

Installation Guide

Self-supporting Head Single & Double Doors

ENIG-3002-01

COMPONENTS

Modified September 2021 | Revision 004

ORDERING KIT CODES

I-Beam	Use with
SSH-8	E10
SSH-7	E11
SSH-6	E20
SSH-5	E22
SSH-4	E30
SSH-3	E33
SSH-2	E10 DD
SSH-1	E11 DD
SSH-2	E20 DD
SSH-1	E22 DD



Self-supporting I-Beam

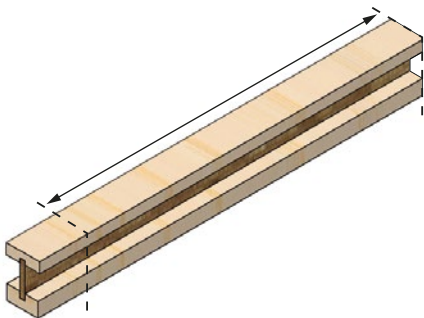


Self-supporting Stud

IMPORTANT Follow standard Enigma Frame Installation Instructions to construct your studwork, however - Please note:

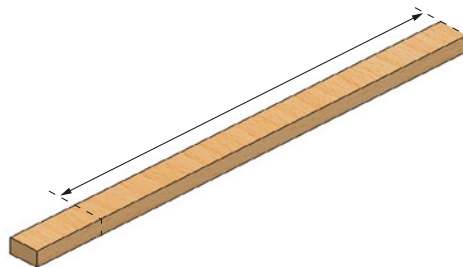
Studwork opening **width** must be **+94mm** (to allow for studs)

Studwork opening **height** must be **+220mm** (to allow for Self-Supporting I-Beam)



1. Cut 'I-Beam' to width

Cut down the **Self-Supporting I-Beam** to the structural opening width **calculated above**.



2. Cut 'Studs' to height

Cut down both **Self Supporting Studs** to the structural opening **height -220mm** (to allow for I-Beam)



3. Prepare 'I-Beam'

Pilot drill clearance holes in the **Self Supporting I-Beam** at each end. (x8 in total)



4. Prepare 'I-Beam'

Screw fix the **Self Supporting I-Beam** to the **Self Supporting Studs** using the No.10 x 100mm Screws provided.



5. Install assembly

Fix the **Self Supporting Studs** to the surrounding studwork using appropriate fixings.

IMPORTANT Service holes **MUST NOT BE CUT** in the joist flange

I-Beam Modification for Services

Circular, Square and Rectangular Holes

The maximum size of a service hole that can be cut in the web of a I-Beam at a particular location depends on the specific load configuration on the joist. The table below gives the **minimum required distance, L (mm), from inside face of support to nearest edge of hole** for uniformly loaded, simply supported joists under standard domestic loading of 0.75kN/m² dead load and 1.5kN/m² imposed load at up to 600mm centres.

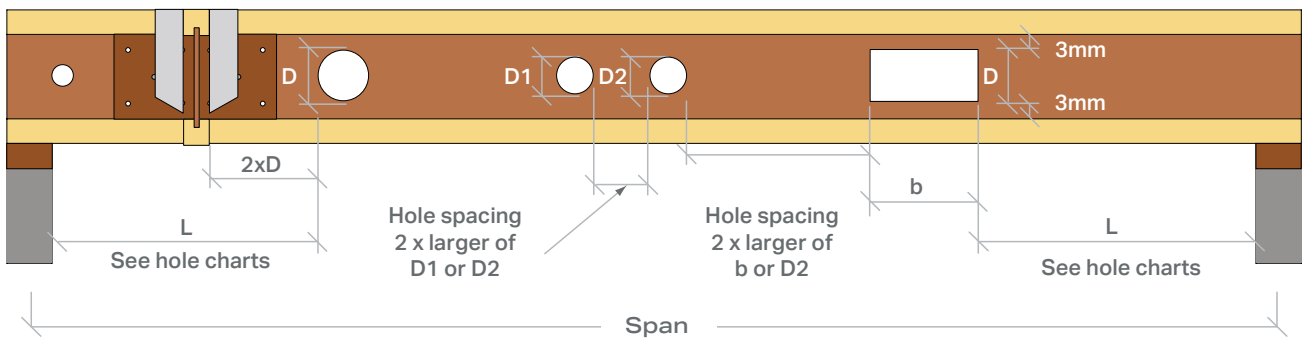
Joist Depth (mm)	Joist Span (mm)	Minimum Required Distance Domestic Applications (Inside face of Support to nearest edge of Hole)													
		50mm		75mm		100mm		125mm		150mm		175mm		200mm	
		●+■	■	●+■	■	●+■	■	●+■	■	●+■	■	●+■	■	●+■	■
220	3000	300	300	361	656	721	838	838	1159						
	3500	300	300	500	824	895	1024	1024	1375						
	4000	300	300	651	1001	1078	1216	1216	1596						
	4500	300	449	813	1186	1268	1415	1415	1819						
	4890	300	566	945	1334	1420	1574	1574	1996						
235	3000	300	300	300	566	656	873	873	1217						
	3500	300	300	325	725	824	1062	1062	1440						
	4000	300	300	463	894	1000	1258	1258	1665						
	4500	300	300	612	1072	1185	1460	1460	1893						
	5066	300	382	794	1282	1402	1693	1693	2154						
245	3000	300	300	300	482	586	865	865	1252	955	1252				
	3500	300	300	300	632	747	1053	1053	1478	1152	1478				
	4000	300	300	300	794	918	1248	1248	1706	1355	1706				
	4500	300	300	457	965	1097	1449	1449	1937	1563	1937				
	5184	300	300	666	1212	1353	1731	1731	2256	1854	2256				
300	4000	300	300	300	300	300	803	803	1308	1230	1542	1477	1883	1572	1883
	4500	300	300	300	300	300	975	975	1513	1430	1762	1693	2126	1795	2126
	5000	300	300	300	300	449	1154	1154	1722	1635	1985	1912	2369	2019	2369
	5500	300	300	300	535	670	1341	1341	1935	1844	2210	2135	2613	2247	2613
	5803	300	300	300	687	822	1456	1456	2066	1972	2348	2271	2761	2385	2761

1. Calculated for joists in intermediate domestic floors (Gk=0.75kN/m²,qk=1.5kN/m²,Qk=2kN) at 600mm centres.
2. Where more than one hole is to be cut, the min. spacing between holes must be 2 times the width of the largest hole.
3. The rectangular hole width b should not exceed 1.5xD.

4. Cut all holes carefully, do not overcut and do not cut flanges.
5. Where holes are required in rim and header joists of timber frame construction refer to the building designer.
6. Plastic plumbing is ideal with I-Beam joists. Where copper plumbing is to be used, careful consideration of the sequence of pipe installation is required.

7. The bearing support length used for this table is 45mm.
8. A 35mm hole may be drilled anywhere on the centre line of the web material provided there is a minimum of 35mm from the edge of the hole to the end of the joist and it is not directly over a support

I-Beam Modification Diagram



Alternative Solutions Reinforcing Plates

For guidance on using reinforcing plates for large and highly loaded applications please contact Selco:

020 3880 0339



Complete your installation using the **instruction manual** supplied with your Enigma Sliding Pocket Door kit.

Installation guides are available to download from our website:

www.enigmapocketdoors.com



Scan code for
install guides



For help and advice with your installation contact our experienced team:

020 3880 0339

Email sales@enigmapocketdoors.com