June 2016 Update Pack

Dear Colleague,

Thank you for subscribing to receive updates to the Part E Robust Details Handbook.

The popularity and take-up of the online (or electronic) Handbook continues to increase – so much so, that it is no longer viable for us to produce and distribute the hardcopy updates, so this pack will be the last. However, for those still wishing to use the physical Handbook, we will be publishing a free PDF version of all future update packs on our website for you to print off and maintain your up-to-date Handbook. Consequently, the Update Subscription service will also cease at the end of this subscription year (31 August 2016).

In this update pack, we are pleased to include a further new wall type, **E-WM-29**. This uses Porotherm clay blocks with a minimum 75mm fully-filled cavity; Ecoparge and gypsum board finish. This wall has demonstrated consistent performance at 3 dB improvement on Building Regulations. Please see the ratings tables on our website.

Additionally, E-WT-1 is now approved to include full-fill cavity insulation, which means the zero U-value can be achieved without having to apply sheathing that is not structurally necessary. However, this has resulted in the wall now receiving 1 credit (instead of 3) should any new plots be constructed in this way and registered for the Code for Sustainable Homes.

And on a similar theme, URSA Cavity Batt 35 has successfully completed assessment, and can now be used as an alternative cavity insulation for E-WM-22.

Please update your April 2016, 4th Edition Handbook as follows:

- 1. Remove and replace all pages of the Introduction.
- 2. Remove and replace all pages of E-WM-22.
- 3. Insert the new Robust Detail E-WM-29 to the end of the Separating Walls, Masonry section.
- 4. Remove and replace just the first leaf (pages 1 & 2) of E-WT-1.
- 5. Remove and replace just the first leaf (pages 1 & 2) of E-FT-6.

Yours sincerely

John Tebbit Chief Executive, Robust Details Limited





Changes to the fourth edition following June 2016 update

Section	Page	Amendment

Introduction

Table 1	3	New Robust Detail separating wall E-WM-29 added.
Table 3a	6	New Robust Detail separating wall E-WM-29 added.
Table 4	8	New Robust Detail separating wall E-WM-29 added.
Table 6a	9	New Robust Detail separating wall

e 6a 9 New Robust Detail separating wall E-WM-29 added.

Separating Wall – Masonry

E-WM-22

Second bullet point	1	URSA Cavity Batt 35 added as an option.
Diagrams 1-8	2-5	URSA Cavity Batt 35 added as an option.
Check point 8	6	URSA Cavity Batt 35 added as an option.
E-WM-29		
All	1-6	New Robust Detail separating wall

1-0	
	added – Porotherm clay blockwork
	(Ecoparge and gypsum-based
	board) with 75mm minimum cavity.

Separating Wall – Timber

E-WT-1

First bullet point	1	"Without sheathing" changed to "Partial or no sheathing".
Cavity insulation	1	Optional cavity insulation specification added.

Separating Floor – Timber

E-FT-6	
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Joist type box	1	This previously referenced E-FT-3.
		Now corrected to E-FT-6.

This Handbook contains the separating wall and separating floor constructions that have achieved the status of Robust Details for Part E of the Building Regulations (England and Wales) and Part G of the Building Regulations (Northern Ireland), "Resistance to the passage of sound".

The Robust Details have undergone an extensive sound insulation testing regime, robust design analysis and independent audit and have satisfied the Robust Details Limited Management Board that they should provide a level of sound insulation compliant with Part E (England and Wales) and Part G (Northern Ireland).

The use of the **robust**details[®] scheme provides an alternative to pre-completion testing for demonstrating compliance with the performance standards for new build dwellings. Every dwelling built using the **robust**details[®] scheme needs to be registered with Robust Details Limited and a plot registration fee paid. Further information on the scheme (including how to apply for new Robust Details) is available on the Robust Details Limited web site at:

www.robustdetails.com

or from:

Robust Details Limited Block E Bletchley Park Science and Innovation Centre Milton Keynes Buckinghamshire MK3 6EB Telephone: 03300 882140 - Technical 03300 882141 - General Fax: 01908 363433 Each Robust Detail includes materials and construction details for the separating wall/floor and its key interfaces with other elements and should be read in conjunction with Appendix A. The final page of each Robust Detail is a checklist, which should be photocopied and used by the site manager/supervisor to confirm that the separating wall/floor has been built correctly. The building control body may ask to see the checklist.

It is important that separating walls/floors and their associated junctions and flanking conditions are constructed entirely in accordance with the relevant Robust Detail; otherwise the building control body may require pre-completion testing to be carried out.

The tables on pages 5, 6 and 7 show which robust details[®] separating floors and walls can be used in flats/apartments.

Note:

The contents of this Handbook relate only to compliance with specific aspects of Part E (England and Wales) and Part G (Northern Ireland). Building work will also have to comply with all other relevant legislation and Parts of the Building Regulations.

Where sound testing is required on a wall or floor, the user should seek expert acoustic advice prior to construction commencing.

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Introduction

Special note for Robust Details constructed in Northern Ireland

Members of an expert panel convened to advise NI Government on the subject, consider that the following Robust Details will integrate most readily with NI standards and methods of construction.

Other Robust Details may be suitable for use in NI, however, it is recommended that Building Control be consulted to ensure full compatibility with other NI Regulations and Standards.

Masonry walls	E-WM-1	Concrete floors	E-FC-1
	E-WM-2	_	E-FC-2
	E-WM-3	_	E-FC-4
	E-WM-4		E-FC-5
	E-WM-11		E-FC-6
	E-WM-16	_	E-FC-8
	E-WM-18	_	E-FC-9
	E-WM-19		E-FC-10
	E-WM-21		E-FC-1
		_	E-FC-12
			E-FC-1
		_	E-FC-14
Timber walls	E-WT-1	_	
	E-WT-2	_	
	E-WT-4	_	
Timber floors	F-FT-1	_	

Timber floors	E-FT-1
	E-FT-2
	E-FT-3
	E-FT-5
	E-FT-6

Steel floors

E-FS-1

Note:

Refer to Tables 3a, 3b and 3c in the Introduction for valid combinations of the Robust Details walls and floors.

