



EARN SCHIEDEL  
INSTALLER REWARDS!

# Ceramic Chimney Liners

**SCHIEDEL**



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SAP Issue 1 ----- June 2019

# Ceramic Flue Liner

In order to meet the new European Standards for Chimney products, specific leakage and performance criteria have to be met, which are much more stringent than in the past.

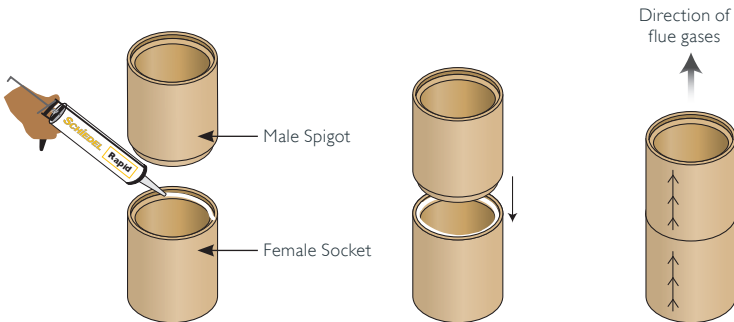
Schiedel have invested in the latest production technology and are proud to introduce a new range of high performance rebated ceramic flue liners, which are fully CE tested and approved and are fully compatible with the increasingly efficient modern appliances, as well as meeting the more traditional soot fire requirements.

This new generation of rebated ceramic chimney liners is available as standard in the following diameter range: 160mm, 180mm, 200mm.



## Joint Detail

Liners are installed with the male spigot pointing downwards. Sealant should be applied to the inside of the female socket and any excess projecting into the flue should be wiped off as installation progresses.



## Approvals

Schiedel Ceramic Liners are CE Certified to EN 1457-1 & 2 TÜV 0780 CPD 131086 with the following designations:

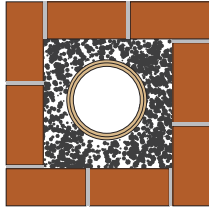


High Temperature Applications	Low Temperature Applications
EN 1457-1 A1 N1 (T600 N1 G)	EN 1457-2 B4 N1 (T400 N1 WC O) D4 N1 (T200 N1 WC O)*

\* When used on T200 rated low temperature systems, the liner system should be straight and fully ventilated.

# Usage of Ceramic Sealant & Light Expanded Clay Aggregate

## RAPID HT CEMENT USAGE



Int Ø mm	No. Joints per Tube
160	9
180	7
200	6

## LIGHT EXPANDED CLAY AGGREGATE INSULATION REQUIREMENT FOR BACKFILL

Int Ø mm	Ext Ø mm	Chimney Vold (mm)	Chimney Vold (inches)	Bags (per linear metre)
160	190	235 x 235	9" x 9"	0.48
160	190	235 x 350	9" x 14"	1.02
160	190	350 x 350	14" x 14"	1.82
180	210	235 x 235	9" x 9"	1.08
180	210	235 x 350	9" x 14"	1.62
180	210	350 x 350	14" x 14"	2.42
200	230	350 x 350	14" x 14"	2.15
200	230	350 x 460	14" x 18"	2.49
200	230	460 x 460	18" x 18"	4.20

## Offsets

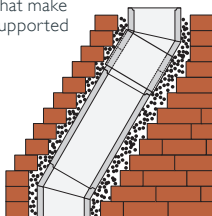
Diameter (mm)	Bends 30°	Length 330 mm	Total Height	Total Offset
160	2	0	612	164
160	2	1	899	330
180	2	0	612	164
180	2	1	899	330
200	2	0	612	164
200	2	1	899	330

Diameter (mm)	Bends 37.5°	Length 330 mm	Total Height	Total Offset
160	2	0	588	200
160	2	1	851	402
180	2	0	588	200
180	2	1	851	402
200	2	0	588	200
200	2	1	851	402

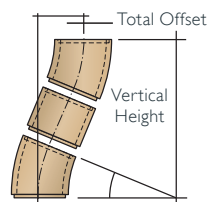
Diameter (mm)	Bends 45°	Length 330 mm	Total Height	Total Offset
160	2	0	559	232
160	2	1	794	466
180	2	0	559	232
180	2	1	794	466
200	2	0	559	232
200	2	1	794	466

## SUPPORTING AN OFFSET

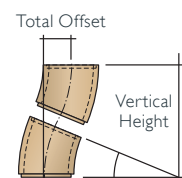
The bends and liners that make up an offset must be supported adequately



## OFFSET WITH 2 BENDS & LINER



## OFFSET WITH 2 BENDS



# Typical Liner Installation Detail

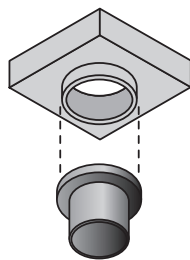
Construction begins by providing a suitable foundation and constructional hearth in accordance with Building Regulations and site requirements.

