

### Door leaf:

Massive leaf with special design for maximum sound reduction.

### Frame:

Frame in pine as standard but can be delivered in many kinds of wood.

### Weight:

Door, about 45kg/m<sup>2</sup>.

Door fire classed, approximately 55kg/m<sup>2</sup>.

### Locks:

Delivered as standard with ASSA 565/410, but can be delivered with almost any type of locks. A=104, B=21.

### Options:

Electric locks, magnetic contacts, electric strikes, cable entry, cylinders, clamp protection.

### Designation:

Single door TLE (Rw47), Double door TLD (Rw47). Single door TLE-48 (Rw48), Double door TLD-48 (Rw48).

Type of thresholds see below

### Window:

The doors can be delivered with windows with the same acoustic performance as the doors.



### Door closer:

Door closer may only be installed on the hinge side. ASSA DC300 or GEZE TS4000 is standard. But can be delivered with other closers too.

### Emergency exit:

The door can be delivered with panic bars or handle type Assa 179B

### Fire doors:

The doors can be delivered classified to EI<sub>2</sub>30, S<sub>a</sub>, S<sub>200</sub> Max size for single door 12\*23M, Double door 22\*23M

### Surface door leaf:

Standard is painted white color (NCS S 0502-Y) but it can be painted in almost any NCS or RAL color. Different types of plastic laminates and veneers are also possible.

### Installation:

Instructions for installation can be provided.

	TLE	TLD	TLE-48	TLD-48
<b>Size WxH (Opening in wall)</b>	7x21M-11x23M	13x21M-22x23M	7x21M-11x24M	13x21M-22x24M
Outside frame	W-10mm H-10mm	W-10mm H-10mm	W-10mm H-10mm	W-10mm H-10mm
Depth frame	125mm	125mm	120mm	120mm
Door leaf T=	104mm	104mm	106,5mm	106,5mm
Free opening with door leaf opened 90°. Std threshold	W -219mm H-100mm	W -314mm H-100mm	W -213mm H-90mm	W -306mm H-90mm
Free opening with door leaf opened 180°. Std threshold	W -130mm H-100mm	W -130mm H-100mm	W -120mm H-90mm	W -120mm H-90mm
Standard locks	ASSA 565	ASSA 565 / Flush bolt	ASSA 410	ASSA 410 / Flush bolt
Noise reduction	Rw 47 dB	Rw 47 dB	Rw 48 dB	Rw 48 dB

**Single door TLE (Rw 47 dB). Free opening (width) when door leaf is opened 90 or 180 degrees.**

Module (Opening in wall)	Measurement outside frame	Free opening with door leaf opened 90°	Free opening with door leaf opened 180°
7M (700mm)	690	481	576
8M (800 mm)	790	581	676
9M (900 mm)	890	681	776
10M (1000 mm)	990	781	876
11M (1100 mm)	1090	881	976
12M (1200 mm)	1190	981	1076
13M (1300 mm)	1290	1081	1176

**Double door TLD (Rw 47 dB). Free opening (width) when door leaves are opened 90 or 180 degrees.**

Module (Opening in wall)	Measurement outside frame	Free opening with door leaf opened 90°	Free opening with door leaf opened 180°
13M (1290 mm)	1290	986	1176
14M (1390 mm)	1390	1086	1276
15M (1490 mm)	1490	1186	1376
16M (1590 mm)	1590	1286	1476
17M (1690 mm)	1690	1386	1576
18M (1790 mm)	1790	1486	1676
19M (1890 mm)	1890	1586	1776
20M (1990 mm)	1990	1686	1876
21M (2090 mm)	2090	1786	1976
22M (2190 mm)	2190	1886	2076

**Example:**

**Double door (TLD). Free opening when only active door leaf is opened, and this door leaf is module 11M**

Free opening with door leaf opened 90°

= 1090-216mm=874 mm

Free opening with door leaf opened 180°

= 1090-114mm=976 mm

**Single door TLE-48 (Rw 48 dB). Free opening (width) when door leaf is opened 90 or 180 degrees.**

Module (Opening in wall)	Measurement outside frame	Free opening with door leaf opened 90°	Free opening with door leaf opened 180°
7M	690	487	580
8M	790	587	680
9M	890	687	780
10M	990	787	880
11M	1090	887	980
12M	1190	987	1080

**Double door TLD-48 (Rw 48 dB). Free opening (width) when door leaf is opened 90 or 180 degrees.**

Module (Opening in wall)	Measurement outside frame	Free opening with door leaf opened 90°	Free opening with door leaf opened 180°
13M	1290	994	1180
14M	1390	1094	1280
15M	1490	1194	1380
16M	1590	1294	1480
17M	1690	1394	1580
18M	1790	1494	1680
19M	1890	1594	1780
20M	1990	1694	1880
21M	2090	1794	1980
22M	2190	1894	2080
23M	2290	1994	2180

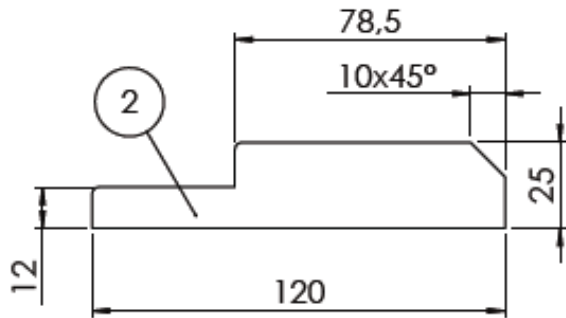
**Example:**

**Double door (TLD-48). Free opening when only active door leaf is opened, and this door leaf is module 11M**

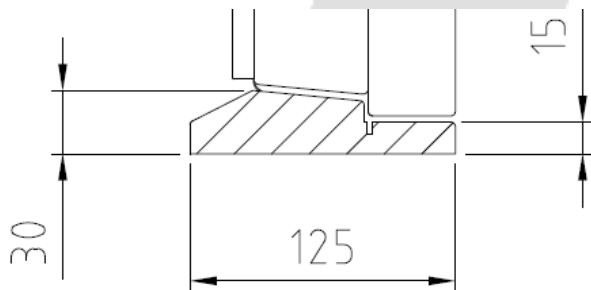
Free opening with door leaf opened 90°  
= 1090-210mm=880 mm

Free opening with door leaf opened 180°  
= 1090-110mm=980 mm

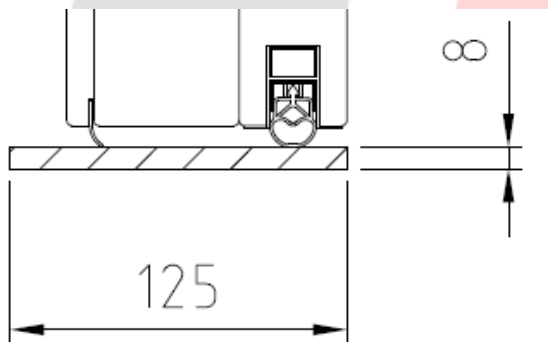
### Types of thresholds:



Oak threshold for door TLE-48/TLD-48,  $R_w$  48 dB.



Oak threshold for door, TLE/TLD,  $R_w$  47 dB.



Mechanical threshold (Can be delivered with or without an oak disc)  
To all our wooden doors and provides acoustic performance  $R_w$  49 dB.

Pictures of installed doors:





