May 2015 Update Pack

Dear Colleague,

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

The major focus of this update pack is the flexible cavity closer fitted in the external cavity, in line with the separating floors. Previously, this could only be omitted if the cavity was fully-filled with built-in mineral wool – but now, where the floors listed below are registered, it can also be omitted if the cavity is filled with blown mineral wool.

Also, the colour of the insulation in E-WM-28 has been changed to more accurately represent the actual material. **Please note:** if you have a newer book (purchased after February 2015), E-WM-28 may already be shown with the blue insulation, but please replace this section anyway.

Please update your February 2015 4th Edition Handbook as follows:

- 1. Remove and replace page 7-8 in the Introduction.
- 2. Remove and replace all pages of E-WM-28.
- 3. Remove and replace just the first page of the concrete separating floors: E-FC-1, E-FC-3, E-FC-4 and E-FC-5.
- Remove and replace all pages of the concrete separating floors: E-FC-6 and E-FC-7.
- 5. Remove and replace just the first page of the concrete separating floors: E-FC-8 and E-FC-9.
- 6. Remove and replace all pages of the concrete separating floor E-FC-10
- 7. Remove and replace just the first page of the concrete separating floors:

E-FC-11, E-FC-12, E-FC-13, E-FC-14, E-FC-15 and E-FC-16.

Please note that the trademark (TM) has now been removed, so the new E-FC-6 is a direct replacement for the existing E-FC-6 TM , for example.

Yours sincerely

John Tebbit Managing Director, Robust Details Limited



Changes to the fourth edition following May 2015 update

Introduction			
Table 4	8	Amendment to note F4 to include floating floor requirement.	
Separatii	۱g ۱	Walls – Masonry	
E-WM-28	3		
All diagrams	All	Cavity insulation coloured blue to match actual material.	
Separatii	ng l	Floors – Concrete	
E-FC-1			
Diagram 1	2	"built in" removed from external cavity closer statement.	
E-FC-4			
Diagram 1	2	"built in" removed from external cavity closer statement.	
<u>E-FC-5</u>			
Diagram 1	2	"built in" removed from external cavity closer statement.	
E-FC-6		<i>"</i>	
Diagram 1	2	"built in" removed from external cavity closer statement.	
Diagram 2	2	"built in" removed from external cavity closer statement.	
Diagram 3	3	"built in" removed from external cavity closer statement.	
E-FC-7			
Diagram 1	2	"built in" removed from external cavity closer statement.	
Diagram 2	2	"built in" removed from external cavity closer statement.	
Diagram 3	3	"built in" removed from external cavity closer statement.	
E-FC-8			
Diagram 1	2	"built in" removed from external cavity closer statement.	
E-FC-9			
Diagram 1	2	"built in" removed from external cavity closer statement.	
E-FC-10			
Diagram 1	2	"built in" removed from external cavity closer statement.	
E-FC-11			
Diagram 1	2	"built in" removed from external cavity closer statement.	
E-FC-12			
Diagram 1	2	"built in" removed from external cavity closer statement.	
E-FC-13			
Diagram 1	2	"built in" removed from external cavity closer statement.	

Section

Page Amendment

Section	Page	Amendment
E-FC-1 4		
Diagram 1	2	"built in" removed from external cavity closer statement.
E-FC-15	5	
Diagram 1	2	"built in" removed from external cavity closer statement.
E-FC-16	5	
Diagram 1	2	"built in" removed from external cavity closer statement.

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

	Separating 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-WS-1	W note 1	W	W see note 1	~
E-WS-2	~	W	W	W
E-WS-3	W	w	w	W
E-WS-4	W see note 1	W	W 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.

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

Loadbearing r	nasonry	
E-WM-1	F1	
E-WM-2	F1	
E-WM-3	F1	
E-WM-4	F1	
E-WM-5	F1	
E-WM-6	F1	
E-WM-8	F1	
E-WM-10	F1	
E-WM-11	F1	
E-WM-12	F1	
E-WM-13	F1	
E-WM-14	F1	
E-WM-15	F1	
E-WM-16	F1	
E-WM-17	F1	
E-WM-18	F1	
E-WM-20	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

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-10	W2		

Timber fram	e	RC fram	e
E-FT-1	W3	E-FC-2	2 W4
E-FT-2	W3	E-FC-1	10 W4
E-FT-3	W3		
E-FT-4	W3		
E-FT-5	W3		
E-FT-6	W3	Light ste	eel frame
E-FT-7	W3	E-FS-1	W4
E-FT-8	W3	E-FS-2	2 W5

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

- 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.

Separating Wall – Cavity Masonry

E-WM-28

Lightweight aggregate blocks

Knauf Supafil Party Wall Wool

Gypsum-based board (nominal 8 kg/m²) on dabs ■



DO

- Keep cavity 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
- Supafil Party Wall Wool is only to be installed by contractors approved by Knauf Insulation; and must not exceed 25 kg/m³ density once installed

- Ensure all injection holes are drilled through mortar joints, and made good by fully filling with mortar
- 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

Edition 4

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)

Supafil Party Wall Wool

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)
- 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
- if using floor requiring pre-completion testing, seek specialist advice

Tooth or tie walls together



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



5. Separating floor junction



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



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)