## STOVE IN RECESS OPTION

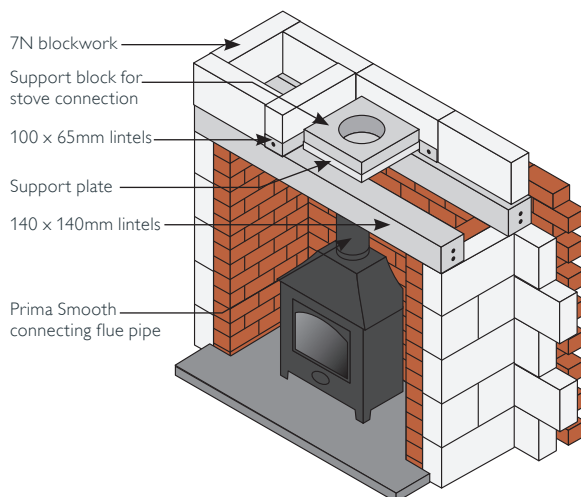
Our pre stressed lintels can be installed above the fireplace recess, for this method a support plate is required under the support block.

Alternatively a suitable cast-in-situ concrete slab lintel can be created above the fireplace recess. (See our standard drawings for hole size depending on diameter of chosen flue).

The support block is bedded onto the slab lintel using weak mix mortar. A stainless steel adaptor is used to connect from the support block to the stove flue pipe. This adaptor is pushed up onto the support block spigot (fibre rope should be used to create a seal). It is recommended to have a minimum of 600mm length of flue pipe before connecting to the chimney.



## STOVE IN RECESS OPTION

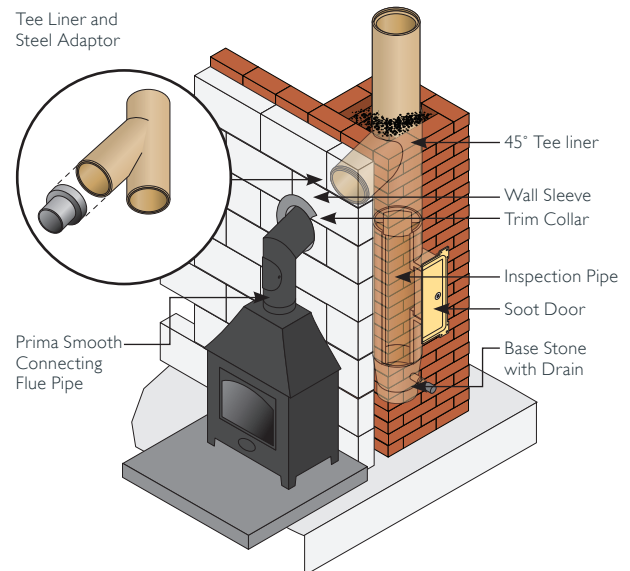


## FREE STANDING STOVE OPTION

A soot door must be provided below the flue pipe entry to allow for inspection and removal of soot and debris. A suitable wall sleeve is to be used to seal the cavity wall. Any combustible insulation within the wall must be kept away from the single skin connecting flue pipe by at least 1.5 x its diameter.  
(Example: diameter 150mm x 1.5 = 225mm distance).

The flue pipe is a push fit over the spigot on the adaptor. Seal off the gap between the flue pipe and wall sleeve with fire proof rope and closing plate.

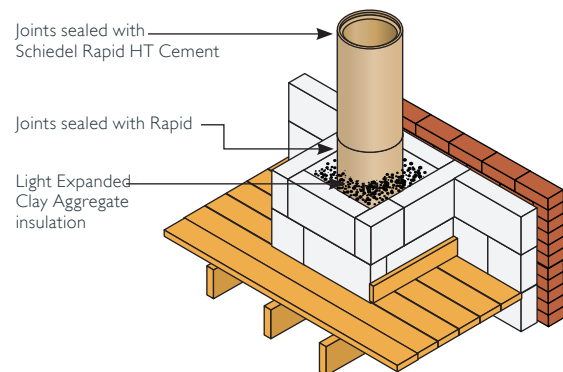
## FREE STANDING STOVE OPTION



## ALL OPTIONS

Apply Schiedel Rapid Cement onto the male rebate of the flue liner.

