

HALOCK™



Halock is a flexible pipe which together with its range of fittings and electrofusion welding is a complete system with different sizes of pipes, for product lines, vent, vapour recovery and remote fill applications for the petrol stations. The unique PBT liner is suitable for all types of fuel, including bio-diesel and methanol doped gasolines.



HALLINGPLAST A.S

HALOCK™



HALLINGPLAST AS

Hallingplast AS was founded in 1969 by Kåre Tragethon and Tov Skarpås. The factory is situated in Kleivi Næringspark (Kleivi Industrial Estate), on the border between Ål and Hol districts in Hallingdal, centrally located on the main road Rv 7 only a short distance from the market. Owners are the brothers Steinar and Roald Tragethon. They took over the concern in the early nineteen-eighties, and today own the business outright.

ISO CERTIFICATE

Hallingplast AS has had an NS-EN ISO 9001:2000 certificate since 1995. The system is followed throughout all departments in the concern. This makes us stand out as a serious and stable producer of plastics.

TYPES OF MATERIALS

Hallingplast AS uses polyethylene (PE) and polypropylene (PP) in its production of plastic pipes and fittings. Both these materials are characterized by high impact strength in cold conditions, high resistance to chemicals, great flexibility (PE) and high annular rigidity (PP). The internally smooth pipes give minimal frictional loss, and a probable life for products, as stated by the suppliers of the raw materials, to be a minimum of 100 years. This given correct installation and running conditions. In addition we can mention that the materials are extremely environment-friendly. The material can be recycled and used in products such as pallets, noise deflection walls etc.

PRODUCTS

Hallingplast AS has specialised in the production of high

pressure water pipes, drain pipes/fittings, cable protection pipes, fuel pipes, gas pipes and multi-layer pipes. The products are presented on the following pages. Our products are approved and certified in accordance with current national and international standards. Hallingplast also co-operates with international concerns for the buying and selling of plastic products. For technical information about the different products please see the above mentioned pages.

Fuel pipes are used in connection with, or are laid down at petrol stations, tank facilities, and bunkering facilities. This applies both to the pressure side and the air side. Such pipes are for transporting diesel, petrol, oil and the like between tanks and pumps, and are durable for this use. Hallinplast fuel pipes have been approved since 1989.

For the best and safest pipe for this kind use, choose Halock pipes. Halock, which is a registered trademark, has gained international approval. The pipe is made of three layers, which makes it almost 100% diffusion resistant. This means that there is no evaporation of petrol through the wall of the pipe and into the ground. Halock pipes are installed with electro-fused fittings. The problems with both external and internal corrosion, experienced when other materials are chosen, are eliminated by using this method. The environment round the tank installation will be treated in the best possible way.

Taken as a whole this gives a very simple and quick system of installation. We supply Halock pipes in both straight lengths and in coils.



Halock the safe pipeline system with PBT liner, for the petrol stations.
Halock le système de tuyauterie multicouches pour station- services

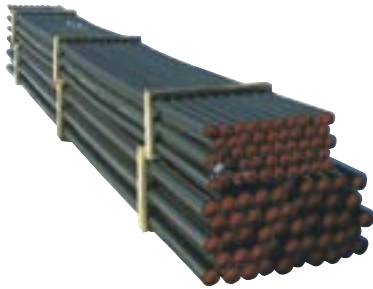
d	ART	L
50	1000 504	100 m
54	1000 544	100 m
63	1000 634	100 m



Coiled pipe

Pipe diameters	Weight pr. m		Weight pr. coil	Coil size diameter	B
50 mm x 4,6 mm	0,672 kg		68 kg	1700 mm	330 mm
54 mm x 4,9 mm	0,80 kg		80 kg	1700 mm	330 mm
63 mm x 5,8 mm	1,06 kg		106 kg	2200 mm	330 mm

50	1000 502	6m
63	1000 632	6m
90	1000 902	6m
110	1001 102	6m



Straight lengths: Dimensions	Weight pr. m	No. of pipes pr. pack	Weight pr. pack	Pack size			M. pr. pack
				L	B	H	
50 mm x 4,6 mm	0,672 kg	48	194 kg	6000 mm	540 mm	280 mm	288 m
63 mm x 5,8 mm	1,06 kg	48	306 kg	6000 mm	670 mm	340 mm	288 m
90 mm x 8,2 mm	2,14 kg	48	617 kg	6000 mm	930 mm	460 mm	288 m
110 mm x 10,0 mm	3,18 kg	48	916 kg	6000 mm	1140 mm	550 mm	288 m

