930076

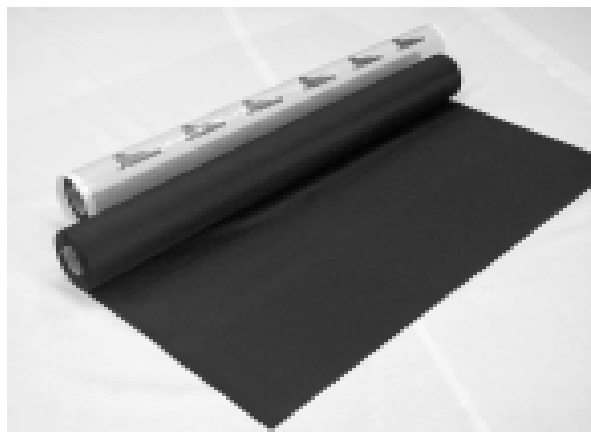
### Approvals, Certificates & Specifications

Country	Application/Property/Standard
Finland	Agricultural Manure and Urine Storage
Germany	Elastomer- Bahnen für Abdichtungen/DIN 7864, part 1
Germany	Wurzelfest/FLL-Richtlinien
Hungary	Flat roofing system
Hungary	Elastomeric waterproofing
Japan	JIS A 6008, uniform sheets
Spain	Laminas de elastomeros / UNE 53-586-86
Sweden	Agricultural Manure and Urine Storage
USA	Vulcanized Rubber Sheet Used In Single-Ply Roof Membrane/ASTM D 4637-87

### Authority

Jord-ochSkogs- bruksministeriet  
 SP Swedish National Testing and Research Institute  
 Botanisches Institut der TU, Braunschweig  
 EMI, Budapest  
 EMI Plc, Budapest  
 Trelleborg Building Systems  
 Trelleborg Building Systems  
 Jordbruksverket  
 Trelleborg Building Systems

## VÄRNAMO BUTYL



### Product data

Colour: Black  
 Width: 1,70 m

Thickness (mm)	Length (m/roll)	Area (m <sup>2</sup> /roll)	Weight (kg/m <sup>2</sup> )	Weight (kg/roll)	Article Number
0,75	40	68	0,9	63	5401071
1,0	40	68	1,2	84	5401072
1,2	35	59,5	1,5	91	5401073
1,5	30	51	1,8	94	5401075
2,0	20	34	2,4	84	5401076

### Approvals, Certificates & Specifications

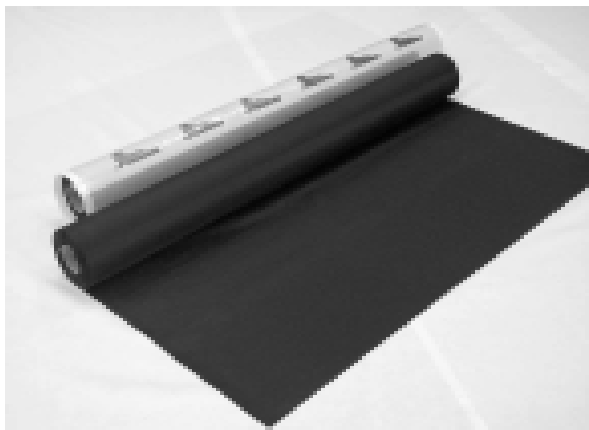
Country	Application/Property/Standard
Czech Rep.	Elastomeric waterproofing
Denmark	Membranes for waste deposits/Dans Ingeniørføening
Germany	Elastomer- Bahnen für Abdichtungen/DIN 7864, Part 1
Great Britain	Loose laid waterproof roof covering, ballasted with aggregate to prevent wind uplift on parapetted flat roofs
Poland	Elastomeric waterproofing
Slovakia	Elastomeric waterproofing
USA	Esso Butyl Sheeting

### Authority

ZUS, Praha  
 Dansk Teknologisk Inst  
 SP Swedish National Testing and Research Institute  
 BBA, British Board of Agrément  
 ITB, Warszawa  
 TSUS, Bratislava  
 Trelleborg Building Systems

## VÄRNAMO WRC BUTYL

Butyl membrane for potable water.



