



CERTIFICATE OF APPROVAL

No CF5675

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

ATHMER OHG

Sophienhammer, D-59757, Arnsberg-Muschede
TEL: 49 2932 477 500

Have been assessed against the requirements of the Technical Schedule(s)
denoted below and are approved for use subject to the conditions
appended hereto:

CERTIFIED PRODUCT

Athmer Schall-Ex, Isolporte and
Stadi, Smoke and Acoustic
Dropseals

TECHNICAL SCHEDULE

TS21 The Contribution of Edge
Seals to the Control of Smoke
Leakage via Door Assemblies

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager



Issued: 28th September 2018
Reissued: 19th June 2023
Valid to: 18th June 2028





CERTIFICATE No CF5675 ATHMER OHG

Athmer Schall-Ex, Isolporte, Stadi Smoke and Acoustic Seals.

1. This approval relates to the use of the following specific Athmer Schall-Ex, Isolporte and Stadi smoke and acoustic dropseals.

Product reference	Article No
NOR820	1-131
Schall-Ex L-8/30	1-1000
Schall-Ex L-15/30 WS	1-880
Schall-Ex L-15/30 OS	1-881
Schall-Ex XL-15/30 WS	1-820
Schall-Ex XL-15/30 OS	1-857
Schall-Ex L-15 FS	1-884 (C-0) 1-885 (c-31) 1-888 (RAL 9016)
Schall-Ex L-15/30 WS PIVOT	1-946
Schall-Ex Duo L-15 WS	1-382
Schall-Ex Duo L-15 QF-S	1-694
Schall-Ex Duo L-15/31 OS	1-383
Schall-Ex Duo L-15/30 VS	1-720
Schall-Ex Duo L-15/28 OS	1-404
Schall-Ex Duo L-15 QF	1-544
Schall-Ex L-14/35 EK	1-935
Schall-Ex Ultra WS double-sided	1-290
Schall-Ex Ultra WS single-sided	1-291
Schall-Ex Ultra OS double-sided	1-292
Schall-Ex Ultra OS single-sided	1-293
Isolporte Standard Silicone double-sided	1-152
Isolporte Standard Silicone single-sided	1-153
Isolporte Omega double-sided	1-146
Isolporte Omega single-sided	1-147
Stadi L-17/20 WS	1-940
Stadi L-20/20 WS	1-939
Stadi L-20/20 OS	1-972
Stadi L-24/20 WS	1-938 1-603
Stadi L-24/20 OS	1-605 1-959
Stadi LD-17/20 WS	1-953
Stadi LD-20/20 WS	1-952
Stadi LD-24/20 WS	1-951

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CERTIFICATE No CF5675 ATHMER OHG

Athmer Schall-Ex, Isolporte and Stadi Smoke and Acoustic Seals.

1. This certification is provided to the client for their own purposes, and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
2. The Athmer seals approved in this certificate are aluminium cased automatic threshold seals. They are used for sealing the threshold of door assemblies against leakage of ambient temperature smoke, as defined in BS 476: Part 31.1: 1983. They do not contain intumescent material.
3. Within BS 9999, a fire door required to resist the passage of smoke at ambient temperature conditions should, when tested in accordance with BS 476-31.1 with the threshold taped and subjected to a pressure of 25 Pa, have a leakage not exceeding 3 m³/m/h. The threshold gap should be sealed by a seal either with a leakage rate not exceeding 3m³/m/h at 25 Pa when tested to BS 476-31.1 or just contacting the floor. Where this is impracticable the threshold gap should not exceed 3 mm at any point.
4. The door seals are approved on the basis of:
 - i) Initial type testing
 - ii) A design appraisal against TS21
 - iii) Certification of quality management system to ISO 9001: 2008.
 - iv) Inspection and surveillance of factory production control
 - v) Audit testing
5. This approval certifies that the above seals are suitable for use with single-acting, hinged, door assemblies required to restrict smoke leakage at ambient temperatures as defined in Appendix B of Approved Document B, 'Fire Safety' to the Building Regulations 2010. It is applicable to latched and unlatched, single leaf and double leaf assemblies consisting of timber faced and edged leaves with timber, cellulosic cores in timber frames with or without intumescent edge seals (Code ITT and TT respectively). It is only applicable to assemblies that have been approved, or have been shown by test, to achieve the required period of fire resistance.
7. The following table shows acceptable doorset types and fire resistance periods:

Door Assembly Type							
Class	ITT			ITM / ITC			IMM / MM
	C	H	I-O	C	H	I-O	M
FD20	✓	✓	✓	x	x	x	x
FD30	✓	✓	✓	x	x	x	x
FD60	✓	✓	✓	x	x	x	x

Table 1: Universal Matrix for Field of Application

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Athmer Schall-Ex, Isolporte and Stadi Smoke and Acoustic Seals.

8. Doors are classified as the following types:

Type MM - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that do not contain intumescent materials in the frame to leaf gap.

Type IMM - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that contain intumescent materials in the frame to leaf gap.

Type ITT - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in timber frames

Type ITM - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in metal frames.

9. It is sometimes necessary to sub-divide fire doors into the following categories:

Type C - Door leaves where all parts of the construction are of timber or other cellulosic material, e.g., flaxboard, chipboard, fibreboard etc, or leaves where inorganic or mineral based materials are surrounded by softwood or hardwood framing. The mineral based material may be in the form of a solid slab or as sub-facings either side of a void, with or without intermediate rails. The timber framing must be unprotected for not less than 40mm which includes any lipping. The framing may be reinforced by additional timber or similar material at the head or at lock blocks to product a larger frame to support ironmongery.

Type I-O - Door leaves constructed primarily of inorganic, or mineral based materials where the surrounding frame of timber is less than 40mm wide, including any lippings.

Type H - Door leaves where a type 'C' door leaf, normally all of cellulosic construction is faced on both sides with an inorganic board or a rigid intumescent sheet material not less than 2mm thick, either as a facing or a sub-facing. This material will extend from leaf edge to leaf edge, excluding any lippings.

Type M - Door leaves where the facings or sub-facings are of a steel construction and where the edges are metal (excluding any seals fitted), including primarily glazed leaves where the structural leaf framing consist of metal sections.

10. The seals shall be uninterrupted and fixed to the bottom edge of door leaves. Double leaf door assemblies shall additionally incorporate a threshold seal to both door leaves. The seals shall be installed in accordance with the manufacturer's instructions.
11. The acoustic performance of the above seals is not considered as part of this appraisal.

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12. The approval relates to ongoing production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

Table 2. Drawings of seals

Schall-Ex L-15/30 WS Article No. 1-880	Schall-Ex L-15/30 OS Article No. 1-881	Schall-Ex XL-15/30 WS Article No. 1-820
Schall-Ex XL-15/30 OS	Schall-Ex L-15 FS	Schall-Ex L-14/35 EK
Article No. 1-857	Article No. 1-884 (C-0) Article No. 1-885 (c-31) Article 1-888 (RAL 9016)	Article No. 1-935

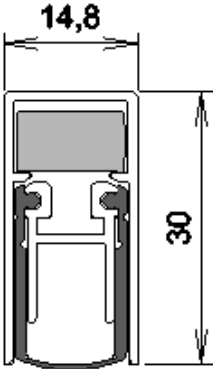
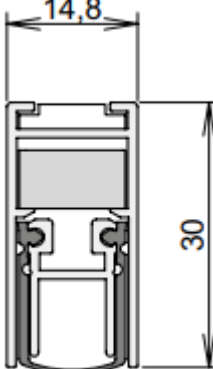
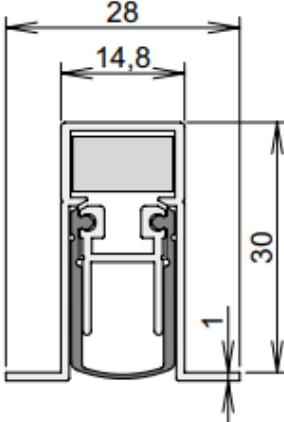
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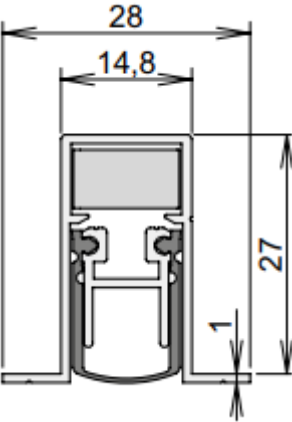
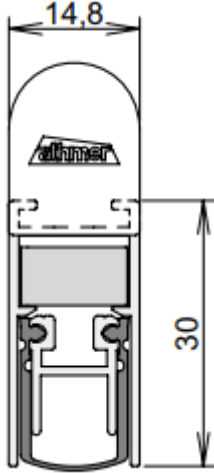
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Table 2 (Continued). Drawings of seals