Halock Twin, double - wall pipe/tuyau double-enveloppe



6 meter lengths

Art. nr.	Dimesion Halock	Dimesion Twin	Colour	Weight pr. m	Pack size			Weight pr. pack	M. pr. pack
					L	B	H		
1001504	50 x 4,6mm SDR 11	63mm	Red	1,35 kg	6000	x 670	x 340mm	389 kg	288
1001634	63 x 5,8mm SDR 11	75mm	Red	2,05 kg	6000	x 780	x 390mm	591 kg	288
1001644	90 x 8,2mm SDR 11	110mm	Red	3,4 kg	6000	x 1140	x 550mm	980 kg	288
1001654	110 x 10mm SDR 11	125mm	Red	4,8 kg	6000	x 1190	x 610mm	1239 kg	258



Coil

Art. nr.	Dimesion Halock	Dimesion Twin	Colour	Weight pr. m	Size pr. coil	Weight pr. coil	M. pr. coil
1001504	50 x 4,6mm SDR 11	63mm	Red	1,35 kg	2200 x 2200 x 330mm	135 kg	100
1001634	63 x 5,8mm SDR 11	75mm	Red	2,05 kg	2200 x 2200 x 400mm	205 kg	100



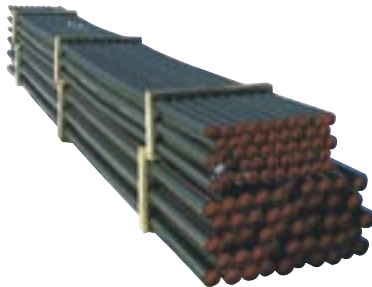
3-PE80 unlined pipes
4-PE80 tuyaux sans liner

d	Ref.	L
50	1000 500	100m
54	1000 540	100m
63	1000 630	100m



Coiled pipe:					
Dimensions	Weight pr. m	Weight pr. coil	Coil size Diameters	M. pr. coil B	
50 mm x 4,6 mm	0,672 kg	68 kg	1700 mm	330 mm	100 m
54 mm x 4,9 mm	0,80 kg	80 kg	1700 mm	330 mm	100 m
63 mm x 5,8 mm	1,06 kg	106 kg	2200 mm	330 mm	100 m

50	1000 508	6m**
63	1000 631	6m**
90	1000 901	6m**
110	1000 101	6m**



Straight lengths:							
Dimensions	Weight pr. m	No. of pies pr. pack	Weight pr. pack	Pack size			M. pr. pack
				L	B	H	
50 mm x 4,6 mm	0,672 kg	48	194 kg	6000 mm	540 mm	280 mm	288 m
63 mm x 5,8 mm	1,06 kg	48	306 kg	6000 mm	670 mm	340 mm	288 m
90 mm x 8,2 mm	2,14 kg	48	617 kg	6000 mm	930 mm	460 mm	288 m
110 mm x 10,0 mm	3,18 kg	48	916 kg	6000 mm	1140 mm	550 mm	288 m

Agrements Internationaux / International Approvals
(ERA, Shell International, N, S, F, PL, SP, R)

** alternative 5,80m (transport container)

Term boot



- Term boot 50/63 with test P/manchettes de terminaison avec PT
- Term boot 50/63 without TP/manchettes de terminasion sans PT
- Term boot 63/75 with TP/manchettes de terminasion avec PT
- Term boot 63/75 without TP/manchettes de terminasion sans PT
- Term boot 90/110 without TP/manchettes de terminasion sans PT

ELGEF®Plus: Manchon à Souder
Couplers

51 91 16



SDR11	d	D	L	g	SP
	50	66	88	134	12
	63	81	96	188	10
	90	113	125	411	5
	110	138	145	700	5

Ref. nr
753 911 610
753 911 611
753 911 613
753 911 614

ELGEF®Plus: Coude 45°
Elbow 45° with integral clamp

53 15 16



SDR11	d	D	L ₁	t	z	g	SP
	50	66	71	43	28	210	10
	63	81	81	48	32	328	10
	90	113	110	62	48	710	5
	110	136	132	71	61	1330	5