### Product data

Colour: Black

Width: 1,70 m

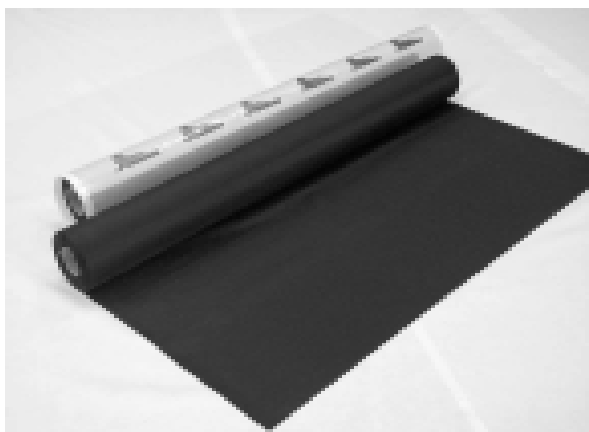
Thickness (mm)	Length (m/roll)	Area (m <sup>2</sup> /roll)	Weight (kg/m <sup>2</sup> )	Weight (kg/roll)	Article Number
1,0	40	68	1,2	83	5220072
1,5	30	51	1,8	94	5420075

### Approvals, Certificates & Specifications

Country	Application/Property/Standard
Great Britain	Effect on potable water quality/ BS 6920:1996
USA	Esso Butyl Sheeting

Authority  
Water Byelaws Scheme  
Trelleborg Building Systems

## VÄRNAMO GARDENPOND BUTYL



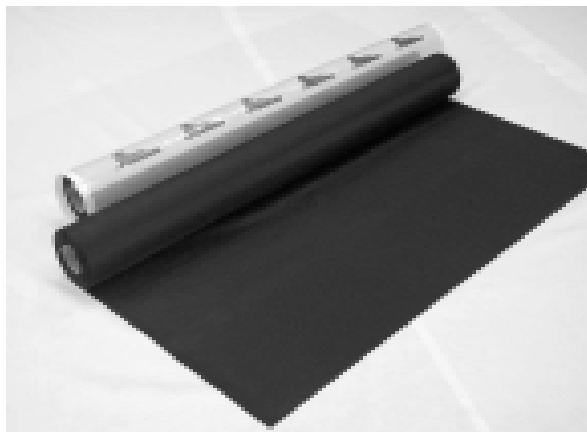
### Product data

Colour: Black

Width: 1,70 m

Thickness (mm)	Length (m/roll)	Area (m <sup>2</sup> /roll)	Weight (kg/m <sup>2</sup> )	Weight (kg/roll)	Article Number
0,75	40	68	0,9	63	5411071
1,0	40	68	1,2	84	5411072

## GREENSEAL POND LINER



### Product data

Colour: Black

Width: 1,70 m

Length: 25 m

Area/roll: 42,5 m<sup>2</sup>

Thickness (mm)	Weight (kg/m <sup>2</sup> )	Weight (kg/roll)	Article Number
0,75	0,9	63	5933071
1,0	1,2	84	5933072

# VÄRNAMO™ ACCESSORIES

## HOT BOND TAPE



### Product data

Width	Length	Storage	Shelf life	Rolls/carton	Article number
25 mm	25 m/roll	Cold&Dark	4 months	13	5590007

### Hot bonding data

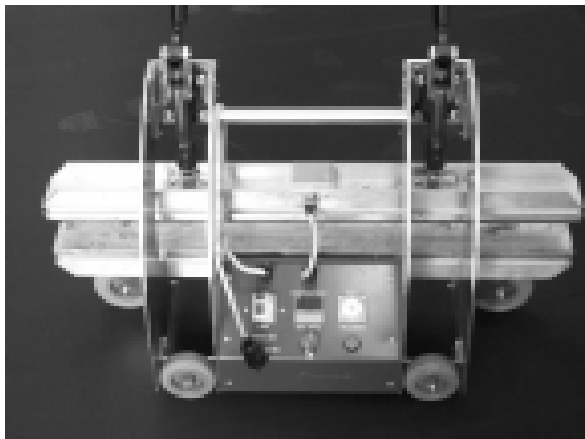
Press settings to reach a seam with shear strength of approx 8 N/mm and peel 3,5 N/mm are shown in the table below.

