



## MORALT FIRESOUND DOOR BLANKS

- LAMINESSE FireSound 44
- LAMINESSE FireSound 54
- LAMINESSE FireSound 59

Having undertaken comprehensive fire and acoustic testing, Moralt offers an impressive range of performance. Moralt's LAMINESSE FireSound-sandwich panels are available in multiple formats, standard as well as individual sizes. They provide you with all the options to produce functional door assemblies of excellent quality with highest flexibility and a great diversity in shape and style.



- Fully test fire performance
- For FD30, FD60 and NFR internal doorsets
- Scope to produce large leaf sizes
- FSC Chain of Custody certified
- Acoustic evidence supporting performance up to 44dB
- Stable, engineered board construction
- Unlipped blanks ready for processing



### PERFORMANCE SUMMARY

	Core			Thickness (mm)				Fire				App.		Max dB (RW)	PAS24 Security	Thermal Range	Certification			COC		Perimeter Framing	Recessed Panels	SCAN HERE	
	Particleboard	Solid Timber	Specialist	35	44	54	59	FD30	FD60	FD90	FD120	Internal	External				Q Mark	IFCC	FSC	PEFC	EUTR				DD171/BS EN 1192
FireSound 44			✓		✓			✓				✓		40			✓	✓	✓	✓	✓	E1			
FireSound 54			✓			✓		✓	✓			✓		42			✓	✓	✓	✓	✓	E1			
FireSound 59			✓				✓	✓	✓			✓		44			✓	✓	✓	✓	✓	E1			

## FIRESOUND 44

### 30 Minutes Performance - Q Mark

Config	Leaf Sizes				Seal Arrangement			Document Link
	Max Height	At Width	Max Width	At Height	Jambs	Head	M/S	
LSASD	3162	820	1220	2250	1no 20x4	1no 20x4		CNA/F14274
LSASD+OP	3062	820	1150	2250	1no 20x4	1no 20x4		CNA/F14274
ULSASD	3112	820	1175	2250	1no 20x4	1no 20x4		CNA/F14274
ULSASD+OP	3012	820	1125	2250	1no 20x4	1no 20x4		CNA/F14274
LSADD	2962	820	1100	2250	1no 20x4	1no 20x4	1no 15x4	CNA/F14274
LSADD+OP	2862	820	1050	2250	1no 20x4	1no 20x4	1no 15x4	CNA/F14274
ULSADD	2912	820	1075	2250	1no 20x4	1no 20x4	1no 15x4	CNA/F14274
ULSADD+OP	2812	820	1025	2250	1no 20x4	1no 20x4	1no15x4	CNA/F14274
DASD	3112	820	1175	2250	1no 20x4	1no 20x4		CNA/F14274
DADD	2912	820	1075	2250	1no 20x4	1no 20x4	1no 15x4	CNA/F14274
DADD+OP	2812	820	1025	2250	1no 20x4	1no 20x4	1no 15x4	CNA/F14274

### 30 Minutes Performance - IFC

Config	Leaf Sizes				Seal Arrangement			Document Link
	Max Height	At Width	Max Width	At Height	Jambs	Head	M/S	
LSASD	3113	924	1240	2481	1no 15x4	1no 15x4		PAR/14559/01
LSASD+OP	3068	910	1222	2444	1no 15x4	1no 20x4		PAR/14559/01
ULSASD	3053	906	1216	2433	1no 15x4	1no 15x4		PAR/14559/01
ULSASD+OP	3008	893	1198	2397	1no 15x4	1no 20x4		PAR/14559/01
LSADD	2813	980	1159	2456	1no 15x4	1no 15x4	1no 15x4	PAR/14559/01
LSADD+OP	2732	952	1126	2385	1no 15x4	1no 20x4	1no 15x4	PAR/14559/01
ULSADD	2785	971	1148	2432	1no 15x4	1no 15x4	1no 15x4	PAR/14559/01
ULSADD+OP	2705	943	1115	2362	1no 15x4	1no 20x4	1no 15x4	PAR/14559/01

### Acoustic Performance

Config	Acoustic Seals				Glass Type	dB(Rw) Rating
	Jambs	Head	M/S	Threshold		
Single Flush	NOR710	NOR710		NOR810		40
Single Flush	LAS1212 & LAS1011	LAS1212 & LAS1011		LAS8040		40
Single Glazed	LP1504DS & LAS1212	LP1504DS & LAS1212		LAS8001SI	15mm Pyrostop	40
Single Glazed	LAS1212 & LAS1011	LAS1212 & LAS1011		LAS8040	15mm Pyrostop	40
Pair Flush	LAS1212 & LAS1011	LAS1212 & LAS1011	2no LAS1011	LAS8040		39
Pair Flush	ST1009	ST1009	ST1504	NOR810dB+		39
Pair Flush	NOR710 & NOR720	NOR710 & NOR720	154TFW	NOR810dB+		39
Pair Glazed	LAS1212 & LAS1011	LAS1212 & LAS1011	1no LAS1011	LAS8040 S/A	15mm Pyrostop	39
Pair Glazed	LP1504DS & LAS1212	LP1504DS & LAS1212	2no LAS1011	LAS8040 S/A	15mm Pyrostop	39

The above intumescent and acoustic seal configurations are a summary of available performances only. Individual seal manufacturers may have carried out additional independent testing which they could make available to doorset providers.