List of Robust Details

Table 1 – Separating walls

E-WM-1	masonry – dense aggregate blockwork (wet plaster)
E-WM-2	masonry – lightweight aggregate blockwork (wet plaster)
E-WM-3	masonry – dense aggregate blockwork (render and gypsum-based board)
E-WM-4	masonry - lightweight aggregate blockwork (render and gypsum-based board)
E-WM-5	masonry – Besblock "Star Performer" cellular blockwork (render and gypsum-based board)
E-WM-6	masonry - aircrete blockwork (render and gypsum-based board)
E-WM-7	Suspended from further registrations
E-WM-8	masonry – lightweight aggregate blockwork Saint Gobain – Isover RD35 (gypsum-based board)
E-WM-9	masonry – solid dense aggregate blockwork (render and gypsum-based board)
E-WM-10	masonry - aircrete thin joint blockwork with specified wall ties (render and gypsum-based board finish
E-WM-11	masonry – lightweight aggregate blockwork (render and gypsum-based board) with 100mm minimum cavity
E-WM-12	masonry - Plasmor "Aglite Ultima" lightweight aggregate blockwork (render and gypsum-based board
E-WM-13	masonry - aircrete thin joint - untied blockwork (render and gypsum-based board)
E-WM-14	masonry – lightweight aggregate blockwork Saint Gobain - Isover RD35 (gypsum-based board) with 100mm minimum cavity
E-WM-15	masonry – aircrete blockwork Saint Gobain - Isover RD35 (gypsum-based board)
E-WM-16	masonry - dense aggregate blockwork (render and gypsum-based board) with 100mm minimum cavit
E-WM-17	masonry – lightweight aggregate blockwork Saint Gobain-Isover RD Party Wall Roll (gypsum-based board)
E-WM-18	masonry - dense aggregate blockwork (wet plaster) with 100mm minimum cavity
E-WM-19	masonry – dense or lightweight aggregate blockwork (render and gypsum-based board) with 100mm minimum cavity and MONARFLOOR® BRIDGESTOP® system
E-WM-20	masonry – lightweight aggregate blockwork Saint Gobain - Isover RD Party Wall Roll (gypsum-based board) with 100mm minimum cavity
E-WM-21	masonry - lightweight aggregate blockwork (wet plaster) with 100mm minimum cavity
E-WM-22	masonry – lightweight aggregate blockwork Knauf Earthwool Masonry Party Wall Slab or Superglass Party Wall Roll (gypsum-based board) with 100mm minimum cavity
E-WM-23	masonry – aircrete blockwork Superglass Party Wall Roll (gypsum-based board) with 100mm minimun cavity
E-WM-24	masonry – aircrete blockwork Saint Gobain-Isover RD Party Wall Roll (gypsum-based board) with 100mm minimum cavity
E-WM-25	masonry – Porotherm clay blockwork (Ecoparge and gypsum-based board) with 100mm minimum insulated cavity
E-WM-26	masonry – Besblock "Star Performer" cellular blockwork (gypsum-based board) with 100mm minimun insulated cavity
E-WM-27	masonry - lightweight aggregate blockwork Superglass Party Wall Roll (gypsum-based board) with minimum 75mm cavity
E-WM-28	masonry - lightweight aggregate blockwork Knauf Party Wall Wool (gypsum-based board) with minimum 100mm cavity
E-WM-29	masonry - Porotherm clay blockwork (Ecoparge and gypsum-based board) with 75mm minimum insulated cavity

See over for timber and steel frame walls

Introduction

List of Robust Details

Table 1 (continued) – Separating walls

E-WT-1	timber frame – without sheathing board
E-WT-2	timber frame - with sheathing board
E-WT-3	timber frame – Elecoframe prefabricated panels
E-WT-4	timber frame – Excel Industries Warmcell 500 insulation - with sheathing board
E-WS-1	steel frame – twin metal frame
E-WS-2	steel frame – British Gypsum Gypwall QUIET IWL
E-WS-3	steel frame – modular steel frame housing
E-WS-4	steel frame – twin metal frame - 250mm between linings

List of Robust Details

Table 2 – Separating floors

E-FC-1	precast concrete plank with directly applied screed and floating floor treatment
E-FC-2	in-situ concrete slab and floating floor treatment
E-FC-3	Suspended from further registrations
E-FC-4	precast concrete plank and Thermal Economics IsoRubber system and floating screed
E-FC-5	precast concrete plank and Cellecta Yelofon HD10+ system and floating screed
E-FC-6	beam and block with concrete topping Regupol E48 system and floating screed
E-FC-7	beam and block with concrete topping and floating floor treatment
E-FC-8	precast concrete plank with floating screed and bonded resilient floor covering
E-FC-9	precast concrete plank with directly applied screed and Thermal Economics IsoRubber top bonded resilient floor covering
E-FC-10	in-situ concrete slab with Thermal Economics IsoRubber top bonded resilient floor covering
E-FC-11	precast concrete plank and Icopal-MONARFLOOR® Tranquilt and floating screed
E-FC-12	precast concrete plank and Thermal Economics IsoRubber Base HP3 system and floating screed
E-FC-13	precast concrete plank and InstaCoustic InstaLay 65 system and floating screed
E-FC-14	precast concrete plank and Thermal Economics IsoRubber Code layer and floating screed
E-FC-15	precast concrete plank and Regupol Quietlay layer and floating screed
E-FC-16	precast concrete plank with directly applied screed and Thermal Economics IsoRubber CC3 bonded resilient floor covering
E-FC-17	precast concrete plank and Cellecta YELOfon [®] HD10+ system and floating screed and Cellecta ULTR. ceiling treatment
E-FT-1	timber I-joists and floating floor treatment
E-FT-2	timber solid joists and floating floor treatment
E-FT-3	MiTek Posi-Joist, Prestoplan PresWeb, WOLF easi-joist, ITW Gang-Nail Ecojoist or ITW Alpine SpaceJois metal web timber joist and floating floor treatment
E-FT-4	timber Finnjoists with Finnforest Acoustic layer and Gyvlon screed
E-FT-5	Cellecta ScreedBoard [®] 28 system on timber I-joists
E-FT-6	Cellecta ScreedBoard [®] 28 system on metal web joists
E-FT-7	timber I-joists and FFT80 floating floor treatment
E-FT-8	timber solid joists and FFT80 floating floor treatment
E-FS-1	steel deck and in-situ concrete and floating floor treatment
E-FS-2	UltraBEAM metal joists and floating floor treatment
E-FS-3	Cellecta ScreedBoard [®] 28 system on metal joists

Introduction

Table 3a – Combinations of Robust Details separating walls and floors for flats/apartments in **loadbearing masonry** constructions

		Separating floors					
		E-FC-1	E-FC-14				
		E-FC-11	E-FC-15				E-FC-8
Separa	ting walls	E-FC-12	E-FC-16			E-FC-6	E-FC -9
		E-FC-13	E-FC-17	E-FC-4	E-FC-5	E-FC-7	E-FC-10
E-WM-1	E-WM-16		/	~	~	V	~
E-WM-3	E-WM-18		, 	•	•	•	•
E-WM-2	E-WM-20						
E-WM-4	E-WM-21						
E-WM-5	E-WM-26		/	~	~	F	~
E-WM-8	E-WM-27			•	•		, The second sec
E-WM-11	E-WM-28						
E-WM-14							
E-WM-6	E-WM-15						
E-WM-10	E-WM-23		F	~	✓ see note 1	F	V
E-WM-13	E-WM-24						
	E-WM-12	1	F	~	F	F	F
E-WM-17	E-WM-22	🖌 see	e note 2	~	✓ see note 2	F	✓ see note 2
E-WM-25	E-WM-29	1	F	F	F	F	F

Key

F Only the separating floor requires pre-completion sound testing.

1 Where this combination is selected, 200mm (min) thick precast concrete planks and ceiling treatment CT5 must be used.

2 This combination can only be selected where the construction does not include Plasmor Aglite Ultima blocks (1050 kg/m³).

Combining robustdetails® loadbearing masonry walls and floors with robustdetails® lightweight framed separating walls

Upper storeys of blocks of flats may be constructed using lightweight steel or timber frame, where the lower storeys are loadbearing masonry.

The lightweight separating walls built directly off the uppermost concrete separating floors may be registered as Robust Details provided:
 the lightweight walls are in vertical alignment with the masonry walls below, such that they can follow the principles of the ground floor junction shown for the relevant robustdetails[®] separating wall;

- the external (flanking) wall construction above the separating floor meets the requirements on page 2 of the relevant robustdetails[®] separating wall, and has 2 layers of gypsum-based board;
- the junction between the bottom rail (or sole plate) is well sealed;

- all other relevant requirements in the Handbook are strictly followed.

- The separating floor may be registered as a Robust Detail provided:
- the floor is constructed in accordance with the requirements of the published Detail;
- the external (flanking) wall below the precast concrete floor satisfies the requirements of detail 1 on page 2 of the relevant robustdetails® separating floor;
- all other relevant requirements in the Handbook are strictly followed.

Table 3b – Combinations of Robust Details separating walls and floors for flats/apartments in timber frame constructions

	Separati	ng floors
	E-FT-1	
	E-FT-2	
	E-FT-3	
	E-FT-4	
Separating walls	E-FT-5	
	E-FT-6	
	E-FT-7	E-FC-2
	E-FT-8	E-FS-1
E-WT-1	~	W see note 1
E-WT-2	 ✓ 	W see note 1
E-WT-3	F	W see note 1
E-WT-4	F	W see note 1

Table 3c – Combinations of Robust Details separating walls and floors for flats/apartments in reinforced concrete and steel frame constructions

	Separating floors					
Separating walls	E-FC-2	E-FC-10	E-FS-1	E-FS-2	E-FS-3	
E-WS-1	W see note 1	W	W see note 1	~	~	
E-WS-2	~	W	W	W	W	
E-WS-3	W	W	W	W	W	
E-WS-4	W see note 1	W	W see note 1	~	~	

Key for Table 3b and Table 3c

F Only the separating floor requires pre-completion sound testing.

W Only the separating wall requires pre-completion sound testing.

- 1 Lightweight steel and timber frame walls may be constructed above in-situ poured concrete floors. The lightweight walls built directly off the concrete floors may be registered as Robust Details provided:
- they meet all other requirements of the Robust Detail, including flanking constructions;

the principles of the raft foundation junction are followed. As such, the concrete of the floor must have a mass of 365 kg/m² (min), and a floating floor treatment must be provided;

Walls constructed to the soffit of in-situ poured concrete floors cannot be registered as Robust Details and may be subject to pre-completion sound testing.

See also notes relating to Combining loadbearing masonry and lightweight framed separating walls included under Table 3a.

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Table 4 – Combining Robust Details separating walls with non-Robust Details separating floors in flats/apartments

asonry	
F1	E-WM-21
F1	E-WM-22
F1	E-WM-23
F1	E-WM-24
F1	E-WM-25
F1	E-WM-26
F1	E-WM-27
F1	E-WM-28
F1	E-WM-29
F1	
	F1 F1

Table 5 – Combining Robust Details separating floors with non-Robust Details separating walls in flats/apartments

Loadbearing	masonry		
E-FC-1	W1	E-FC-11	W1
E-FC-4	W2	E-FC-12	W1
E-FC-5	W2	E-FC-13	W1
E-FC-6	W1	E-FC-14	W1
E-FC-7	W1	E-FC-15	W1
E-FC-8	W2	E-FC-16	W1
E-FC-9	W2	E-FC-17	W1
E-FC-10	W2		

Timber fram	е	RC frame	
E-FT-1	W 3	E-FC-2	W4
E-FT-2	W3	E-FC-10	W4
E-FT-3	W3		
E-FT-4	W3		
	14/0	Light steel fra	ame
E-FT-5	W3	g etee	
E-F1-5 E-FT-6	W3	E-FS-1	W4

Timber frame Light steel frame E-WT-1 **F2** E-WS-1 F3 E-WT-2 **F2** E-WS-2 **F4** E-WT-3 E-WS-3 **F2 F3** E-WT-4 **F2** E-WS-4 F3

Key

- F1 Only the separating floor requires pre-completion testing provided the floor does not bridge the separating wall cavity. Otherwise both the wall and floor need testing.
- F2 Only the separating floor requires pre-completion testing provided the floor is timber-based and does not bridge the separating wall cavity. Otherwise both the wall and floor need testing.
- **F3** Only the separating floor requires pre-completion testing provided the wall is being used in a lightweight steel frame flat/apartment and the floor does not bridge the separating wall cavity. Otherwise both the wall and floor need testing.
- F4 Only the separating floor requires pre-completion testing provided the wall is being used in a concrete frame building and the base of the wall is shielded by a floating floor treatment. Otherwise both the wall and floor need testing.

Key

F1 F1 F1 F1 F1 F1 F1 F1 F1 F1

- W1 Only the separating wall requires pre-completion testing provided the wall is constructed using aggregate blocks specified for the inner leaf in the floor Robust Detail. Otherwise both the floor and wall need testing.
- W2 Only the separating wall requires pre-completion testing provided the wall is constructed using blocks specified for the inner leaf in the floor Robust Detail. Otherwise both the floor and wall need testing.
- **W3** Only the separating wall requires pre-completion testing if used with timber frame supporting walls and twin leaf timber frame separating walls. Otherwise both the floor and wall need testing.
- W4 Only the separating wall requires pre-completion testing provided the external wall meets the specification given in the separating floor Robust Detail. Otherwise both the floor and wall need testing.
- W5 Only the separating wall requires pre-completion testing if used with steel frame supporting walls and twin leaf steel frame separating walls. Otherwise both the floor and wall need testing.

For any construction that requires a separating element to be tested, the user should seek expert acoustic advice on the design and potential acoustic performance.