Position the flue liner on a suitably formed fire gather or support block with the female rebate facing upwards. Arrows on each flue liner indicate the directional flow of flue gases. Continue to apply high temperature cement to each flue liner, cleaning any access material from the joints.



Clad the flue liners with a minimum of 100mm suitable masonry. A minimum of 15mm Leca insulation must be installed between the flue liners and masonry. Mix 20 parts Leca to 1 Part cement and a small amount of water. Ensure it is well mixed before using. (refer to table on page 3)

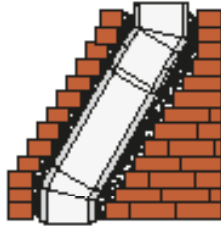


# Installation Detail

If Bends are required in the chimney make sure adequate support is provided and always backfill with leca insulation mix. Liners can be cut between bends to achieve a required offset distance. A steel collar as well as high temperature cement must be used for any cut joints. A maximum of 2 complete offsets (4 bends) are allowed per chimney and the angle must not be greater than 45° from the vertical.

## SUPPORTING AN OFFSET

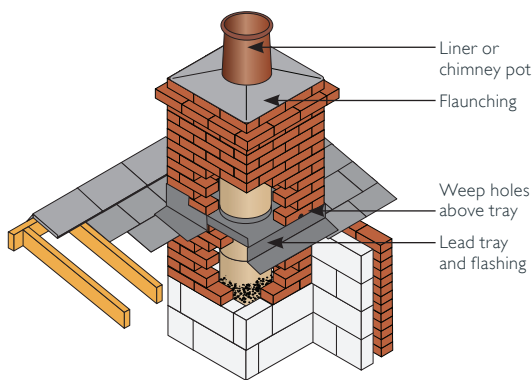
The bends and liners that make up an offset must be supported adequately



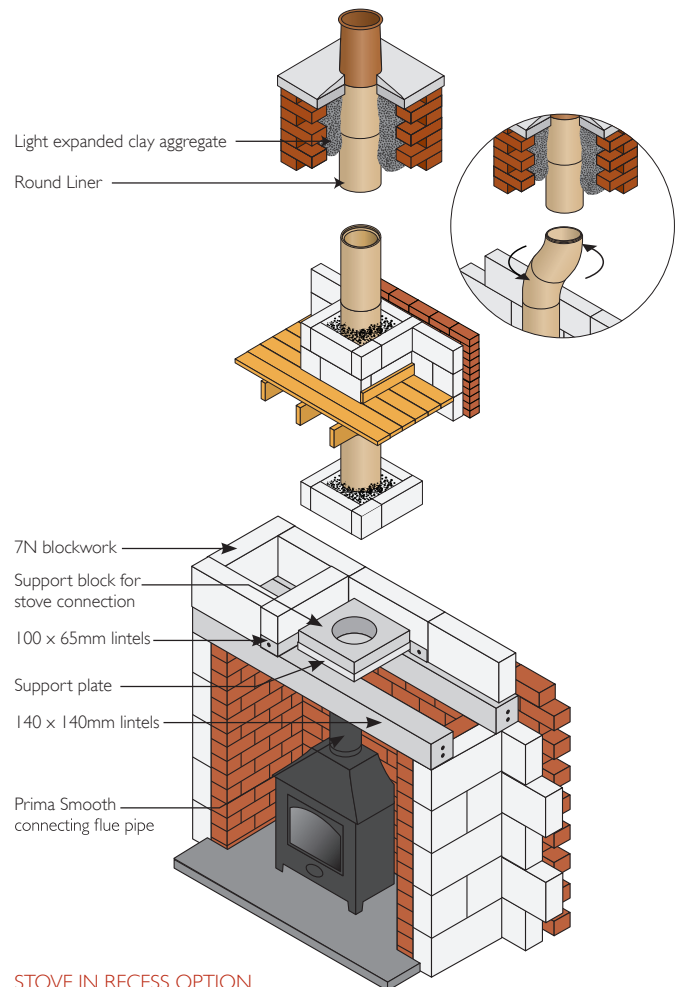
You must provide adequate clearance from combustible material in accordance with local Building Regulations. Combustible materials must be 200mm from the inner surface of flue liner or 40mm from the outside of the masonry chimney unless it is a floorboard, skirting board, dado or picture rail, mantel-shelf or architrave.