		
Schall-Ex Duo L-15 WS	Schall-Ex Duo L-15 QF-S	Schall-Ex Duo L-15/31 OS
Article No. 1-382	Article No. 1-694	Article No. 1-383

		
Schall-Ex Duo L-15/30 VS	Schall-Ex Duo L-15/28 OS	Schall-Ex Duo L-15 QF
Article No. 1-720	Article No. 1-404	Article No. 1-544

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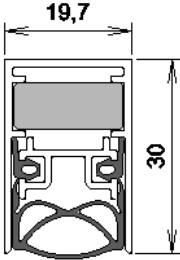
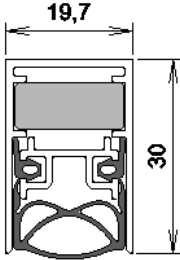
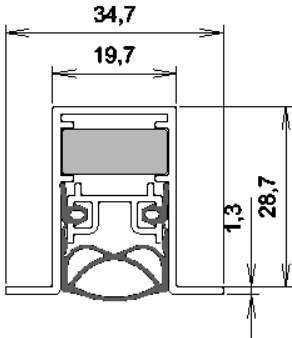
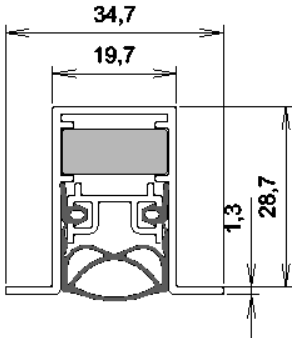


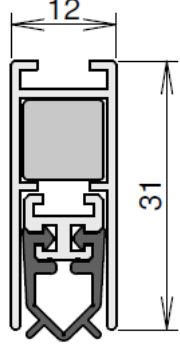
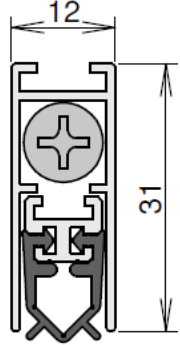
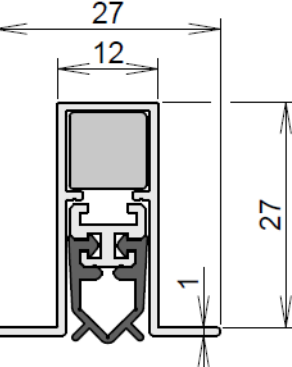
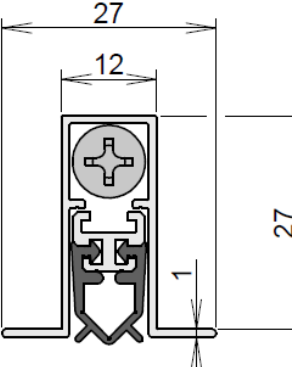
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Table 2 (Continued). Drawings of seals

			
Schall-Ex Ultra WS double sided	Schall-Ex Ultra WS single sided	Schall-Ex Ultra OS double sided	Schall-Ex Ultra OS single sided
Article No. 1-290	Article No. 1-291	Article No. 1-292	Article No. 1-293

			
Isolporte Standard Silicone double sided	Isolporte Standard Silicone single sided	Isolporte Omega double sided	Isolporte Omega single sided
Article No. 1-152	Article No. 1-153	Article No. 1-146	Article No. 1-147