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		BRIDGESTOP [®] system	Smartroof system	Kingspan TEK	Prestoplan PresPeak 60	Wall Cap RDA2	RoofSpace I-Roof	Space4 system
Masonry	E-WM-1	~				~		
walls	E-WM-2	v				~		
	E-WM-3	v	~			~	v	
	E-WM-4	v	~			~	v	
	E-WM-5	~	v			~	v	
	E-WM-6		~			~	v	
	E-WM-8	~	~			~	v	
	E-WM-9							
	E-WM-10		~			~	~	
	E-WM-11	~	~			~	~	
	E-WM-12	~	~			~	v	
	E-WM-13		~			~	v	
	E-WM-14	~	v			~	v	
	E-WM-15		~			~	✓	
	E-WM-16	~	~			~	v	
	E-WM-17	~	~			~	v	
	E-WM-18	~				~		
	E-WM-19	see note 1						
	E-WM-20	~	~			~	v	
	E-WM-21	~				~		
	E-WM-22	~	v			~	v	
	E-WM-23	see note 1	~			~	v	
	E-WM-24	see note 1	~			~	v	
	E-WM-25					~		
	E-WM-26	~	~			~	~	~
	E-WM-27	~	~			~	~	
	E-WM-28	~	~			~	~	
	E-WM-29					~		

Table 6a - Robust Detail separating walls which can be used together with the proprietary flanking constructions contained in Appendix A2

Key

When constructing these walls off raft foundations, the raft must have insitu concrete with 150mm minimum thickness.

See over for timber and steel frame walls

Introduction

Table 6a (continued) – Robust Detail separating walls which can be used togetherwith the proprietary flanking constructions contained in Appendix A2

		BRIDGESTOP [®] system	Smartroof system	Kingspan TEK	Prestoplan PresPeak 60	Wall Cap RDA2	RoofSpace I-Roof	Space4 system
Timber	E-WT-1		~	~	v	~	~	
walls	E-WT-2		v	~	v	~	v	~
	E-WT-3		~			~	v	
	E-WT-4		~			~	v	
Steel	E-WS-1					~		
walls	E-WS-2							
	E-WS-3							
	E-WS-4					~		

Introduction

Table 6b – Robust Detail separating floors which can be used together with the proprietary flanking constructions contained in Appendix A2

		BRIDGESTOP [®] system	Smartroof system	Kingspan TEK	Prestoplan PresPeak 60	Wall Cap RDA2	RoofSpace I-Roof	Space4 system
Masonry	E-FC-1					~		
floors	E-FC-2							
	E-FC-4					~		
	E-FC-5					~		
	E-FC-6					~		
	E-FC-7					~		
	E-FC-8					~		
	E-FC-9					~		
	E-FC-10					✓see note 1		
	E-FC-11					~		
	E-FC-12					~		
	E-FC-13					~		
	E-FC-14					~		
	E-FC-15					~		
	E-FC-16					~		
	E-FC-17					~		
Timber	E-FT-1					~		
floors	E-FT-2					~		
	E-FT-3					~		
	E-FT-4					~		
	E-FT-5					~		
	E-FT-6					~		
	E-FT-7					~		
	E-FT-8					~		
Steel-concrete	E-FS-1							
and steel floors	E-FS-2					~		
	E-FS-3					~		

Key

1 Applies only to loadbearing masonry constructions.

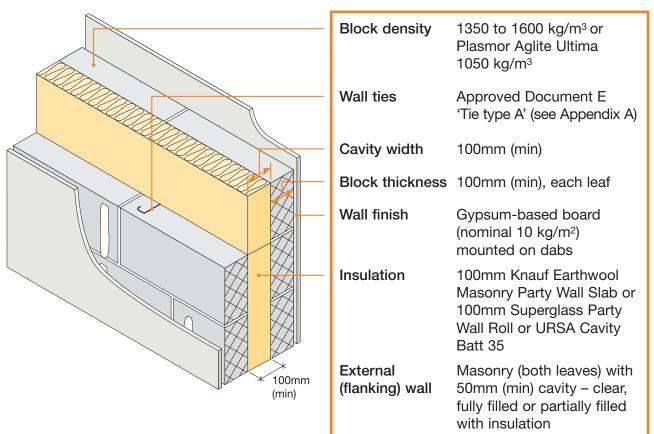
Table 7 – Robust Detail separating floors which can be used together with alternative products contained in Appendix A3

		British Gypsum GypFloor	Insumate insulation tray
Concrete	E-FC-1	~	
floors	E-FC-2	~	
	E-FC-4		
	E-FC-5		
	E-FC-6		
	E-FC-7	~	
	E-FC-8		
	E-FC-9		
	E-FC-10		
	E-FC-11		
	E-FC-12		
	E-FC-13		
	E-FC-14		
	E-FC-15		
	E-FC-16		
	E-FC-17		
Timber	E-FT-1		v
floors	E-FT-2		v
	E-FT-3		v
	E-FT-4		
	E-FT-5		
	E-FT-6		
	E-FT-7		v
	E-FT-8		v
Steel-concrete	E-FS-1	~	
and steel floors	E-FS-2		
	E-FS-3		

Separating Wall – Cavity Masonry

E-WM-22

- Lightweight aggregate blocks
- Knauf Earthwool Masonry Party Wall Slab or Superglass Party Wall Roll or URSA Cavity Batt 35
 - Gypsum-based board (nominal 10 kg/m²) on dabs ■

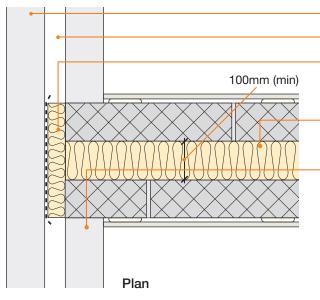


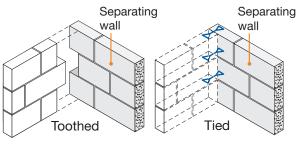
DO

- Keep cavity, insulation rolls and wall ties free from mortar droppings and debris
- Fully fill all blockwork joints with mortar
- Make sure there is no connection between the two leaves except for wall ties, insulation and foundation
- Ensure that only solid blocks (i.e. not hollow or cellular) are used in the construction of separating and flanking walls
- Ensure all 100mm Knauf Earthwool Masonry Party Wall Slabs or 100mm Superglass Party Wall Rolls or URSA Cavity Batt 35 slabs are tightly butted together and half cuts are made with a clean sharp knife and are installed in accordance with the manufacturer's instructions

- Keep any chases for services to a minimum and fill well with mortar.
 Stagger chases on each side of the wall to avoid them being back to back
- Refer to Appendix A
- Ensure that either 'KI MPWS' is printed on the insulation material where 100mm Knauf Earthwool Masonry Party Wall Slab is specified; or 'Superglass Party Wall Roll' is printed on the insulation material where this is specified. Where URSA Cavity Batt 35 is used ensure 'URSA Cavity Batt 35/Party Wall Batt' is printed on the insulation material, or it is branded with the URSA logo.