Fit appropriate lead dpc's and flashings in accordance with the relevant regulations. It is recommended that the lead tray should be dressed up the outside of the flue liners to avoid a weak joint. Weep holes should be provided above the tray for moisture drainage.

Terminate the chimney to the correct height in accordance with local Building Regulations. The chimney can be finished by flaunching (1:3 cement/sharp sand) around a suitable chimney pot. Approved rain caps can be used to help prevent water entering the flue.



## STOVE IN RECESS OPTION



## AFTER COMPLETION

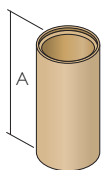
After installation is complete tests and checks should be carried out in accordance with local Building Regulations. A chimney notice plate must be completed and permanently fixed in the dwelling, ideally near the electrical consumer unit. The checklist and notice plate are available from Schiedel.

## USE AND MAINTENANCE

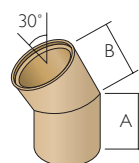
The chimney should be swept at least twice a year, once before the heating season and once after the heating season. You may need to sweep during the heating season depending upon use.

Always follow the appliance manufacturer's operating instructions. Always burn approved fuels or dry seasoned wood. Avoid burning unseasoned wood and slow burning of solid fuels as this can produce excessive soot and condensation which can in turn cause soot fires and damage. If correctly installed, operated and maintained these systems should last the life of the dwelling.

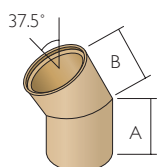
# Liners



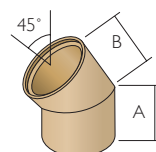
Liner				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
A	330	330	330	
Weight	5.8	6.3	7.1	
Pallet Qty	125	100	75	
SAP Code	100374	100375	100376	



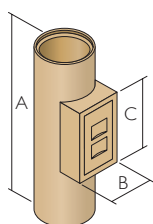
30° Bend				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
A	189	192	194	
B	189	192	194	
Weight	5.8	6.3	7.1	
SAP Code	131625	131626	131627	



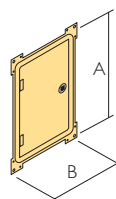
37.5° Bend				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
A	164	164	164	
B	164	164	164	
Weight	5.8	6.3	7.1	
SAP Code	121334	121335	121336	



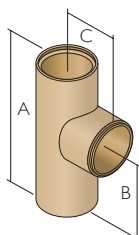
45° Bend				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
A	203	207	211	
B	203	207	211	
Weight	5.8	6.3	7.1	
SAP Code	131622	131623	131624	



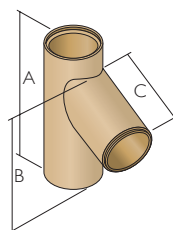
Inspection Pipe with Inner Soot Door				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
A	660	660	660	
B	165	165	165	
C	295	295	295	
Weight	14	15	17	
SAP Code	100428	100429	100430	



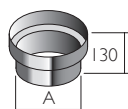
Outer Soot Door				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
A	400	400	400	
B	250	250	250	
SAP Code	100475	100475	100475	



90° Tee Liner				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
A	660	660	660	
B	331	331	331	
C	175	190	195	
Weight	14	15	16	
SAP Code	100420	100421	100422	



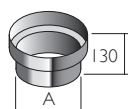
135° Tee Liner				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
A	660	660	660	
B	463	481	497	
C	311	326	357	
Weight	16	18	19	
SAP Code	100424	100425	100426	



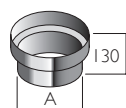
Adaptor from Steel to Ceramic T Liner				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
Ø Steel (A)	150	175	200	
SAP Code	132667	132668	132669	



Steel collars (for cut joints)				
Int Ømm	160	180	200	
SAP Code	158122	-	158123	

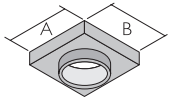


Adaptor from Steel to Support Block				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
Ø Steel (A)	150	175	200	
SAP Code	126373	126499	127691	



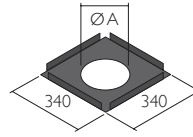
Increasing Adaptor from Steel to Support Block (with rope)				
Int Ømm	160	180	200	
Ext Ø	190	210	230	
Ø Steel (A)	125	150	150	
SAP Code	126357	126493	127671	