Supafil Party Wall Wool

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



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 cavity at least 100mm?		(initialo di dato)
2.	Is external (flanking) wall cavity at least 50mm?		
3.	Are separating wall blocks lightweight aggregate (1350 to 1600 kg/m ³)?		
4.	Is cavity free from droppings and debris?		
5.	Are separating wall ties to Approved Document E "Tie type A" (see Appendix A)?		
6.	Are cavity stops installed where specified in the Robust Detail?		
7.	Are joints fully filled?		
8.	Is blue Supafil Party Wall Wool installed to a maximum density of 25 kg/m ³ , and was it by an approved installer?		
9.	Are all injection holes drilled through the mortar joints, and made good by fully filling with mortar?		
10.	Are voids around floor joists, chases, etc. fully filled/sealed?		
11.	Where there is a separating floor (e.g. flats/apartments) has the resilient flanking strip been installed?		
12.	Are all junctions of wall and ceiling boards sealed with tape or caulked with sealant?		
13.	Is separating wall satisfactorily complete?		
	ntact details for technical assistance from Knauf Insulation Ltd, manufacturer of ephone: 01744 766 666 Fax: 01744 766 667 E-mail: tech		Wall Wool: aufinsulation.com
Not	tes (include details of any corrective action)		
Site	manager/supervisor signature		

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Separating Floor – Concrete

E-FC-1

Precast concrete plank ■ Screed ■ E-FC-1



Sketch shows FFT5 type floating floor treatment and CT1 type ceiling treatment

-	Floating floor	See section 4 for suitable floating floor treatment
_	Screed	 40mm (min) screed directly applied to plank cement:sand or proprietary screed nominal 80 kg/m² mass per unit area, see Appendix A
-	Structural floor	Precast concrete plank of 150mm (min) thickness and 300 kg/m ² (min) mass per unit area
-	Ceiling	See section 3 for suitable ceiling treatment

DO

- Butt planks tightly together
- Grout all joints between planks
- Fill all voids between walls and floor
- Ensure floating floor treatment is suitable and install in accordance with the manufacturer's instructions
- Install flanking strips around the perimeter of the flooring board to isolate floor from walls and skirtings
- Make sure ceiling treatment is installed in accordance with the manufacturer's instructions (where applicable)
- Ensure that only the correct blocks are used in the construction of external (flanking) walls, unless specifically referred to in the Handbook all blocks should be assumed to be solid (i.e. not hollow or cellular)
- Refer to Appendix A

1. External (flanking) wall junction



Sketch shows FFT5 type floating floor treatment and CT1 type ceiling treatment

2. Separating wall junction



Sketch shows FFT5 type floating floor treatment and CT1 type ceiling treatment

Performance and monitoring results of E-FC-3 have shown that, where built strictly in accordance with the published Robust Detail, the floors meet Robust Details Limited's performance criteria.

Unfortunately, the results also revealed that an unacceptably high proportion of floors deviated from the Robust Detail, which led to reduced acoustic performance to the extent that they failed under test.

Accordingly, Robust Details Limited has determined that no new registrations for Robust Detail E-FC-3 will be accepted with effect from 1st November 2006.

The E-FC-3 Robust Detail has therefore been removed from the Handbook.

Dave Baker OBE Chief Executive, Robust Details Limited



E-FC-4

Precast concrete plank

Screed laid on Thermal Economics IsoRubber resilient layer

	- Screed	65mm (min) cement:sand screed or 40mm (min) proprietary screed of nominal 80 kg/m ² mass per unit area
	- Resilient layer	6mm IsoRubber layer with IsoEdge flanking strip
	- Structural floor	Precast concrete plank of 150mm (min) thickness and 300 kg/m ² (min) mass per unit area
Sketch shows CT0 type ceiling treatment	- Ceiling	See section 3 for suitable ceiling treatment which is dependent on floor plank depth and supporting wall density
SYSTEM INSTALLATION	DO	
The use of this screed resilient layer	Butt planks tig	ghtly together
system must incorporate the following:	Grout all joints	s between planks
1) 6mm IsoRubber (resilient layer to be	■ Fill all voids b	etween walls and floor
laid over entire floor area with minimum		soRubber resilient layer is
50mm overlaps)		entire floor surface and has ints of 50mm sealed with
2) IsoEdge flanking strip		ccount should the screed
3) All joints taped		tact with the floor slab. (see
IsoEdge Flanking Strip		40mm proprietary screeds)
		soRubber overlaps with ing strip. On no account
Min. 50mm All joints overlap, taped		come into contact with
	floor slab or p	erimeter walls
		Edge flanking strip isolates
Floor slab	Ŭ	nd wall linings. On no Id screed come into contact
IsoEdge flanking strip to be installed at		ining and skirting
all room perimeters. See manufacturer's		nly the correct blocks are
guidance.		onstruction of external
See Section 4 for acceptable installation	(0)	s, unless specifically the Handbook all blocks
alternatives for 40mm proprietary screeds		umed to be solid (i.e. not
From 1 January 2009, Robust Details Limited can only	hollow or cellu	
accept registration of this floor once the builder agrees to receive training from Thermal Economics on the		ling treatment is installed
installation of the screed and resilient layer. Please		e with the manufacturer's
contact Robust Details Limited for further information.	instructions (v	vhere applicable)

E-FC-4

1. External (flanking) wall junction



Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) aggregate concrete block (1350 kg/m3 to 1600 kg/m3 or 1850 - 2300 kg/m3) or Plasmor Aglite Ultima (1050 kg/m³) or aircrete block (450-800 kg/m³)

IsoEdge flanking strip must overlap with IsoRubber resilient layer and isolate screed from perimeter walls and skirtings

IsoRubber resilient layer must have 50mm (min) overlapped joints and be sealed with tape

Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation

- Concrete planks must be built into walls:
- walls must not be continuous between storeys
- planks must not abut inner leaf
- all voids between planks and blockwork filled with mortar or flexible sealant

Continuous horizontal ribbon of adhesive or IsoEdge ceiling strip

Nominal 8 kg/m² gypsum-based board or 13mm plaster

Sketch shows CT0 type ceiling treatment

2. Separating wall junction



Sketch shows CT0 type ceiling treatment

Separating wall:

- if using robust details® for wall refer to Table 3a in introduction to select an appropriate Robust Detail separating wall
- if using wall requiring pre-completion testing - seek specialist advice

IsoEdge flanking strip

IsoRubber resilient layer to overlap IsoEdge flanking strip

Concrete planks to be built into wall:

- wall must not be continuous between storeys
- planks must not abut separating wall
- all voids between planks and blockwork filled with mortar or flexible sealant

Continuous horizontal ribbon of adhesive or IsoEdge ceiling strip

Precast concrete plank

E-FC-5

Screed laid on Cellecta[®] YELOfon[®] HD10+ resilient layer system ■



E-FC-5

1. External (flanking) wall junction



Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) aggregate concrete block (1350-1600 kg/m³ or 1850-2300 kg/m³) or aircrete block (450-800kg/m³).