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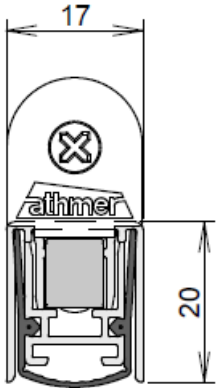
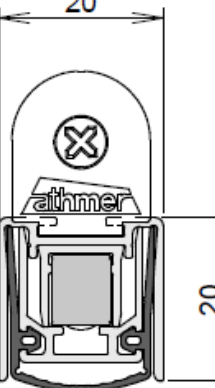
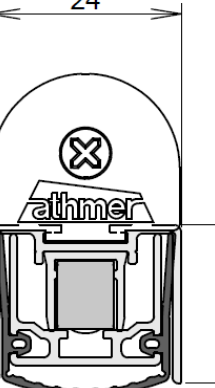


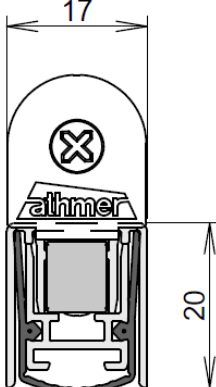
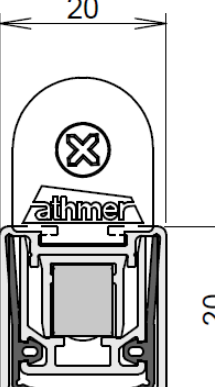

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Figure 1 (Continued). Drawings of seals

		
Stadi L-17/20 WS	Stadi L-20/20 WS	Stadi L-24/20 WS
Article No. 1-940	Article No. 1-939	Article No. 1-938

		
Stadi LD-17/20 WS	Stadi LD-20/20 WS	Stadi LD-24/20 WS
Article No. 1-953	Article No. 1-952	Article No. 1-951

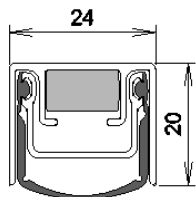
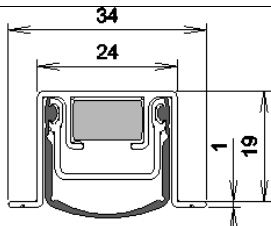
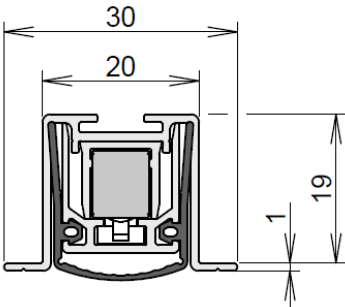
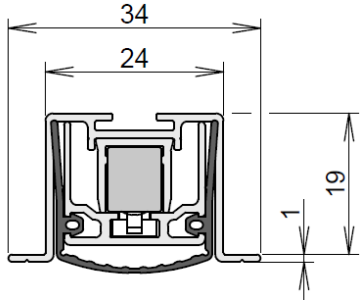
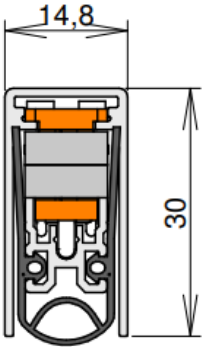
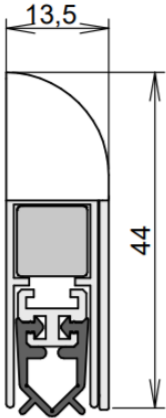
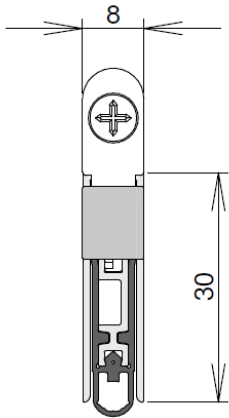
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Table 2 (Continued). Drawings of seals		
		
Stadi L-24/20 WS	Stadi L-24/20 OS	
Article No. 1-603	Article No. 1-605	
		
Stadi L-20/20 OS	Stadi L-24/20 OS	
Article No. 1-972	Article No. 1-959	
		
Schall-Ex L-15/30 WS PIVOT	NOR820	Schall-Ex L-8/30 WS
Article No. 1-946	Article No. 1-131	Article No. 1-1000

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