## FIRESOUND 54

### 60 Minutes Performance - Q Mark

Config	Leaf Sizes				Seal Arrangement			Document Link
	Max Height	At Width	Max Width	At Height	Jambs	Head	M/S	
LSASD	2812	916	1197	2250	2no 15x4	2no 15x4		WF409922
LSASD+OP	2762	916	1147	2250	2no 15x4	2no 15x4		WF409922
ULSASD	2762	916	1172	2250	2no 15x4	2no 15x4		WF409922
ULSASD+OP	2712	916	1122	2250	2no 15x4	2no 15x4		WF409922
LSADD	2662	916	1097	2250	2no 15x4	2no 15x4	2no 15x4	WF409922
LSADD+OP	2562	916	1047	2250	2no 15x4	2no 15x4	2no 15x4	WF409922
ULSADD	2612	916	1072	2250	2no 15x4	2no 15x4	2no 15x4	WF409922
ULSADD+OP	2512	916	1022	2250	2no 15x4	2no 15x4	2no 15x4	WF409922

### 60 Minutes Performance - IFC

Config	Leaf Sizes				Seal Arrangement			Document Link
	Max Height	At Width	Max Width	At Height	Jambs	Head	M/S	
LSASD	2765	790	1023	2297	2no 15x4	2no 15x4		PAR/12519/03
ULSASD	2711	774	1004	2252	2no 15x4	2no 15x4		PAR/12519/03
LSADD	2508	836	930	2320	2no 15x4	2no 15x4	2no 15x4	PAR/12519/03
ULSADD	2484	828	921	2297	2no 15x4	2no 15x4	2no 15x4	PAR/12519/03

### Acoustic Performance

Config	Acoustic Seals				Glass Type	dB(Rw) Rating
	Jambs	Head	M/S	Threshold		
Single Flush	ST1009	ST1009		ST422		41
Single Flush	NOR710 & Intumescent Single Flipper	NOR710 & Intumescent Single Flipper		NOR810		41
Single Glazed	FAS35 + Pyroplex Triple Flipper	FAS35 + Pyroplex Triple Flipper		FAS Trident	16.8mm Optiphon	41
Pair Flush	2no LP1504DS	2no LP1504DS	2no LP1504DS	2no LAS1016 & LAS4012		42
Pair Glazed	ST1009	ST1009	154SBS	ST422GT	15mm	40

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## FIRESOUND 59

### 60 Minutes Performance - Q Mark

Config	Leaf Sizes				Seal Arrangement			Document Link
	Max Height	At Width	Max Width	At Height	Jambs	Head	M/S	
LSASD	2637	915	1086	2250	2no 15x4	2no 15x4		WF409923
ULSASD	2587	915	1061	2250	2no 15x4	2no 15x4		WF409923
LSADD	2537	915	1036	2250	2no 15x4	2no 15x4	2no 15x4	WF409923
DASD	2587	915	1061	2250	2no 15x4	2no 15x4		WF409923

See next page for continued FIRESOUND 59 specifications

60 Minutes Performance - IFC								
Config	Leaf Sizes				Seal Arrangement			Document Link
	Max Height	At Width	Max Width	At Height	Jambs	Head	M/S	
LSASD	2979	854	1172	2344	2no 15x4	2no 15x4		<a href="#">PAR/12519/03</a>
ULSASD	2921	838	1149	2299	2no 15x4	2no 15x4		<a href="#">PAR/12519/03</a>
LSADD	2702	904	1065	2382	2no 15x4	2no 15x4	2no 15x4	<a href="#">PAR/12519/03</a>
ULSADD	2675	896	1054	2358	2no 15x4	2no 15x4	2no 15x4	<a href="#">PAR/12519/03</a>

Acoustic Performance						
Config	Acoustic Seals				Glass Type	dB(Rw) Rating
	Jambs	Head	M/S	Threshold		
Single Flush	ST1009 & 104SBS	ST1009 & 104SBS		ST422GT		43
Single Flush	NOR710 & NOR720	NOR710 & NOR720		NOR810dB+		43
Single Flush	FAS35 + Pyroplex Triple Flipper	FAS35 + Pyroplex Triple Flipper		2no FAS Trident		43
Single Glazed	FAS 35	FAS 35		2no FAS Trident	16.8 Optlam	40
Pair Flush	NOR710 & NOR720	NOR710 & NOR720	154TF & NOR720	2no NOR810dB+		44
Pair Glazed	2no LP1504DS	2no LP1504DS	2no LP1504DS	2no LAS1016 & LAS4012	23mm Pyrostop	41
Pair Glazed	ST1009 & 154SBS	ST1009 & 154SBS	154SBS	ST422GT	15mm	41
Pair Glazed	NOR710 & NOR720	NOR710 & NOR720	154TF & NOR720	2no NOR810dB+	15mm Pyrostop	41

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