E-strip perimeter edging must be overlapped by YELOfon[®] HD10+ resilient layer with joints sealed with *J-strip* tape to isolate screed from perimeter walls and skirtings

YELOfon® HD10+ resilient layer must have 150mm (min) overlapped joints and be sealed with *J-strip* tape

Concrete planks must be built into walls:

- walls must not be continuous between storeys
- planks must not abut inner leaf
- all voids between planks and blockwork filled with mortar or flexible sealant

Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation

Continuous horizontal ribbon of adhesive

Nominal 8 kg/m² gypsum-based board or 13mm plaster

Sketch shows CT0 type ceiling treatment

2. Separating wall junction



Separating wall:

- if using robustdetails® for wall refer to Table 3a in introduction to select an appropriate Robust Detail separating wall
- if using wall requiring pre-completion testing - seek specialist advice

NOTE: aircrete block separating wall requires 200mm (min) planks and ceiling treatment CT5 (Refer to section 3)

E-strip perimeter edging must be overlapped by YELOfon[®] HD10+ resilient layer with joints sealed with *J-strip* tape to isolate screed from perimeter walls and skirtings

YELOfon[®] HD10+ resilient layer must have 150mm (min) overlapped joints and be sealed with *J-strip* tape

Concrete planks to be built into wall:

- wall must not be continuous between storeys
- planks must not abut separating wall
- all voids between planks and blockwork filled with mortar or flexible sealant

Continuous horizontal ribbon of adhesive

Sketch shows CT0 type ceiling treatment

Separating Floor – Concrete

E-FC-6

- Beam and block floor with precast or in-situ edge beams
 - Screed laid on Regupol E48 resilient layer system
- For use with dense aggregate block flanking walls only



E-FC-6



1. External (flanking) wall junction – beams parallel with wall (using precast edge beams)



Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) dense aggregate concrete block (1850-2300kg/m³)

8mm Regupol E48 **must isolate screed** from all perimeter masonry walls, wall linings and skirting 8mm Regupol E48 must have 50mm (min) overlapped joints and be sealed with Regupol tape Beam and block floor:

- min 50mm concrete topping to all floor blocks
- walls must not be continuous between storeys
- floor blocks to be tightly abutted (see section 7 for floor block types)
- precast concrete edge beam min 300mm wide must break vertical continuity of wall leaves (NB: edge beam shape may vary between manufacturers)
- all voids between edge beam and inner leaf blockwork filled with mortar or flexible sealant
- Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation
- Continuous horizontal ribbon of adhesive
- Nominal 8kg/m² gypsum-based board or 13mm plaster





robustdetails[®]

3. External (flanking) wall junction - beams bearing on wall



4. Separating wall junction

Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) dense aggregate concrete block (1850-2300kg/m³)

8mm Regupol E48 **must isolate screed** from all perimeter masonry walls, wall linings and skirting 8mm Regupol E48 must have 50mm (min)

overlapped joints and be sealed with Regupol tape Beam and block floor:

- min 50mm concrete topping to all floor blocks
- in-situ downstand beam must be min 75mm wide and must break vertical continuity of wall leaves
- walls must not be continuous between storeys
- floor blocks to be tightly abutted (see section 7 for floor block types)
- junction between floor blocks and wall must be closed (see section 7)

Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation

Continuous horizontal ribbon of adhesive

Nominal 8kg/m² gypsum-based board or 13mm plaster



Separating wall:

 if using robustdetails[®] for wall – refer to Table 3a in introduction to select an appropriate robustdetails[®] separating wall

if using wall requiring pre-completion testing – seek specialist advice

Core floor junctions with wall:

- floor blocks to be tightly abutted
- if beams are bearing on wall (i.e. perpendicular to wall) an in-situ concrete downstand of min 75mm width must be used
- min 50mm concrete topping to all floor blocks
- if beams are parallel to separating wall min 300mm wide precast concrete edge beam or min 75mm wide in-situ concrete downstand must break vertical continuity of wall leaves
- walls must not be continuous between storeys
- all voids between precast edge beam and separating wall blockwork filled with mortar or flexible sealant

Continuous horizontal ribbon of adhesive

Sketch shows E-WM-3 separating wall



5. Loadbearing internal wall - floor beams parallel to wall



6. Loadbearing internal wall - floor beams bearing onto wall



7. Floor block types

Block types

Rebated or 'T' shape dense blocks may be used for beams of 150mm depth or greater.

Rebated or 'T' shape dense blocks may be recessed for beams of 175mm or greater.

100mm dense blocks may be used for beams of 200mm depth or greater.



Cut rows

No more than one cut row of floor blocks may be used per room floor with minimum 25mm concrete topping.

Where a cut row junctions with perimeter walls ensure that no gap is left and that a cut block or brick slip is used to seal this junction prior to applying concrete topping.

Wall head and floor block junctions

No gaps should remain where the last floor block junctions at the wall head.

Where the floor block does not close this gap, brick slips or cut blocks may be used.