Ref. nr
753 151 610
753 151 611
753 151 813
753 151 814

ELGEF®Plus: Coude 90°
Elbow 90° with integral clamp

53 10 16



SDR11	d	D	L ₁	t	z	g	SP
	50	66	71	43	28	210	10
	63	81	81	48	32	328	10
	90	113	110	62	48	710	5
	110	136	132	71	61	1330	5

Ref. nr
753 101 610
753 101 611
753 101 813
753 101 814

ELGEF®Plus T 90° (ÉGAL) = 2 côtés soudables
Tee 90°, equal with integral clamp

53 21 16



SDR11	d	L	z	z ₁	L ₁	t	D	g	SP	Ref. nr
	50	135	24,5	126	90	43	66	254	5	753 211 610
	63	152	28	150	102	48	81	416	5	753 211 611
	90	202	41	146	84	61	112	910	5	753 201 813
	110	242	56	161	88	65	136	1420	5	753 201 814

ELGEF®Plus T 90° = 3 côtés soudables
Tee 90°, equal, kit

53 20 16



SDR11	d	L	z	z ₁	L ₁	t	D	g	SP	Ref. nr
	50	135	24,5	126	90	43	66	380	4	753 201 610
	63	152	28	150	102	48	81	604	4	753 201 611
	90	202	41	146	84	61	112		1	753 201 613
	110	242	56	161	88	65	136		1	753 201 614

ELGEF®Plus Réduction Electro soudable
Reducer

53 90 18



SDR11	d - d ₁	D	L	t ₁	t ₂	z	g	SP	Ref. nr
	63 - 50	81	106	43	48	15	189	10	753 901 658
	90 - 63	112	150	50	64	36	390	10	753 901 831
	110 - 90	136	171	61	71	39	740	4	753 901 833

ELGEF®Plus Manchon de Transition male 2" BSP.
Transition coupler PE/brass,
male thread with integral clamp

20 92 07



SDR11	d - Rp	D	L	S	g	SP
	50-1 1/2"	66	135	60	670	6
	63-2"	81	147	70	1000	3

Ref. nr
720 920 760
720 920 761

ELGEF®Plus Manchon de Transition
Femelle 2" BSP.
Transition coupler PE/brass,
female thread with integral clamp

20 92 02



SDR11	d - Rp	D	L	S	g	SP
	50-1 1/2"	66	126	60	750	6
	63-2"	81	138	70	980	3

Ref. nr
720 920 260
720 920 261

ELGEF®Plus Coude 90° de
Transition Femelle 2" BSP
Transition elbow 90° PE/brass,
female thread with integral clamp

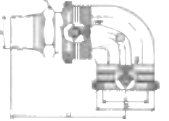
20 10 02



SDR11	d - Rp	D	L ₁	S	g	SP
	50-1 1/2"	66	109	60	790	6
	63-2"	81	123	70	1020	3

Ref. nr
720 100 260
720 100 261

ELGEF®Plus: Coude 90° de Transition
Male 2" BSP.
Transition elbow 90° PE/brass,
male thread with integral clamp

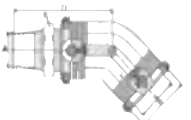
SDR11	d - Rp	D	L ₁	S	g	SP
	50-1 1/2"	66	118	60	710	6
	63-2"	81	132	70	1040	3

20 10 07



Ref. nr
720 100 760
720 100 761

ELGEF®Plus: Coude 45° de Transition
Male 2" BSP.
Transition elbow 45° PE/brass,
male thread with integral clamp

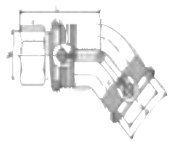
SDR11	d - Rp	D	L ₁	S	g	SP
	50-1 1/2"	66	103	60	700	6
	63-2"	81	114	70	1030	3

20 15 07



Ref. nr
720 150 760
720 150 761

ELGEF®Plus: Coude 45° de
Transition Femelle 2" BSP
Transition elbow 45° PE/brass,
female thread with integral clamp