Pressure: 5 kp/cm<sup>2</sup>

Thickness mm Press time (s)	EPDM Press temp: 170 °C Press time (s)		BUTYL Press temp: 190 °C	
	Factory	Site	Factory	Site
	0,75	80	105	50
1,00	100	120	60	80
1,20	105	135	65	90
1,50	115	150	70	100
2,00	180	220	120	150

## HOT BOND PRESS

Hot bond press with electronic time and temperature controls. Pressure is set mechanically. Operating temperature is 170-190 °C. Press time is set by a timer dial. Open the press and insert the hot bond taped seam in the centre of the jaws. Close the press by bringing down the toggle handles. Press the timer button and open the press when the timer light goes out. The perfect weld shall be flat and have a uniform, 2-5 mm bead of vulcanised hot bond tape on the front edge



### Product Data

Article Number	5594000
Press length	915 mm
Weight	30 kg
Height	60 cm
Power Supply	220/240 V A.C.
Power	3,0 kW

# VÄRNAMO™ RUBBER STRIP



## Product data

Sealing strips for facades and foundations. Supplied in widths between 50-1700 mm, according to customer specification.

## VÄRNAMO EPDM STRIP

Thickness (mm)	Length (m)	Article number
0,75	25	5930001
1,00	25	5930002
1,20	25	5930003
1,50	25	5930005
2,00	25	5930006

## VÄRNAMO BUTYL STRIP

Thickness (mm)	Length (m)	Article number
0,75	40	5401001
1,00	40	5401002
1,20	35	5401003
1,50	30	5401005

## PASTE ADHESIVE 3300



## Product data

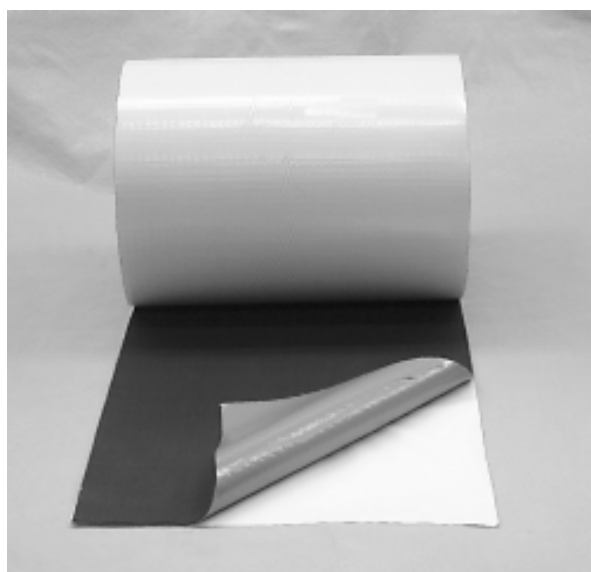
Application of rubber strips to facades and foundations.

Base:	Synthetic rubber
Colour:	Black
Flash point:	< 0 °C
Density:	1150 kg/m <sup>3</sup>
Shelf life:	Max 12 months if stored cool in unopened packing
Precautions:	Review the Material Safety Data Sheet for complete safety information prior to use

## Coverage: 10-12 m/cartridge

Packages	Article number
600 ml sausage	5533000

## STICKSEAL *NEW*



## Product data

Stickseal is a new Selfadhesive EPDM membrane that will adhere to most construction materials. The substrate must be coated with Primer 9800. Stickseal can be used in the following applications: Moisture barriers in facades and under walls, gutter lining on sloped metal / tiled roofs and waterproofing of balconies and terraces

Article number:	5922272
Colour:	Black
Width:	100-1700 mm; Made to measure
Length:	20 m
Thickness:	1,60 mm
Weight:	1,95 kg/m <sup>2</sup>
Reinforcement:	Scrim of Polyester