# Components



## Support Blocks

Int Ømm	160	180	200
Ext Ø	190	210	230
Weight	7	8	8
SAP Code	126366	126483	127340



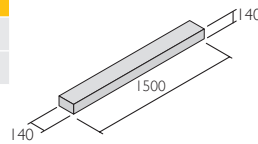
## Support Plate

Int Ømm	160	180	200
Ext Ø	340	360	360
SAP Code	127694	128549	128549



## Rapid High Temperature Joint Sealant

Size ml	310
SAP Code	100020



## Support Lintel

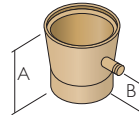
Size mm	140x140
Length mm	1500
Weight kg	71
SAP Code	146431

Lintels are used in pairs to support the weight of the support block and liners as an alternative to a cast slab. On a clear span of up to 1.2m a load of up to 3250Kg can be supported.



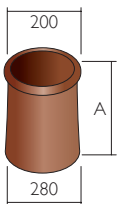
## Light Expanded Clay Aggregate Backfill Insulation (50 litre)

Size m <sup>3</sup>	0.05
Weight kg	19
SAP Code	130769



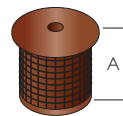
## Base Stone with Drain

Int Ømm	160	180	200
A	170	170	170
B	70	70	70
SAP Code	102984	102685	10686



## Chimney Pot (Buff and Terracotta options)

Int Ømm	150	200
A	450	450
SAP Code Buff	126370	130697
SAP Code T'cotta	126371	127341



## Topguard (Buff and Terracotta options)

Int Ømm	150-250
A	300
SAP Code Buff	130742
SAP Code T'cotta	130737



## Chimney Notice Plate

SAP Code	130696
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# Complementary Products And Services From Schiedel Chimney Systems



## ICS

Twin Wall Insulated System Chimney for gas, oil and multi-fuel applications.

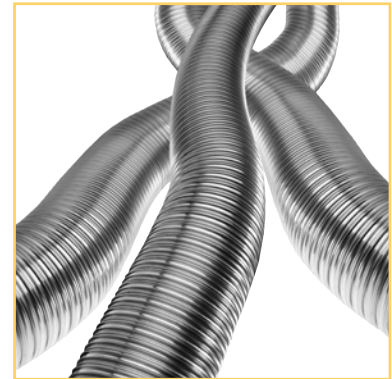
- Capillary break prevents moisture being drawn through the joint
- 80-300mm Diameter range



## PRIMA PLUS

Single Wall Stainless Steel Flue System

- Prima Plus available 0.6mm or 1mm options for domestic multi-fuel stoves
- Prima Plus for large residential & commercial condensing gas & oil appliances & chimney relining
- 80-300mm Diameter range



## TECNOFLEX PLUS

For relining existing chimneys to take gas, oil, wood, multi-fuel appliances and open fires.

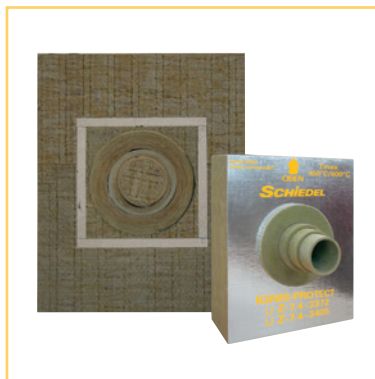
- Twin skin TecnoFlex Plus available in 316L or 904L options
- 80-300mm Diameter range



## PRIMA SMOOTH

Single Wall Stainless Steel Connecting Flue Pipe for use on wood and multi-fuel applications.

- 316L Grade stainless steel
- Available in matt black or steel finish
- 125-200mm internal diameters



## IGNIS-PROTECT

Designed specifically for Air Tight, Energy Efficient and Timber Framed Buildings



## DM & LINERS

Pumice System Chimneys, Firechests and Liners.

- Pumice is a natural insulator, able to maintain the temperature of flue gases
- Lightweight – allowing one person to lift and build the chimney units
- Pumice expands and contracts less with temperature change than other chimney systems.

**SCHIEDEL**

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## SCHIEDEL INSTALLER REWARDS

Exciting news from Schiedel Chimney Systems!  
Whenever you register an installation with our easy to use, online guarantee registration portal, you will now accrue points based on the number of installations and installation type to redeem for Love2Shop vouchers!



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INDUSTRIES COMPANY