1. External (flanking) wall junction





Masonry outer leaf

External wall cavity (min 50mm)

Close external wall cavity with a flexible cavity stop. (Optional if external wall cavity is fully filled with built in mineral wool insulation)

100mm Knauf Earthwool Masonry Party Wall Slab or 100mm Superglass Party Wall Roll or URSA Cavity Batt 35 (no gaps to remain)

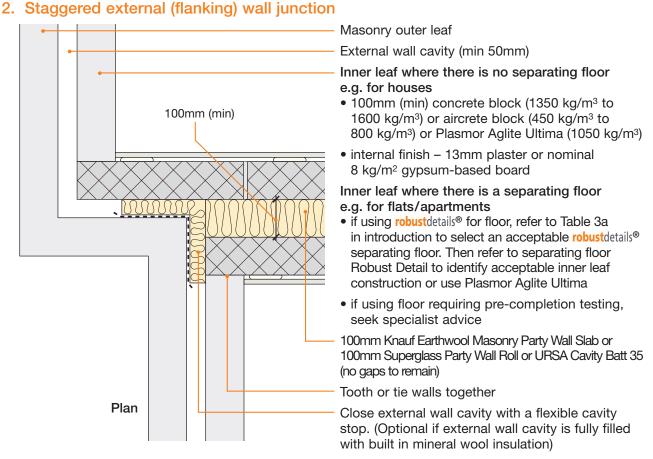
Inner leaf where there is no separating floor e.g. for houses

- 100mm (min) concrete block (1350 kg/m³ to 1600 kg/m³) or aircrete block (450 kg/m³ to 800 kg/m³) or Plasmor Aglite Ultima (1050 kg/m³)
- internal finish 13mm plaster or nominal 8 kg/m² gypsum-based board

Inner leaf where there is a separating floor e.g. for flats/apartments

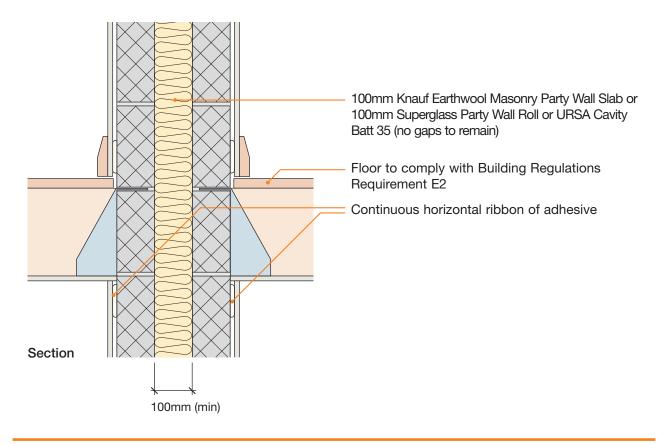
- if using robust details[®] for floor, refer to Table 3a in introduction to select an acceptable robust details[®] separating floor. Then refer to separating floor Robust Detail to identify acceptable inner leaf construction or use Plasmor Aglite Ultima
- if using floor requiring pre-completion testing, seek specialist advice

Tooth or tie walls together

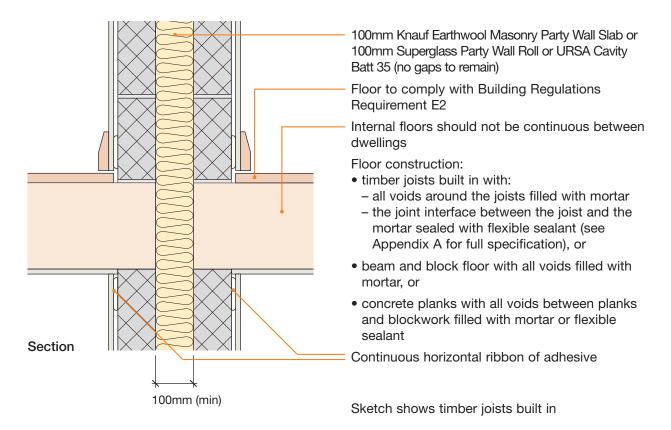


robust details®

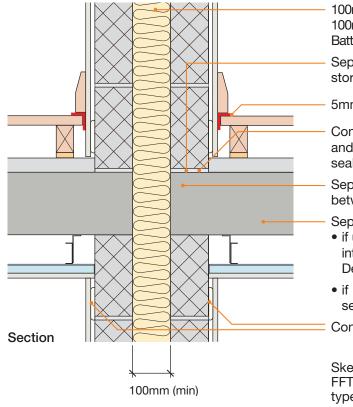
3. Internal floor junction: timber floor supported on joist hangers



4. Internal floor junction: timber floor joists built in, beam and block or precast concrete



5. Separating floor junction



100mm Knauf Earthwool Masonry Party Wall Slab or 100mm Superglass Party Wall Roll or URSA Cavity Batt 35 (no gaps to remain)

Separating wall must not be continuous between storeys

5mm (min) resilient flanking strip

Concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant

Separating floor must not be continuous between dwellings

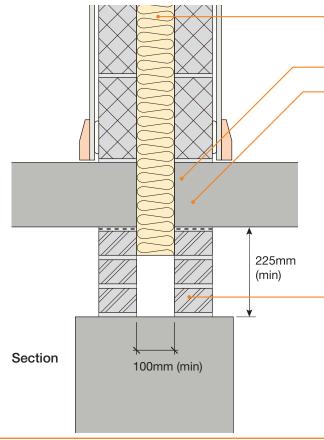
Separating floor:

- if using robustdetails[®] for floor, refer to Table 3a in introduction and see separating floor Robust Detail for floating floor and ceiling options
- if using floor requiring pre-completion testing, seek specialist advice

Continuous horizontal ribbon of adhesive

Sketch shows E-FC-1 type separating floor, FFT1 type floating floor treatment and CT3 type ceiling

6. Ground floor junction: timber floor, beam and block, precast concrete plank, cast in-situ suspended concrete slab or ground bearing concrete slab



100mm Knauf Earthwool Masonry Party Wall Slab or 100mm Superglass Party Wall Roll or URSA Cavity Batt 35 (no gaps to remain)

Ground floor not continuous between dwellings

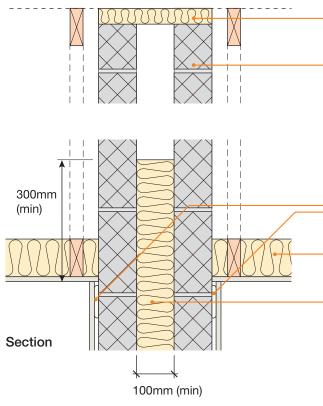
Ground floor construction:

- timber joists built in with:
 - all voids around the joists filled with mortar
 - the joint interface between the joist and the mortar sealed with flexible sealant (see Appendix A for full specification), or
- beam and block floor with all voids filled with mortar, or
- concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant, or
- ground bearing slab

Cavity separating wall continuous to foundation, cavity fill may be provided below minimum clear cavity indicated. Continuous raft foundations between dwellings are not acceptable. Solid walls which support separating walls are only acceptable where each ground floor (not timber joists) is built into one side of the separating wall and breaks the vertical continuity of the wall and the minimum clear cavity indicated is maintained.