## PRIMER 9800

Article number:	5598000	Shelf life:	Max 6 months if stored cool in unopened packing
Base:	Toluene 70-90%	Precautions :	Review Material Safety Data Sheet.
Flash point:	+4 °C	Coverage:	3m <sup>2</sup> /liter
Density:	900kg/m <sup>3</sup>	Packaging:	Metal tin 5 liter

# MEMBRANES PREFABRICATED TO MEASURE

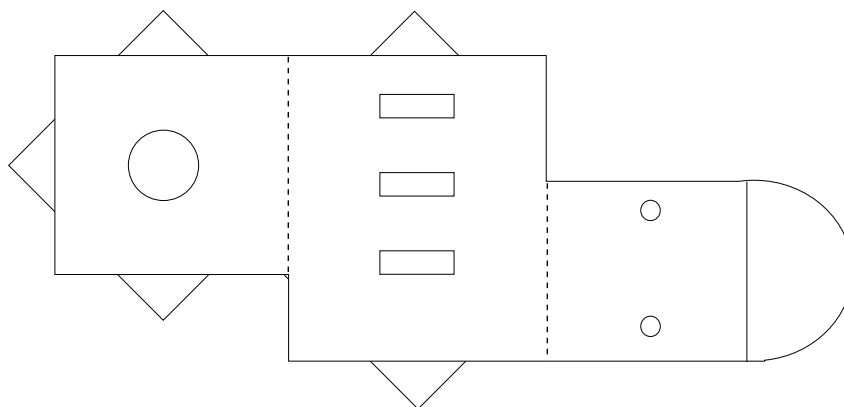
The unique properties of rubber makes it possible to prefabricate large size panels, including connections for piping, skylights, doors and walls, with tight and durable, vulcanised rubber seams. A little extra planning and design work can save you considerable time and money, thanks to and speed of installation and improved quality.

## FIELDS OF APPLICATION

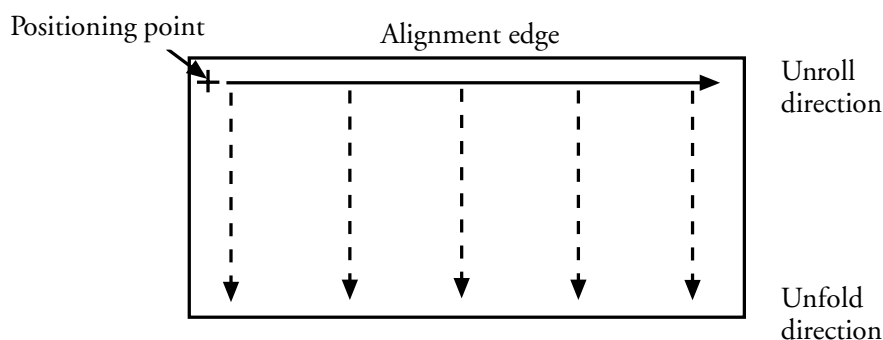
Roofing, terraces and decks in buildings. Dams, reservoirs and ponds in landscaping and gardening. Trays, tanks and containers for industrial applications, leachate/wastewater reservoirs and landfill cappings.

## PLANNING AND LOGISTICS

The only thing that limits the size of prefabricated panels is the ease of handling, the size and weight that are manageable. When using the rubber membrane for ground applications, like for instance lining or ponds, a size of 500-1500m<sup>2</sup> is manageable while roof applications normally requires smaller panels, maximum 600m<sup>2</sup>.



The drawing above is an example of what can be prefabricated to the measures of the roof including connections and penetrations. An important aspect of the planning is to decide the unfolding procedure on the roof. The membrane package is to be positioned at an easy accessible corner of the building so it can be rolled out along one of the edges of the roof.



## SPECIAL WIDTHS

Rubber sheets are spliced into rectangular plans according to specified type of membrane, type of splice, dimensions and packing.