8. Ceiling treatments for E-FC-6

All ceiling treatments must be installed in accordance with the manufacturer's instructions. All ceiling joints must be sealed with tape or caulked with sealant.

The minimum depth between top of beams and ceiling board **must not be less** than 300mm.

Note: the sound insulation performance of all ceiling treatments is increased if:

- resilient hangers are used
- increased thickness or density of mineral fibre quilt is used. (Do not fully fill the ceiling void with quilt.)



Downlighters and recessed lighting

Downlighters or recessed lighting may be installed in the ceiling:

- in accordance with the manufacturer's instructions
- at no more than one light per 2m² of ceiling area in each room or see Appendix F
- at centres not less than 0.75m
- into openings not exceeding 100mm diameter or 100x100mm

Particular attention should also be paid to Building Regulations Part B – Fire Safety.

Floor depth requirements and ceiling treatments

All E-FC-6 floors must have a minimum depth of 300mm between top of beam and ceiling board

Only suspended metal frame ceilings systems may be used

Min 50mm mineral fibre quilt (min 10kg/m³) in the ceiling void to cover whole ceiling board area

One layer of nominal 10kg/m² gypsum-based board

9. Resilient layer installation



SCREED TYPE

65mm (min) cement:sand screed or 40mm (min) proprietary screed, nominal 80 kg/m² mass per unit area

- 8mm Regupol E48 must be laid **dimpled side** down
- overlap all Regupol E48 joints (both along and across the roll) by at least 50mm and tape all joints using Regupol tape
- turn up Regupol E48 at walls to ensure screed will not touch the walls and is of sufficient length to lap under wall linings and skirtings
- lay a waterproof membrane (min 0.2mm thick) over the entire floor

10. Underfloor heating

Underfloor heating systems (including connectors and fixings) installed within the screed must not penetrate the resilient layer or bridge the screed to the slab.

Underfloor heating systems which have a supporting layer/board may be laid on top of the Regupol E48

Appropriate screed depth cover to the heating system must be designed for – contact underfloor heating manufacturer for guidance.



11. Services - service pipes through separating floor



12. Service - service pipes through separating floor (using precast edge beams)



blank page See overleaf for checklist

E-FC-6

CHECKLIST (to be completed by site manager/supervisor)

Com	ipany:		
Site:			
Plot:	Site manager/supervisor:		
Ref.	Item	Yes No (✔) (✔)	Inspected (initials & date)
•	Are the external wall inner leaves and separating walls of dense aggregate blockwork (min 1850-2300kg/m ³)?		
2.	Are all floor blocks of dense aggregate (1850-2300kg/m ³) and tightly abutted?		
3.	Are min 300mm wide precast concrete edge beams, or min 75mm in-situ concrete downstands installed where the beams are parallel to the external or separating flanking walls?		
1.	Are in-situ concrete downstand beams min 75mm wide where the beams are bearing on the external or separating flanking walls?		
5 .	Is the concrete topping to the floor blocks at least 50mm thick?		
6.	Is the Regupol E48 dimple side down and covering the whole floor area with min 50mm overlapped joints and sealed with Regupol tape?		
7.	Is the Regupol E48 isolating the screed from the perimeter walls, wall linings and skirting?		
3.	Is the ceiling system metal frame, with min 50mm mineral fibre quilt laid over the whole ceiling and of min 300mm depth from top of beam to ceiling board?		
9.	Is the ceiling board 10kg/m ² and are all joints sealed with tape or caulked with sealant?		
10.	Are service pipes wrapped in quilt and boxed with two layers of nominal 8kg/m ² gypsum-based board?		
1.	Is the separating floor satisfactorily complete?		
	ntact details for technical assistance from CMS Acoustics, sole distributor of R ephone: 01925 577711 Fax: 01925 577733 E-mail: info@	•	
Not	tes (include details of any corrective action)		
Site	e manager/supervisor signature		

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Separating Floor – Concrete

E-FC-7

- Beam and block floor with precast or in-situ edge beams
 - Using floating floor treatments
 - For use with dense aggregate block flanking walls only



DO

- Butt floor blocks tightly together
- Cover floor blocks with min 50mm concrete topping
- Ensure that concrete does not enter the cavity and bridge the two leaves of supporting wall blockwork - it is acceptable to use proprietary cavity stops to provide a shutter
- Ensure precast or in-situ edge beams are correctly installed
- Ensure in-situ concrete downstand is at least 75mm wide
- Ensure levelling screed is applied before using FFT1 or FFT3 (resilient batten) floating floor treatments (see section 9)

- Ensure quilt is inserted within FFT2 (cradle/saddle) floating floor treatment (see section 9)
- Ensure floating floor treatment is suitable and install in accordance with manufacturer's instructions
- Install flanking strips around the perimeter of the flooring board to isolate floor from walls and skirtings
- Ensure depth from top of beams to ceiling is min 300mm
- Ensure 25mm mineral fibre quilt is installed over whole ceiling board areas
- Ensure that only solid blocks (i.e. not hollow or cellular) are used in the construction of external (flanking) walls

E-FC-7



1. External (flanking) wall junction – beams parallel with wall (using precast edge beams)



Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) dense aggregate concrete block (1850-2300kg/m³)

5mm (min) resilient flanking strip

Section shows FFT3 type floating floor over 20mm (min) levelling screed (see section 9 for acceptable floating floor alternatives)

Beam and block floor:

- min 50mm concrete topping to all floor blocks
- walls must not be continuous between storeys
- floor blocks to be tightly abutted (see section 7 for floor block types)
- precast concrete edge beam min 300mm wide must break vertical continuity of wall leaves (NB: edge beam shape may vary between manufacturers)
- all voids between edge beam and inner leaf blockwork filled with mortar or flexible sealant
- Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation
- Continuous horizontal ribbon of adhesive
- Nominal 8kg/m² gypsum-based board or 13mm plaster