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7. Roof junction - pitched roof without room-in-roof



Junction between separating wall and roof filled with flexible closer

Cavity masonry separating wall continuous to underside of roof. Alternatively use spandrel panel – see Appendix A

External wall cavity closed at eaves level with a suitable flexible material (e.g. mineral wool). If a rigid material is used, then it should only be bonded to one leaf

Continuous horizontal ribbon of adhesive

100mm (min) mineral wool insulation – 10 kg/m³ (min)

100mm Knauf Earthwool Masonry Party Wall Slab or 100mm Superglass Party Wall Roll or URSA Cavity Batt 35 (no gaps to remain)

8. Roof junction - pitched roof with room-in-roof

Junction between separating wall and roof filled with flexible closer 100mm (min) mineral wool insulation minimum density 10 kg/m³ or 60mm (min) foil faced PUR or PIR insulation, minimum density 30 kg/m³ (See Appendix A) 2 layers of nominal 8 kg/m² gypsum-based board. Where used rigid insulation may be placed between and/or directly beneath rafters Continuous horizontal ribbon of adhesive Cavity masonry separating wall continuous to underside of roof covering 100mm Knauf Earthwool Masonry Party Wall Slab or 100mm Superglass Party Wall Roll or URSA Cavity Batt 35 (no gaps to remain) Room-in-Room-inroof roof External wall cavity closed at eaves level with a suitable flexible material (e.g. mineral wool). If a rigid material is used, then it should only be Section bonded to one leaf 100mm (min)

CHECKLIST (to be completed by site manager/supervisor)

Com	ipany:			
Site:	:			
Plot	:	Site manager/supervisor:		
Ref.	Item		Yes No (✔) (✔)	Inspected (initials & date)
1.	Is separating wall ca	avity at least 100mm?		(initials & date)
2.	ls external (flanking)	wall cavity at least 50mm?		
3.		blocks lightweight aggregate 3) or Plasmor Aglite Ultima (1050 kg/m3)?		
4.	Is cavity free from d	roppings and debris?		
5.	Are separating wall (see Appendix A)?	ties to Approved Document E "Tie type A"		
6.	Are cavity stops inst	alled where specified in the Robust Detail?		
7.	Are joints fully filled	?		
8.		thwool Masonry Party Wall Slab or 100mm all Roll or URSA Cavity Batt 35 used?		
9.	Are insulation section	ons tightly butted together?		
10.	Are voids around flo	oor joists, chases, etc. fully filled/sealed?		
11.	-	parating floor (e.g. flats/apartments) has strip been installed?		
12.	Are all junctions of voor caulked with sea	vall and ceiling boards sealed with tape ant?		
13.	Is separating wall sa	atisfactorily complete?		
		f any corrective action) signature		
SITE	manager/supervisor	signature		

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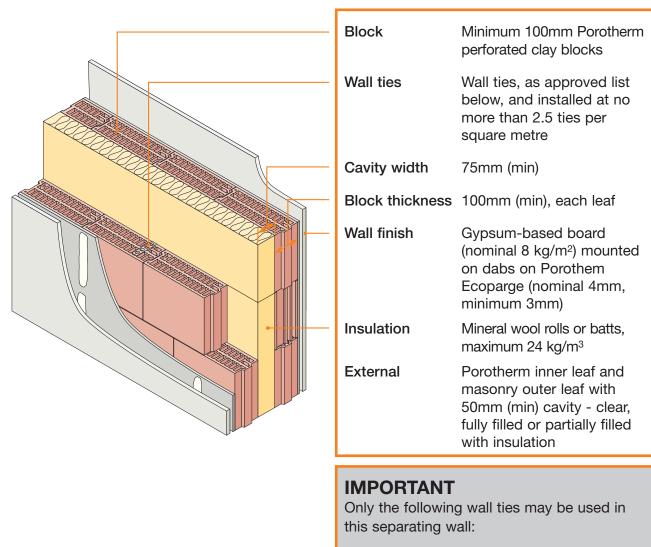
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Separating Wall – Cavity Masonry

E-WM-29

- Porotherm blocks thin joint
 - Insulated cavity
- Ecoparge and gypsum-based board (nominal 8 kg/m²) on dabs

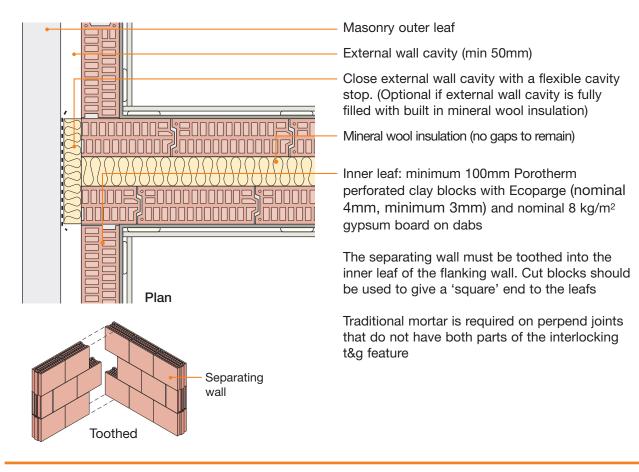


Ancon Building Products CCBA 'Type A'

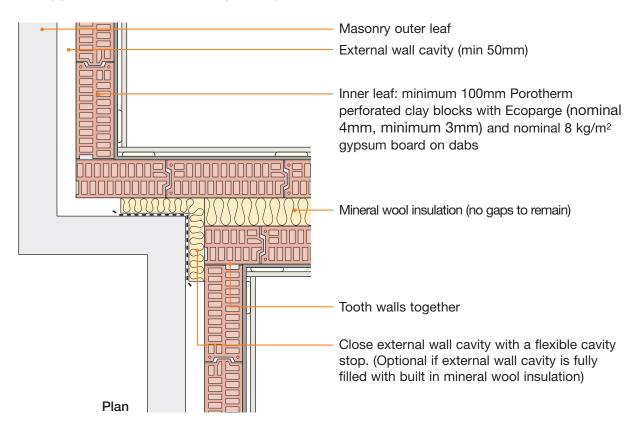
DO

- Keep cavity, insulation and wall ties free from mortar droppings and debris
- When using cut blocks, perpends must be jointed with mortar. Perpends exceeding 15mm must be fully filled; alternatively, those up to 15mm may be pointed.
- Make sure there is no connection between the two leaves except for wall ties, insulation and foundation
- Ensure that only Porotherm PTH blocks and Porotherm bed joint mortar are used in the construction of separating walls and flanking structures in accordance with manufacturer's instructions
- Ensure that the Porotherm Ecoparge is applied to the separating walls in accordance with manufacturer's instructions, paying particular attention to sealing the vertical joints between blocks
- Ensure all insulation sections are tightly butted together and half cuts are made with a clean sharp knife and are installed in accordance with the manufacturer's instructions
- Ensure no chasing for services are made in the separating wall leaves
- Refer to Appendix A