SDR11	d - Rp	D	L ₁	S	g	SP
	50-1 1/2"	66	94	60	780	6
	63-2"	81	105	70	1120	3

20 15 02



Ref. nr
720 150 260
720 150 261

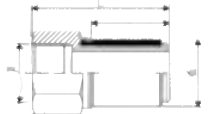
ELGEF®Plus: Adapteur PE/laiton -male BSP.
Adaptor PE/brass, with male thread

SDR11	d - Rp	L	Z		g	SP
	50-1 1/2"	90	43			1
	63-2"	98	47			1



Ref. nr
720 920 710
720 920 711

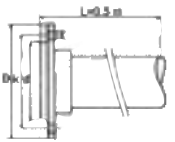
ELGEF®Plus: Adapteur PE/laiton -femelle BSP
Adaptor PE/brass, with female thread

SDR11	d - Rp	L	Z		g	SP
	50-1 1/2"	81	43			1
	63-2"	89	47			1



Ref. nr
720 920 210
720 920 211

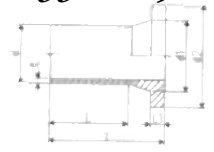
ELGEF®Adapteur de Transition Drawlock
- Male ou Femelle BSP/Male or Female BSP
Flange (Type 2853)

SDR11	d - DN	D	k	t	e	g	SP
	90 x 80	200	160	138	8xM16	4,2	1
	110 x 100	220	180	158	8xM16	6,8	1



Ref. nr
775 079 288
775 079 292

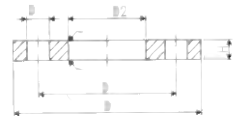
Collet Long.
Flange adaptor, long (ISO S5)
Joint: plat (voir ci-après)
Bride (voir ci-après)
PE 80 SDR 11 (ISO S5)

	d		SP	dl	d2	z	L	L1	•
	50		10	61	88	92	63	12	4,6
	63		10	75	102	100	69	14	5,8
	90		10	106	138	140	101	17	8,2
	110		10	126	158	160	120	18	10



Ref. nr
733 800 910
733 800 911
733 800 913
110 800 914

BRIDE LIBRE.
PP-Steel Flanges for Butt Fusion Systems
ISO/DIN

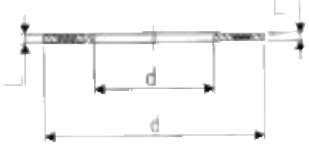
	d	DN	PN		SP
	50	40	16		17
	63	50	16		15
	90	80	16		9
	110	100	16		13



Ref. nr
727 700 210
727 700 211
727 700 313
727 700 314

JOINTS DE BRIDE AUTOCENTREUR FPM
GASKETS
Flange seal corresponds to the centering at the innerdiameter of the screw crown

Profile flanged seals G-ST
suitable for flanged adaptor no. 33 80 09,
53 80 08 and 53 80 10. Jointing surfaces: serrated or flat
NBR/DUO = Nitrile rubber, hardness approx.
80° Shore suitable for drinking water and gas applications
approved acc. to DVGW standard DIN 3535/part 3 and note sheet 270.
KTW recommendation, max. Operating pressure 16 bar.

	d		SP	d1xdxL/L1	Wall thickness
	50		1	42x92x ³ / ₄	11/7,6
	63		1	53x107x ⁴ / ₅	11/7,6
	90		1	76x142x ⁴ / ₅	11/7,6
	110		1	93x162x ⁵ / ₆	11/7,6



Ref. nr
745 440 305
745 440 306
745 440 308
745 440 309



Poste de soudage MSA MSA control units
With Euro plug = avec prise européenne standard

Type	Code		SP	
MSA 300	799 350 375		-	Avec code barre
MSA 350			-	
MSA 400	799 350 376		-	



Clips adapteurs pour machine MSA (Clips)

d	Code		SP	Description
4,0 mm	799 350 340		-	angle adaptor, pair
4,7 mm	799 350 341		-	angle adaptor, pair



Cable Transmission PC
Data transmission cable for MSA units

Type	Code		SP	Description
MSA 2000,3000	799 350 263		-	serial RS 232, 9 pin



Fiche Transition 9PIN/25PIN (Transition plug 9 PIN/25PIN)