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External (flanking) wall junction – beams bearing on wall



Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) dense aggregate concrete block (1850-2300kg/m³)

5mm (min) resilient flanking strip

Section shows FFT3 type floating floor over 20mm (min) levelling screed (see section 9 for acceptable floating floor alternatives)

Beam and block floor:

- min 50mm concrete topping to all floor blocks
- in-situ downstand beam must be min 75mm wide and must break vertical continuity of wall leaves
- walls must not be continuous between storeys
- floor blocks to be tightly abutted (see section 7 for floor block types)
- junction between floor blocks and wall must be closed (see section 7)

Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation

Continuous horizontal ribbon of adhesive

Nominal 8kg/m² gypsum-based board or 13mm plaster

4. Separating wall junction

Separating wall: if using robust details[®] for wall – refer to Table 3a in introduction to select an appropriate robustdetails® separating wall if using wall requiring pre-completion testing - seek specialist advice Core floor junctions with wall: floor blocks to be tightly abutted if beams are bearing on wall (i.e. perpendicular to wall) an in-situ concrete downstand of min 20 30 7 100 75mm width must be used • min 50mm concrete topping to all floor blocks 200 if beams are parallel to separating wall min 000 300mm wide precast concrete edge beam or min 75mm wide in-situ concrete downstand must break vertical continuity of wall leaves ากกกกกกระทั่งการที่สุดการที่การที่ INNI INNINANA walls must not be continuous between storeys all voids between precast edge beam and separating wall blockwork filled with mortar or flexible sealant Continuous horizontal ribbon of adhesive

Sketch shows FFT3 type floating floor over 20mm (min) levelling screed and E-WM-3 separating wall



5. Loadbearing internal wall - floor beams parallel to wall



6. Loadbearing internal wall - floor beams bearing onto wall



7. Floor block types

Block types

Rebated or 'T' shape dense blocks may be used for beams of 150mm depth or greater.

Rebated or 'T' shape dense blocks may be recessed for beams of 175mm or greater.

100mm dense blocks may be used for beams of 200mm depth or greater.



Cut rows

No more than one cut row of floor blocks may be used per room floor with minimum 25mm concrete topping.

Where a cut row junctions with perimeter walls ensure that no gap is left and that a cut block or brick slip is used to seal this junction prior to applying concrete topping.

Wall head and floor block junctions

No gaps should remain where the last floor block junctions at the wall head.

Where the floor block does not close this gap, brick slips or cut blocks may be used.



(min) 25mm concrete



8. Ceiling treatments for E-FC-7

All ceiling treatments must be installed in accordance with the manufacturer's instructions. All ceiling joints must be sealed with tape or caulked with sealant.

The minimum depth between top of beams and ceiling board **must not be less** than 300mm.

Note: the sound insulation performance of all ceiling treatments is increased if:

- resilient hangers are used
- increased thickness or density of mineral fibre quilt is used. (Do not fully fill the ceiling void with quilt.)

Downlighters and recessed lighting

Downlighters or recessed lighting may be installed in the ceiling:

- in accordance with the manufacturer's instructions
- at no more than one light per 2m² of ceiling area in each room or see Appendix F
- at centres not less than 0.75m
- into openings not exceeding 100mm diameter or 100x100mm

Particular attention should also be paid to Building Regulations Part B – Fire Safety.



Floor depth requirements and ceiling treatments

All E-FC-7 floors must have a minimum depth of 300mm between top of beam and ceiling board

Only suspended metal frame ceilings systems may be used

Min 25mm mineral fibre quilt (min 10kg/m³) in the ceiling void to cover whole ceiling board area

One layer of nominal 10kg/m² gypsum-based board
9. Floating floor treatments for E-FC-7

All floating floor treatments :

- a) Must achieve a minimum laboratory performance of $rd\Delta L_w$ =17dB see Appendix D.
- b) Must be installed in accordance with the manufacturer's instructions.
- c) Require 5mm (min) resilient flanking strips around the perimeter of the flooring board to isolate floor from walls and skirting.





- d) For further guidance on floating floor treatments and flanking strips, please refer to Appendix A.
- Note void dimensions indicated are when floor is loaded to 25 kg/m².

FFT1 – Resilient composite deep batten system with 20mm levelling screed

- 18mm (min) t&g flooring board
- resilient layer must be continuous and prebonded to batten
- resilient composite deep battens
- ensure any services do not bridge the resilient layer
- battens may have the resilient layer at the top or the bottom

FFT2 – Resilient cradle and batten system with 25mm mineral fibre quilt (min 10kg/m³)

- 18mm (min) t&g flooring board
- cradle and batten
- ensure any services do not bridge the resilient layer

FFT3 – Resilient composite standard batten system with 20mm levelling screed

- 18mm (min) t&g flooring board
- resilient layer must be continuous and prebonded to batten
- resilient composite standard battens
- ensure any services do not bridge the resilient layer
- battens may have the resilient layer at the top or the bottom

10. Underfloor heating

Underfloor heating may be used with timber floating floors FFT1, FFT2 and FFT3.

Underfloor heating must not bridge or bypass the FFT resilient layer (i.e. avoid bridging the void between the flooring board and core floor).

Rigid flooring boards must not come into direct contact with the flooring board layer.

See Appendix A for further guidance.