Thickness (mm)	Elastoseal Article number	Värnamo EPDM Article number	Värnamo Butyl Article number
0,75		5930021	5401021
1,0		5930022	5401022
1,2	5310022	5930023	5401023
1,5	5310025	5930025	5401025
2,0		5930026	5401026
Type of splice	Thermobond	Hot Bond	Hot Bond

### **TAILOR-MADE PANELS**

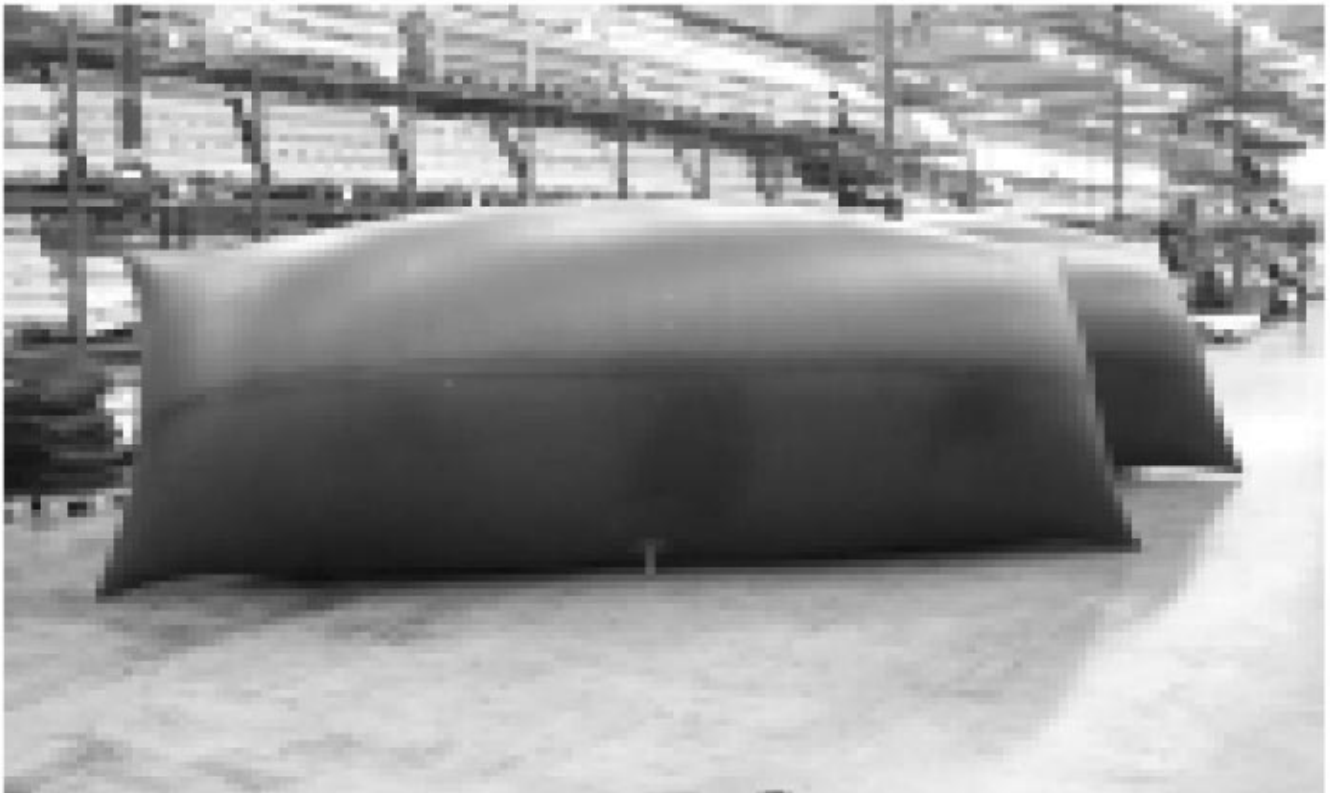
Rubber panels are also prefabricated with specified openings, connections and penetrations. For large complex designs the area can be divided into panels that thereafter can be put together on the building site.



*2400 m<sup>2</sup> rubber panel made of 1,2 mm Värnamo Butyl delivered in one piece rolled on steel pipes*

### **TRAYS, TANKS & CONTAINERS**

Three-dimensional designs are also prefabricated according to customer specification.



*6,3 m<sup>3</sup> rubber container made of 1,5 mm Värnamo Butyl.*