Type	Code		SP	Description
MSA 2000,3000	799 350 264		-	for data transmission

9 300 600 **GRATTOIR ROTATIF pour TUBE**

Rotary Scraper d 50 - 225mm
for time -saving preparation of the fusion area of electrofusion couplers and saddles



d	Code		SP	
50	799 300 610		1	
63	799 300 611		1	
90	799 300 613		1	
110	799 300 614		1	

Pièces Détachées pour Grattoir
Spare parts for rotary scraper

Pga	Code	SP	Size	Batch	Description
B	799 130 289	-	50-90		BLADE
	799 130 288	-	110-125		

Grattoir rotatif

Rotary peeler.
Hardened metal cutting blade usable on four sides.



d	Code		SP	Description
90-500	799 150 255		-	Cutting plate
90-600	799 150 221		-	Tool holder

9 198 033 **GRATTOIR pour tube (Pipe Scraping tool)**

For preparing PE pipes prior to fusion jointing. The rotary scraper 9 300 600 are more suitable for uniform and time-saving preparation.



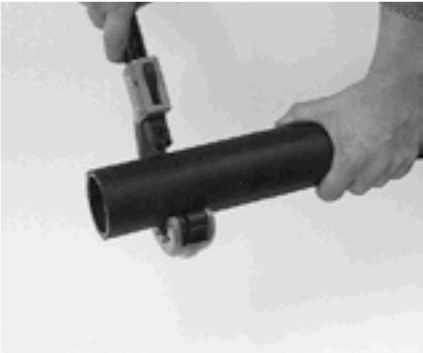
	Code		SP	
	799 198 033		-	

9 301 525 **Aligneur de Tubes (Twin-clamp)**

For straight and coiled PE pipes. Protects the joint from pulling out and twisting during fusion and the cooling phase



d	Code		SP	
50	799 301 340		-	
63	799 301 341		-	



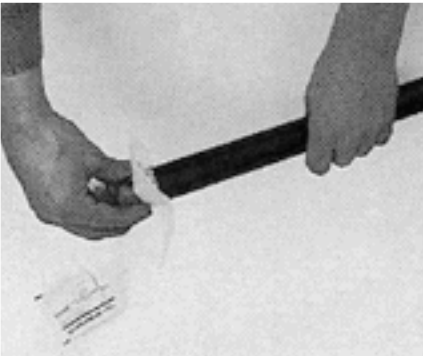
Clean pipe(s), cut at right angles and trim.

Nettoyer la tuyauterie, couper à angle droit et enlever les bavures.



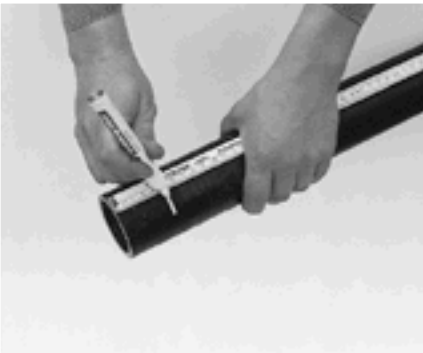
Remove oxide film of pipe(s) using scaper (adhere to max. permissible wall thickness reduction).

Peler la fine couche oxydée sur la partie à souder (en utilisant le grattoir rotatif ou équivalent - suivre les règles concernant la réduction d'épaisseur maximale)



Clean pipe(s) in fusion zone with duster and PE cleaner.

Nettoyer la partie à souder avec un dépoussiérant et dégraissant (voir nos produits)



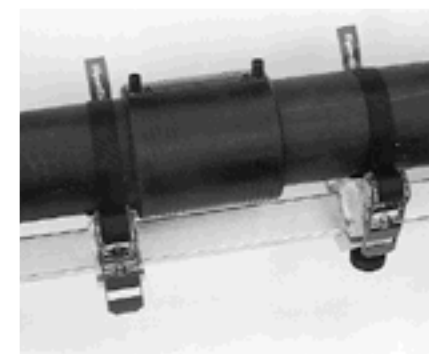
Mark the insertion depth on the pipe.

Marquer sur le tuyau jusqu'où le raccord va venir s'insérer.



Remove the fitting(s) from the packaging without touching the fusion surface.

Retirer le film recouvrant le raccord sans toucher sa surface de soudage.



After fusion: Check fusion indicator on fitting and fusion unit display, then remove cable. Wait for cooling, finally remove assembly attachment. Refer to magnet card imprint and fusion unit display for cooling time.