11. Services - service pipes through separating floor



12. Service - service pipes through separating floor (using precast edge beams)



blank page See overleaf for checklist

E-FC-7

CHECKLIST (to be completed by site manager/supervisor)

Company:					
Site:					
Plot:		Site manager/supervisor:			
Ref.	Item		Yes No (✔) (✔)	Inspected (initials & date)	
1.		l inner leaves and separating walls of ockwork (min 1850-2300kg/m³)?			
2.	Are all floor blocks of tightly abutted?	of dense aggregate (1850-2300kg/m³) and			
3.	Are min 300mm wide precast concrete edge beams, or min 75mm in-situ concrete downstands installed where the beams are parallel to the external or separating flanking walls?				
4.		downstand beams min 75mm wide where g on the external or separating flanking walls?			
5.	Is the concrete topp	ing to the floor blocks at least 50mm thick?			
6.	screed is required u	r been installed correctly where a levelling nder FFT1 or 3 resilient battens or mineral between the FFT2 cradles/saddles?			
7.	Has the floating floo manufacturer's instr	r been installed in accordance with the uctions?			
8.	Have the resilient fla perimeters?	nking strips been fitted at the floor edge			
9.	fibre quilt laid over t	n metal frame, with min 25mm mineral he whole ceiling and of min 300mm eam to ceiling board?			
10.	Is the ceiling board for caulked with seals	Okg/m ² and are all joints sealed with tape ant?			
11.		rapped in quilt and boxed with two layers lypsum-based board?			
12.	Is the separating flo	or satisfactorily complete?			
Not	t es (include details of	any corrective action)			
Site	e manager/superviso	r signature			

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E-FC-8

- Precast concrete plank
- Screed laid on resilient layers
 - Bonded resilient floor cover

	Floor covering	4.5mm (min) bonded resilient floor covering (see section 4)		
	Screed	65mm (min) sand cement screed, or 40mm proprietary screed, 80 kg/m ² (min) mass per unit area		
	Isolating layer (1)	5mm foamed polyethylene layer 30-36 kg/m ³		
	Isolating layer (2)	25mm mineral wool batt 140 kg/m ³ (min), 25mm EPS (flooring grade SD) or extruded polystyrene insulation		
	Structural floor	Precast concrete plank of 150mm (min) thickness and 300 kg/m ² (min) mass per unit area		
	Ceiling	See section 3 for suitable ceiling treatment which is dependent on floor plank depth		
IMPORTANT	DO			
Bonded resilient floor coverings must be tested in accordance with Appendix G.	Butt planks tightly together			
See section 4 for performance requirements and edge detail installation options.	Grout all joints between planks			
Polyethylene foams may not be used for	■ Fill all voids between walls and floor			
bonded resilient floor coverings. The resilient floor covering material must	Install the 5mm and 25mm isolating layers with staggered joints			
be overprinted with wording prohibiting its removal.	Make sure ceiling treatment is installed in			
Bonded resilient floor covering should be suitably resistant to site and removals	accordance with the manufacturer's instructions (where applicable)			
traffic.	Ensure the isolating edge strip is 25mm mineral wool batt (min 140 kg/m ³) or expanded (SD grade) or extruded polystyrene insulation board			
		Ensure resilient floor cover is bonded		

using only suppliers' recommended adhesives, and is not readily removable



Sketch shows CT0 type ceiling treatment

Alternative detail

Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) aggregate concrete block (1350 kg/m³ to 1600 kg/m³) or (1850 - 2300 kg/m³) or aircrete block (600-800 kg/m³)

Bonded resilient floor cover installed between skirting and screed (see section 4 for installation options)

5mm isolating layer (1)

25mm isolating layer (2)

25mm (min) isolation edge strip

Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation

Concrete planks must be built into walls:

- wall must not be continuous between storeys
- planks must not abut separating wall
- all voids between planks and blockwork filled with mortar or flexible sealant

Continuous ribbon of adhesive

Nominal 8kg/m² gypsum-based board or 13mm plaster



Mastic sealant ensures skirting and wall lining are isolated from screed

2. Separating wall junction



Separating wall:

- if using robustdetails[®] for wall refer to Table 3a in introduction to select an appropriate Robust Detail separating wall
- if using wall requiring pre-completion testing seek specialist advice

25mm (min) isolation edge strip

Concrete planks to be built into wall:

- wall must not be continuous between storeys
- planks must not abut separating wall
- all voids between planks and blockwork filled with mortar or flexible sealant

Sketch shows CT0 type ceiling treatment

E-FC-9

3mm Thermal Economics IsoRubber Top ■

Precast concrete plank

Screed



E-FC-9

DO

- Butt planks tightly together
- Grout all joints between planks
- Fill all voids between walls and floor
- Ensure IsoRubber Top fully covers floor area
- Make sure ceiling treatment is installed in accordance with the manufacturer's instructions (where applicable)
- Ensure IsoRubber Top is bonded to screed with IsoBond adhesive





Alternative detail

2. Separating wall junction



Separating wall:

- if using robustdetails[®] for wall refer to Table 3a in introduction to select an appropriate Robust Detail separating wall
- if using wall requiring pre-completion testing seek specialist advice

3mm IsoRubber Top installed over whole floor area and between skirting and screed

Concrete planks to be built into wall:

- wall must not be continuous between storeys
- planks must not abut separating wall
- all voids between planks and blockwork filled with mortar or flexible sealant

Sketch shows CT0 type ceiling treatment

E-FC-10

- 3mm Thermal Economics IsoRubber Top
 - In-situ concrete slab
- For use in loadbearing masonry or reinforced concrete frame construction



Reinforced concrete frame construction – alternative external (flanking) wall construction

Storey height glazing units are an acceptable alternative to the cavity walls illustrated:

- glazing units should not be continuous between storeys
- mullion or transom supports/framing should not be continuous between dwellings
- Refer to Appendix A

Note:

Apartments may be built with **robust**details[®] cavity masonry separating walls (refer to Table 3a of the Introduction) provided floor slab is **NOT** continuous between dwellings