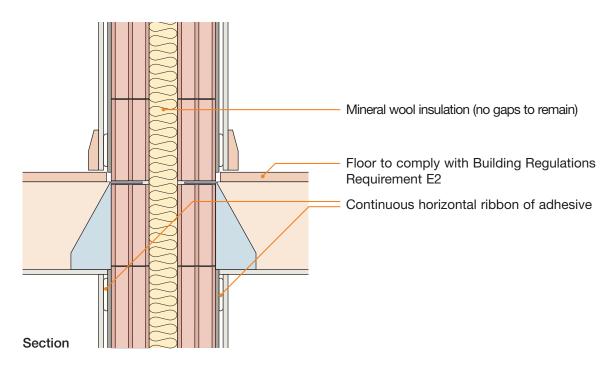
1. External (flanking) wall junction



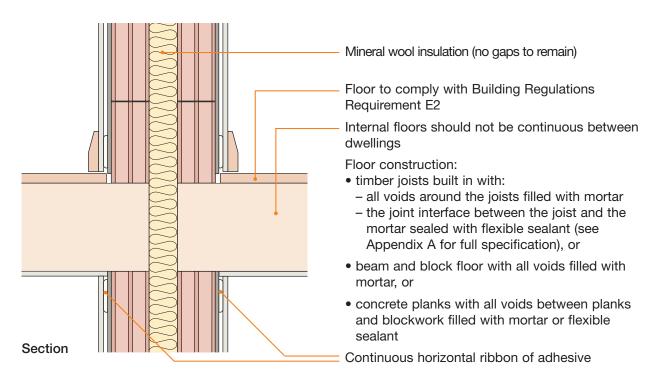
2. Staggered external (flanking) wall junction



3. Internal floor junction: timber floor supported on joist hangers

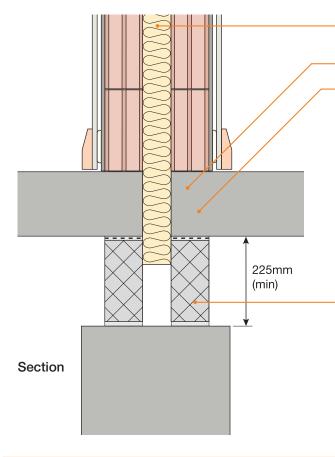


4. Internal floor junction: timber floor joists built in, beam and block or precast concrete



Sketch shows timber joists built in

5. Ground floor junction: timber floor, beam and block, precast concrete plank, cast in-situ suspended concrete slab or ground bearing concrete slab

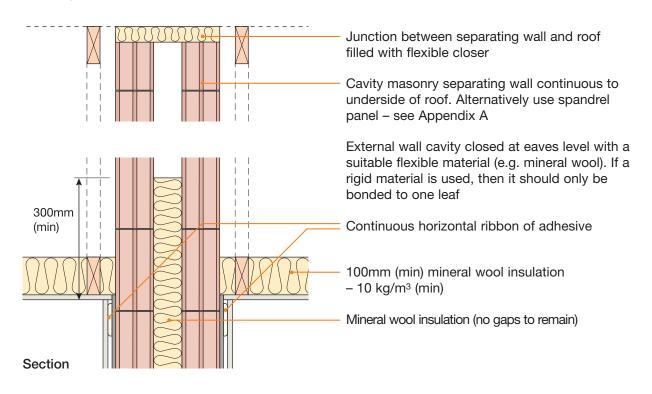


Mineral wool insulation (no gaps to remain)

- Ground floor not continuous between dwellings
- Ground floor construction:
- timber joists built in with:
 - all voids around the joists filled with mortar
 the joint interface between the joist and the
 - mortar sealed with flexible sealant (see Appendix A for full specification), or
- beam and block floor with all voids filled with mortar, or
- concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant, or
- ground bearing slab

Cavity separating wall continuous to foundation, cavity fill may be provided below minimum clear cavity indicated. Continuous raft foundations between dwellings are not acceptable. Solid walls which support separating walls are only acceptable where each ground floor (not timber joists) is built into one side of the separating wall and breaks the vertical continuity of the wall and the minimum clear cavity indicated is maintained.

6. Roof junction - pitched roof without room-in-roof



blank page See overleaf for checklist

CHECKLIST (to be completed by site manager/supervisor)

Com	ipany:				
Site:					
Plot:		Site manager/superviso	r:		
Ref.	Item			Yes No (✔) (✔)	Inspected (initials & date)
1.	Are 100mm (min) Po	protherm blocks used in separ	ating wall?		(initialo d dato)
2.	Is separating wall ca	avity at least 75mm?			
3.	-	'Type A' wall ties installed at i uare metre in separating wall?	no more		
4.	Are insulation section	ons tightly butted together?			
5.	Is cavity free from d	roppings and debris?			
6.	Is Ecoparge (nomin both leafs?	al 4mm, minimum 3mm) ap	plied to		
7.	Is the separating wa	Il free from service chasing?			
8.	ls external (flanking) blocks with Ecopar	wall inner leaf 100mm (min) F ge applied?	Porotherm		
9.	Is junction with fland mortared perpends?	king wall toothed using cut blo	ocks and		
10.	ls external (flanking)	wall cavity at least 50mm?			
11.	Are cavity stops ins	talled where specified in the R	obust Detail?		
12.	Are voids around flo	oor joists fully filled/sealed?			
13.	Are all junctions of voor caulked with sea	wall and ceiling boards sealed lant?	with tape		
14.	Is separating wall sa	atisfactorily complete?			
Cor	ntact details for technical	assistance from Wienerberger, supp	lier of Porotherm	products:	
	ephone: 0161 491 82			onal Tech Ma	nager -
			see www.wie for contact i	enerberger.co nformation	o.uk/blocks
Not	t es (include details of	f any corrective action)			
Site	manager/supervisor	signature			