Suivre les instructions de soudage de l'appareil utilisé pour toutes les électrofusions.



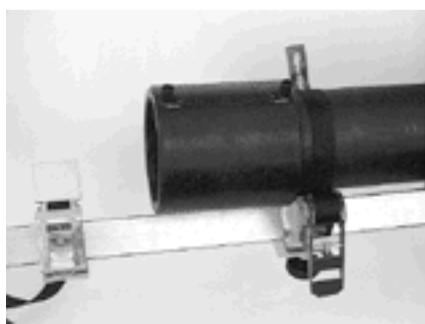
Slide in second pipe up to center stop or marking. Firmly fasten integrated clamp. Mount and fix assembly attachment.

Glisser le 1er tuyau à l'intérieur du raccord jusqu'à la marque (ou le stoppeur central). Serrer fermement les attaches intégrées pour maintenir le raccord en bonne position.



Follow operating instructions for fusion.

Après la fusion : vérifier les picots sur les raccords et l'écran de contrôle de l'appareil, attendre le temps de refroidissement indiqué par l'appareil ou la carte magnétique livrée, puis retirer les câbles. Ensuite retirer le système de maintien (quand c'est applicable).



Or hold the pipe with the assembled fitting in a clamping device.

Ou pour les raccords sans attaches intégrées, tenir le tuyau dans le support prévu à cet effet (afin de souder de manière bien droite)



Slide in second pipe up center stop or marking. Firmly fasten integrated clamp. Mount and fix assembly attachment.

Glisser le 2nd tuyau à l'intérieur du raccord jusqu'à la marque (ou le stoppeur central). Serrer fermement les attaches intégrées pour maintenir le raccord en bonne position (ou voir image précédente si absence d'attaches intégrées).

This is to certify that the Quality System of
HALLINGPLAST A/S
3570 Ål

complies with Quality System Standard

NS-EN ISO 9001 : 2000

The certificate is valid for the following activities:
**Design and Development, Manufacturing and
Sales of Polyethylene and Polypropylene
Tubing.**

CERTIFICATE

The certificate expires: **30.05.2007**

Initially certificated: **30.05.1995**

Dovre Certification AS

Stavanger, **21.05.2004**

Certificate No.: **033**


Company's Representative
Birger Flaa


Dovre Certification AS


Lead Auditor
Atle Storås



The equivalence of the quality of the certificate issued under accreditation granted by an accreditation body that is a signatory to the IAC Multilateral Agreement is recognised by the other signatories as laid down in the Agreement.



Certificate of Compliance

Issued to : Hallingplast A/S, Norway and Georg Fischer RLS AG, Switzerland.

Item : Underground petroleum pipework for positive pressure and suction delivery fuel lines.

Type Reference : HALOCK™ product range, with ELGEF® electrofusion connections, for pipes up to and including 110 mm in diameter.

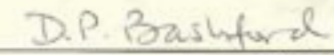
This is to certify that samples of the product defined above have been tested by ERA Technology Ltd and found to comply with the following requirements :

Institute of Petroleum Performance Specification for Underground Pipework Systems at Petrol Filling Stations.

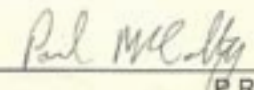
ISBN O 85293 1646, November 1995.

Full details are given in ERA report number : 97-1066

Certificate prepared by :