DO

- Ensure floor slab density is 2400 kg/m³ (min)
- Fill all voids between walls and floor
- Ensure IsoRubber Top is fully bonded to slab with IsoBond adhesive
- Ensure IsoRubber Top fully covers floor surface
- Make sure there is a ceiling void of 150mm (min) and ceiling treatment is installed in accordance with the manufacturer's instructions (where applicable)
- Ensure that floor slab breaks the vertical continuity of flanking walls
- Ensure that concrete does not enter the cavity and bridge the two leaves of supporting wall blockwork – it is acceptable to use proprietary cavity stops to provide a shutter
- Refer to Appendix A

E-FC-10

1. External (flanking) wall junction - loadbearing masonry construction



2. External (flanking) wall junction – reinforced concrete frame construction with steel or timber frame inner leaf



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3. External (flanking) wall junction - reinforced concrete frame construction



4. Separating wall junction - loadbearing masonry construction





5. Ceiling treatment for E-FC-10

Ceiling treatment must be installed in accordance with the manufacturer's instructions.

All ceiling joints must be sealed with tape or caulked with sealant.

The maximum load on resilient bars shall not exceed that specified in the manufacturer's instructions.

Note: the sound insulation performance of ceiling treatment is increased if:

- 25mm (min) mineral wool quilt is placed in the ceiling void, and/or
- resilient hangers are used

Downlighters and recessed lighting

Provided there is a minimum ceiling void of 150mm, downlighters or recessed lighting may be installed in the ceiling:

- in accordance with the manufacturer's instructions
- at no more than one light per 2m² of ceiling area in each room or see Appendix F
- at centres not less than 0.75m
- into openings not exceeding 100mm diameter or 100x100mm

Particular attention should also be paid to Building Regulations Part B - Fire Safety

Any ceiling system – 150mm void

- any metal ceiling system providing 150mm (min) ceiling void
- one layer of nominal 10 kg/m² gypsum-based board



6. Underfloor heating systems within screeds

Underfloor heating systems may be installed within the screed.

Appropriate screed depth cover to the heating system must be designed for – contact underfloor heating manufacturer for guidance.

Note: If required it is permissible to have an insulation layer between screed and slab (as shown in Option B).

OPTION A



OPTION B



7. Services - Service pipes through separating floor



CHECKLIST (to be completed by site manager /supervisor)

lef.				
	Item	Yes N (✔) (⊮	-	Inspected (initials & date)
I.	Is concrete slab density 2400 kg/m ³ (min)?		,	(
	Where blockwork inner leaves are adopted for the external (flanking) walls are they of the correct density?			
3.	Is concrete slab 175mm (min) thick?			
4.	Is inner leaf discontinuous between storeys?			
	Has ceiling system been installed in accordance with the manufacturer's instructions (where applicable)?			
6.	Is there a minimum ceiling void of 150mm?			
	Are all ceiling board joints sealed with tape or caulked with sealant?			
	Has the IsoRubber Top been bonded to the slab with IsoBond adhesive?			
9.	Is the IsoRubber Top fully covering the floor surface?			
	Are service pipes wrapped in quilt and boxed in with two layers of gypsum-based board, nominal 8 kg/m ² each layer			
11.	Is separating floor satisfactorily complete?			
	act details for technical assistance from Thermal Economics, manufacturer c phone: 01582 544255 Fax: 01582 429305 E-mail: tech			-economics.co.uk
Note	es (include details of any corrective action)			

Site manager/supervisor signature

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E-FC-11

Precast concrete plank

Screed laid on Icopal-MONARFLOOR® TRANQUILT® resilient layer



installation of the screed and resilient layer. Please contact Robust Details Limited for further information.



Sketch shows CT0 type ceiling treatment

2. Separating wall junction



Sketch shows CT0 type ceiling treatment

SYSTEM INSTALLATION

Sketch shows CT1 type ceiling treatment

The use of this screed resilient layer system **must** incorporate the following:

- 1) **3mm IsoRubber Base HP3** (resilient layer to be laid over entire floor area with minimum 50mm overlaps)
- 2) IsoEdge flanking strip
- 3) All joints taped



- IsoEdge flanking strip to be installed at all room perimeters. See manufacturer's guidance.
- See Section 4 for acceptable installation alternatives for 40mm proprietary screeds

From 1 January 2009, Robust Details Limited can only accept registration of this floor once the builder agrees to receive training from Thermal Economics on the installation of the screed and resilient layer. Please contact Robust Details Limited for further information.

Screed

Screed laid on Thermal Economics IsoRubber Base HP3 resilient layer

Ceiling

DO

- Butt planks tightly together
- Grout all joints between planks
- Fill all voids between walls and floor
- Ensure 3mm IsoRubber Base HP3 resilient layer is laid over the entire floor surface and has overlapped joints of 50mm sealed with tape. On no account should the screed come into contact with the floor slab. (see Section 4 for 40mm proprietary screeds)
- Ensure 3mm IsoRubber Base HP3 overlaps with IsoEdge flanking strip. On no account should screed come into contact with floor slab or perimeter walls
- Ensure the IsoEdge flanking strip isolates the skirting and wall linings. On no account should screed come into contact with the wall lining and skirting
- Ensure that only the correct blocks are used in the construction of external (flanking) walls, unless specifically referred to in the Handbook all blocks should be assumed to be solid (i.e. not hollow or cellular)
- Make sure ceiling treatment is installed in accordance with the manufacturer's instructions (where applicable)

Precast concrete plank

65mm (min) cement:sand screed or 40mm (min) proprietary screed of nominal 80 kg/m² mass