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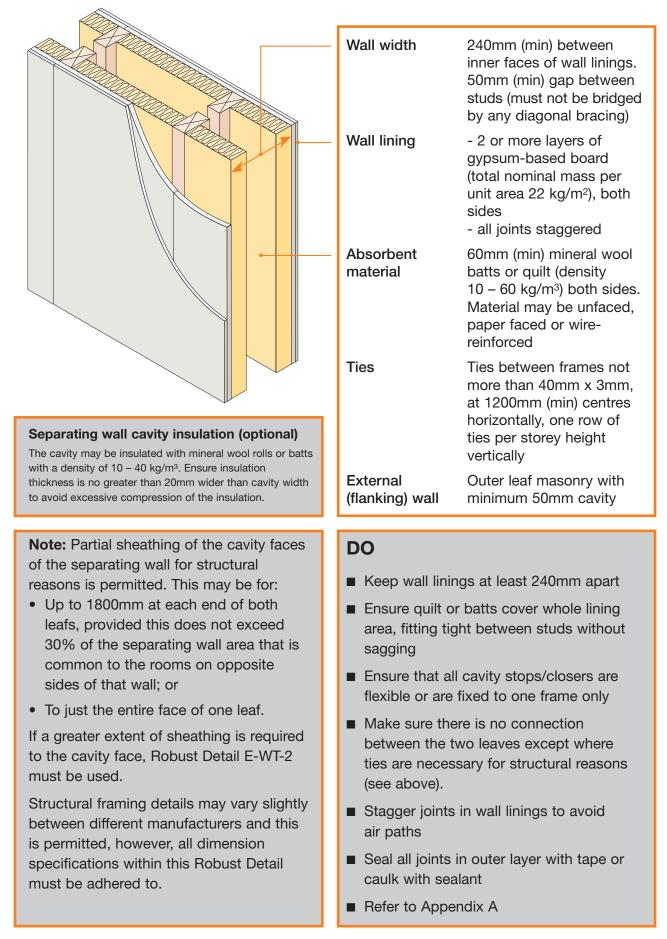
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Separating Wall – Timber Frame

Partial or no sheathing board

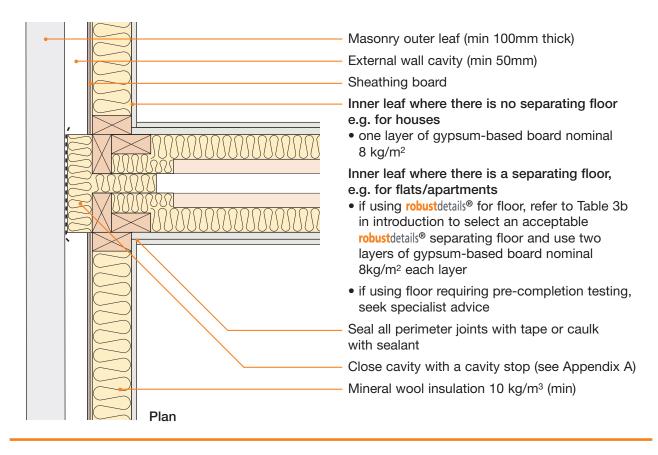
Twin timber frames

E-WT-1

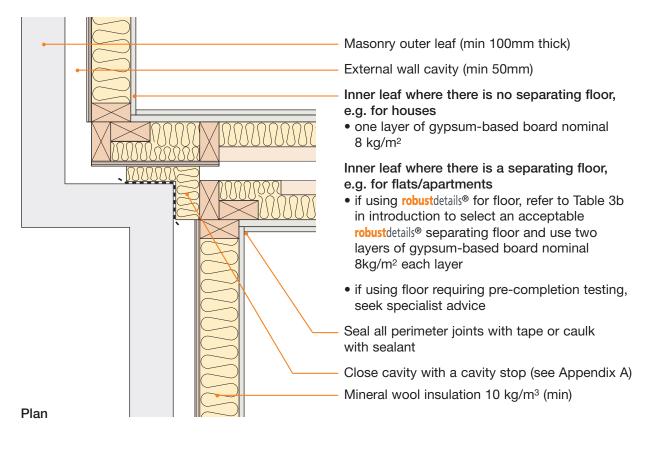


E-WT-1

1. External (flanking) wall junction



2. Staggered external (flanking) wall junction

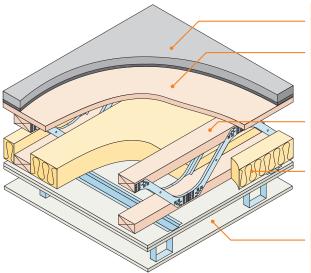


Separating Floor – Metal Web Joists

E-FT-6

Cellecta[®] ScreedBoard[®] 28 on timber sub-floor ■ Timber flange and metal web joists ■

Use with timber frame walls only



-	Floating floor	Cellecta® ScreedBoard® 28
-	Floor decking	18mm thick (min) wood based board, density min 600 kg/m ³
-	Joists	253mm (min) metal web joists (see joist type below)
-	Absorbent material	100mm (min) mineral wool quilt insulation (10–36 kg/m³) between joists
-	Ceiling	See section 9 for suitable ceiling treatment

Joist type

IMPORTANT

Only the following metal web joists may be used in E-FT-6:

- MiTek Posi-Joist
- Prestoplan PresWeb
- WOLF easi-joist
- ITW Gang-Nail Ecojoist
- ITW Alpine SpaceJoist

Notes:

Although single header and sole plates are indicated, increasing the number of header and sole plates would be acceptable, however, all dimension specifications within this Robust Detail must be adhered to.

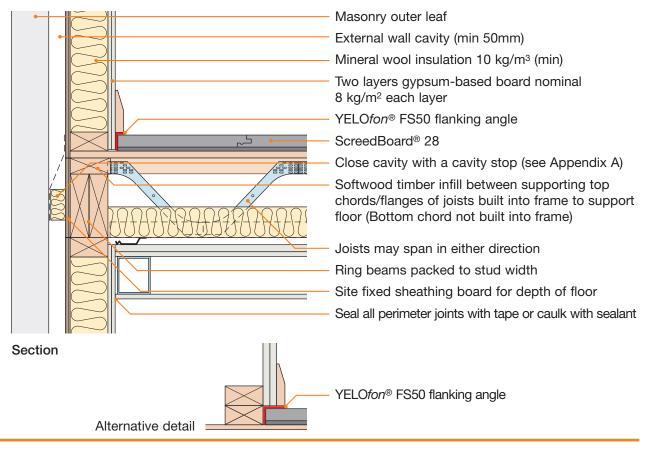
Metal web joists can be **top chord/flange** supported or **fully built-in** and supported on the panel and this is permitted, however, all dimension specifications within this Robust Detail must be adhered to.

DO

- Ensure correct metal web joists are being used (see joist type)
- Lay quilt (min 100mm thick) between joists ensuring no gaps remain
- Apply Cellecta[®] SB adhesive to all ScreedBoard[®] 28 decking joints
- Install YELOfon[®] FS50 flanking angle around the perimeter of the ScreedBoard[®] 28 to isolate floor from walls and skirtings
- Ensure resilient ceiling bars are fixed at right angles to the joists
- Ensure timber floor ceiling treatment is fixed correctly (see section 9)
- Stagger joints in ceiling layers
- Refer to Appendix A

E-FT-6

1. External (flanking) wall junction (top chord supported)



2. External (flanking) wall junction (fully built-in)