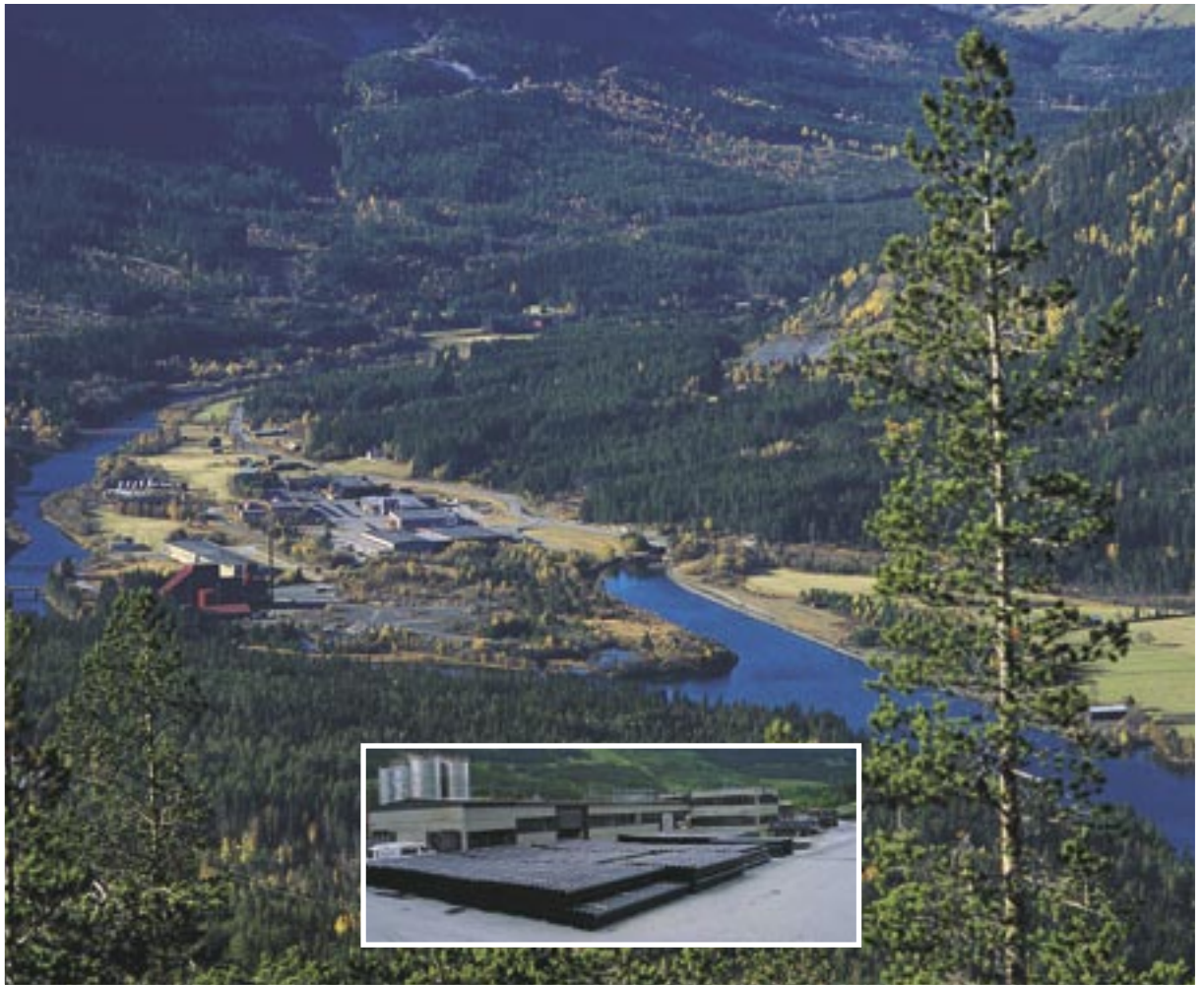

D P Bashford
Principal Scientist
Materials Testing Department

Certificate approved by :


P R McCarthy
Manager
Materials Testing Department

Certificate number: BC63/1066/97/001 dated: 20 November 1997

ERA Technology Ltd, Cleeve Road, Leatherhead, Surrey KT22 7SA
ERA Technology Ltd, Unit 8 Woodfieldside Business Park, Pontilafraith, Blackwood, Gwent NP2 2DG
ERA Technology Inc, 19424 Park Row, Suite 140, Houston, Texas 77084, USA
ERA Technology (Asia) Pte Ltd, 83 Science Park Drive, #03-02A The Curie, Singapore 118258



Marco Tech Sarl

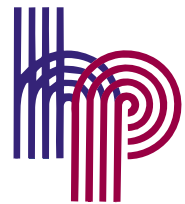
TÉL: 05 57 30 63 00/Int. 033 557 30 63 00

Fax: 05 57 30 63 01

QUAI CARRIET (Montané)

33310 - LORMONT

marcotech@free.fr



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PRODUSENT: HALLINGPLAST - FOTO: BRYE STUDIO
TRYKK & REPRO: HALLINGPRENT A.S