3mm IsoRubber Base HP3 layer with IsoEdge flanking

Precast concrete plank of 150mm (min) thickness and 300 kg/m² (min) mass

See section 3 for suitable

per unit area

per unit area

ceiling treatment

strip

E-FC-12



Sketch shows CT1 type ceiling treatment

2. Separating wall junction

Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) aggregate concrete block (1350-1600 kg/m3 or 1850-2300 kg/m3) or aircrete block (450-800 kg/m³)

IsoEdge flanking strip must overlap with IsoRubber resilient layer and isolate screed from perimeter walls and skirtings

IsoRubber resilient layer must have 50mm (min) overlapped joints and be sealed with tape

Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation

Concrete planks must be built into walls:

- walls must not be continuous between storeys
- planks must not abut inner leaf

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

Continuous horizontal ribbon of adhesive or IsoEdge ceiling strip

Nominal 8 kg/m² gypsum-based board or 13mm plaster



Sketch shows CT1 type ceiling treatment

E-FC-13

Precast concrete plank

Screed laid on InstaCoustic InstaLay 65 resilient layer ■

	- Screed	65mm (min) cement:sand screed			
	- Resilient layer	InstaLay 65 layer with InstaLay 65 edge strip			
	- Structural floor	Precast concrete plank of 150mm (min) thickness and 300 kg/m ² (min) mass per unit area			
Sketch shows CT0 type ceiling treatment	- Ceiling	See section 3 for suitable ceiling treatment which is dependent on floor plank depth			
SYSTEM INSTALLATION	DO				
The use of this screed resilient layer	Butt planks tightly together				
system must incorporate the following:	Grout all joints between planks				
1) InstaLay 65 (resilient layer to be laid	Fill all voids between walls and floor				
over entire floor area with minimum	Ensure InstaLay 65 resilient layer is laid				
50mm overlaps)	over the entire floor surface and has overlapped joints of 50mm sealed with				
2) InstaLay 65 edge strip	tape. On no account should the screed				
3) All joints taped	come into contact with the floor slab.				
InstaLay 65 edge strip	Ensure InstaLay 65 overlaps with				
Min. 50mm All joints overlap taped	InstaLay 65 edge strip. On no account should screed come into contact with floor slab or perimeter walls				
	Ensure the InstaLay 65 edge strip				
	isolates the skirting and wall linings. On no account should screed come into contact with the wall lining and skirting				
InstaLay 65 edge strip to be installed at all room perimeters. See manufacturer's	■ Ensure that or	Ensure that only the correct blocks are			
guidance.		onstruction of external			
		s, unless specifically the Handbook all blocks			
	should be ass	umed to be solid (i.e. not			
Robust Details Limited can only accept registration of	hollow or cellu				
this floor once the builder agrees to receive training from InstaCoustic on the installation of the screed and		Make sure ceiling treatment is installed in accordance with the manufacturer's			
resilient layer. Please contact Robust Details Limited for further information.		where applicable)			
	, v				

E-FC-13



Sketch shows CT0 type ceiling treatment

Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) aggregate concrete block (1350 kg/m³ to 1600 kg/m³ or 1850 -2300 kg/m³) or aircrete block (450-800 kg/m³)

InstaLay 65 edge strip must overlap with InstaLay 65 resilient layer and isolate screed from perimeter walls and skirtings

InstaLay 65 resilient layer must have 50mm (min) overlapped joints and be sealed with tape

Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation

Concrete planks must be built into walls:

- walls must not be continuous between storeys
- planks must not abut inner leaf

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

Continuous horizontal ribbon of adhesive

Nominal 8 kg/m² gypsum-based board or 13mm plaster



Sketch shows CT0 type ceiling treatment

2. Separating wall junction

E-FC-14

- Precast concrete plank
- Screed laid on Thermal Economics IsoRubber Code layer



E-FC-14



2. Separating wall junction

Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf (min 100mm) aggregate concrete block (1350 kg/m³ to 1600 kg/m³ or 1850 -2300 kg/m³) or aircrete block (450-800 kg/m³)

IsoEdge 6/260 flanking strip must overlap with IsoRubber resilient layer and isolate screed from perimeter walls and skirtings

IsoRubber Code layer must have 50mm (min) overlapped joints and be sealed with tape

Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation

Concrete planks must be built into walls:

- walls must not be continuous between storeys
- planks must not abut inner leaf

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

Isosonic ceiling strip

Continuous horizontal ribbon of adhesive

Nominal 8 kg/m² gypsum-based board or 13mm plaster



Sketch shows CT0 type ceiling treatment

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E-FC-15

Precast concrete plank

Screed laid on Regupol Quietlay resilient layer



Robust Details Limited can only accept registration of this floor once the builder agrees to receive training from CMS Danskin on the installation of the screed and resilient layer. Please contact Robust Details Limited for further information.



Sketch shows CT0 type ceiling treatment

2. Separating wall junction



Sketch shows CT0 type ceiling treatment

E-FC-16

3mm Thermal Economics IsoRubber CC3 ■

Precast concrete plank

Screed



E-FC-16

DO

- Butt planks tightly together
- Grout all joints between planks
- Fill all voids between walls and floor
- Ensure IsoRubber CC3 fully covers floor area
- Make sure ceiling treatment is installed in accordance with the manufacturer's instructions (where applicable)
- Ensure IsoRubber CC3 is bonded to screed with IsoBond adhesive





2. Separating wall junction



Sketch shows CT0 type ceiling treatment

Separating wall:

- if using robustdetails[®] for wall refer to Table 3a in introduction to select an appropriate Robust Detail separating wall
- if using wall requiring pre-completion testing seek specialist advice

3mm IsoRubber CC3 installed over whole floor area and between skirting and screed

Concrete planks to be built into wall:

- wall must not be continuous between storeys
- planks must not abut separating wall
- all voids between planks and blockwork filled with mortar or flexible sealant
- IsoSonic ceiling strip

robustdetails[®]