

Terry Harmony Specifying Guide

Ref: ED00001f 24/03/2009



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Terry 
total mobility solutions

CONTENTS

The Harmony Lift	3
End-user/Client and Environmental Considerations	4
Carriage Dimensions	6
Technical Specification	7
Harmony S (Std Sling) - Electrical Requirements	8
Harmony S (Short & Long Sling), L, W & LW - Electrical Requirements	9
Harmony C - Electrical Requirements	10
Lift Control Stations	11
Minimum Headroom Requirements and Cross Bar Heights	12
Loading Diagram	13
Specifying Infills	14
Guide Lines For Ceiling Fixings	15
Guide Lines for Wall Fixings	17
Aperture Details Harmony C	18
Aperture Details Harmony S.	19
Aperture Details Harmony W	20
Aperture Details Harmony L	21
Aperture Details Harmony LW	22
Double Joist Details	23
Enclosure and Fire Door Spacing	24
Terry Group Platform Lift Product Range	25

THE HARMONY LIFT

ED00002 24/03/2009

The Harmony lifts have been designed for use in a domestic environment in compliance with:

- EMC Specifications: 2004/108/EEC
- BSEN 55014-1:2006 for household appliances
- BSEN 55011:2007 for Light Industrial Use and Institutional Applications
- BSEN 61000
- BS5900:1999 Powered Domestic Lifts
- Low Voltage Directive 2006/95/EEC
- Machinery Directive 98/37/EEC

Compliance is only valid after installation and commissioning by an Authorised Engineer

Typical Installations

Harmony C



Harmony S



NOTES

END-USER/CLIENT AND ENVIRONMENTAL CONSIDERATIONS

ED00003a 24/03/2009

Lift Location & Suitability

- Is the lift be accessible by a person in a wheelchair at the upper and the lower level?
- Check the travel requirements against headroom available.
- Do any doors, cupboards, or wardrobe doors open into lift area?
- Does the client wheelchair fit in the lift? Do they intend changing it in the future?
- Does the door hand suit at both upper and lower level?
- Is the user capable of operating the controls?
- If the person can still walk what seating is required?
- Will the lift restrict the everyday use of the room in any way?
- Can furniture slot in around the lift? **Furniture and other obstacles should not be positioned less than 100mm away from moving parts of the lift.**
- Will the lift location allow easy access to other adaptations? E.g. Bathroom hoists etc.

UPDATE *

Power Pack Location

- Is the Power pack location acceptable to all parties?
- Will the power pack location restrict access if fitted in passageway etc?
- Will the Power pack be located internally –sound proofing to be specified?
- Will power pack be located adjacent to a neighbours property -sound proofing to be specified?
- Is the hydraulic pipe run acceptable? (If surface mounted, advise client of where the trunking will be run).

Structural Considerations

- Is both of the upper and lower floors level?
- Are the walls and lower floor strong enough to take the lift loadings?
- Will the cutting of the aperture affect the integrity of the floor?
- Are there any radiators/water or gas pipes adjacent to lift position? Any potential for pipe work fouling aperture?
- Does the Local Authority require a Building Notice?
- Who is submitting the Building Notice to Building Control?
- Does the Local Authority require double joisting in the lift area?
- Are guide infill panels or strips required at upper or lower level

Electrical Considerations

- Is meter location clearly highlighted on site plan?
- Is client aware of possible trunking run to lift power point position?
- Do electrical or TV aerial sockets have to be repositioned or blanked off?
- Are there any ceiling lights in the lift area that may foul the lift?
- Does the house have old wiring and is it earth bonded?
- Is there any wiring through the area where the aperture is to be formed?
- Is a card or coin meter currently fitted?

Installation Day Considerations

- What is access like to the house (Van parking and carrying lift parts)?
- What are the walls like for drilling in to? Will the wall accept expansion or resin anchors?
- Are positions of wall stations clearly identified?
- Is there an electrical supply for power tools?
- Will there be other contractors on site?
- Who is going to do the preparation work?
- Will the user be available for the lift demonstration and hand over?

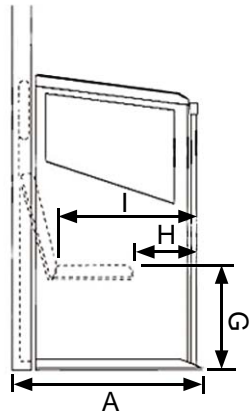
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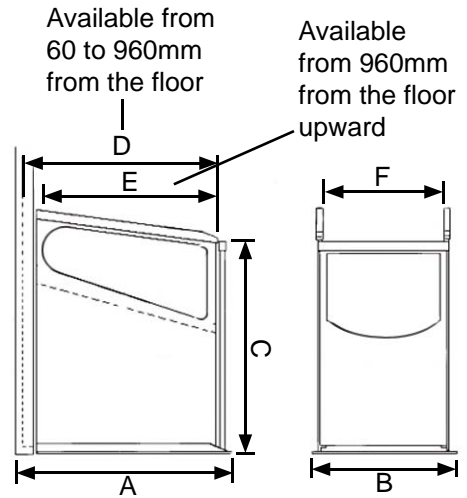
CARRIAGE DIMENSIONS

ED00004b 24/03/2009

Harmony C



Harmony S



Standard Capacities / Travel:

(All dimensions in mm)

Capacity:

- Wheelchair - 39 stone (250kg)
- Compact - 23 stone (150kg)

- Trapdoor - 39 Stone (250kg)
NB Maximum floor covering weight which can be applied to trapdoor 1 Stone (6.36kg) evenly distributed

Travel:

3 metres.

Special Options Dimension / Travel:

Travel:

To 3.5 metres.

Dimensions (mm)

MODEL	A	B	C	D	E	F	G	H	I
Harmony C	915	710				560	500	290	680
Harmony S	1265	860	1225	1170	1030	710			
Harmony W	1265	1010	1225	1170	1030	860			
Harmony L	1465	860	1225	1370	1230	710			
Harmony LW	1465	1010	1225	1370	1230	860			

NOTE Min dimension from back wall and any side wall is 50mm

TECHNICAL SPECIFICATION

ED00005a 24/03/2009

NOTES

Hydraulic drive system provides the following benefits:

- Exceptionally smooth and quiet operation by virtue of remote power unit
- Inherent safety system to guard against free fall of car
- Flexibility of installation – minimal headroom required in first floor room and guides can be installed across windows or against non-load bearing walls

Standard features are as follows:

- Manufactured and tested to BS5900.1991. Report No. 160561. Warrington Fire Research Centre 4.8.92. Trapdoor-Report No.56875. Underpan -Report No. 56874
- Half hour fire integrity maintained in ceiling/floor irrespective of whether lift is parked upstairs or downstairs
- Control stations in car and at both floors which include direction, stop, key locking, car light and door open/close controls
- Powered door on wheelchair version
- In event of power failure battery back up system allows operation of car in the down direction by normal controls with all safety systems in operation
- Wipe-clean finish
- Colour RAL9010 (white)
- The car is fitted with a light which switches on when lift is called

* UPDATE

Available options:

- Separate sliding seat or fixed seat in compact model
- Folding seat or perch seat in wheelchair version
- A telephone can be fitted in the lift car
- A range of trim colours
- Special car sizes in wheelchair model 200mm longer, 150mm wider or both
- Manual door on wheelchair model
- Warranty and service options
- High humidity option

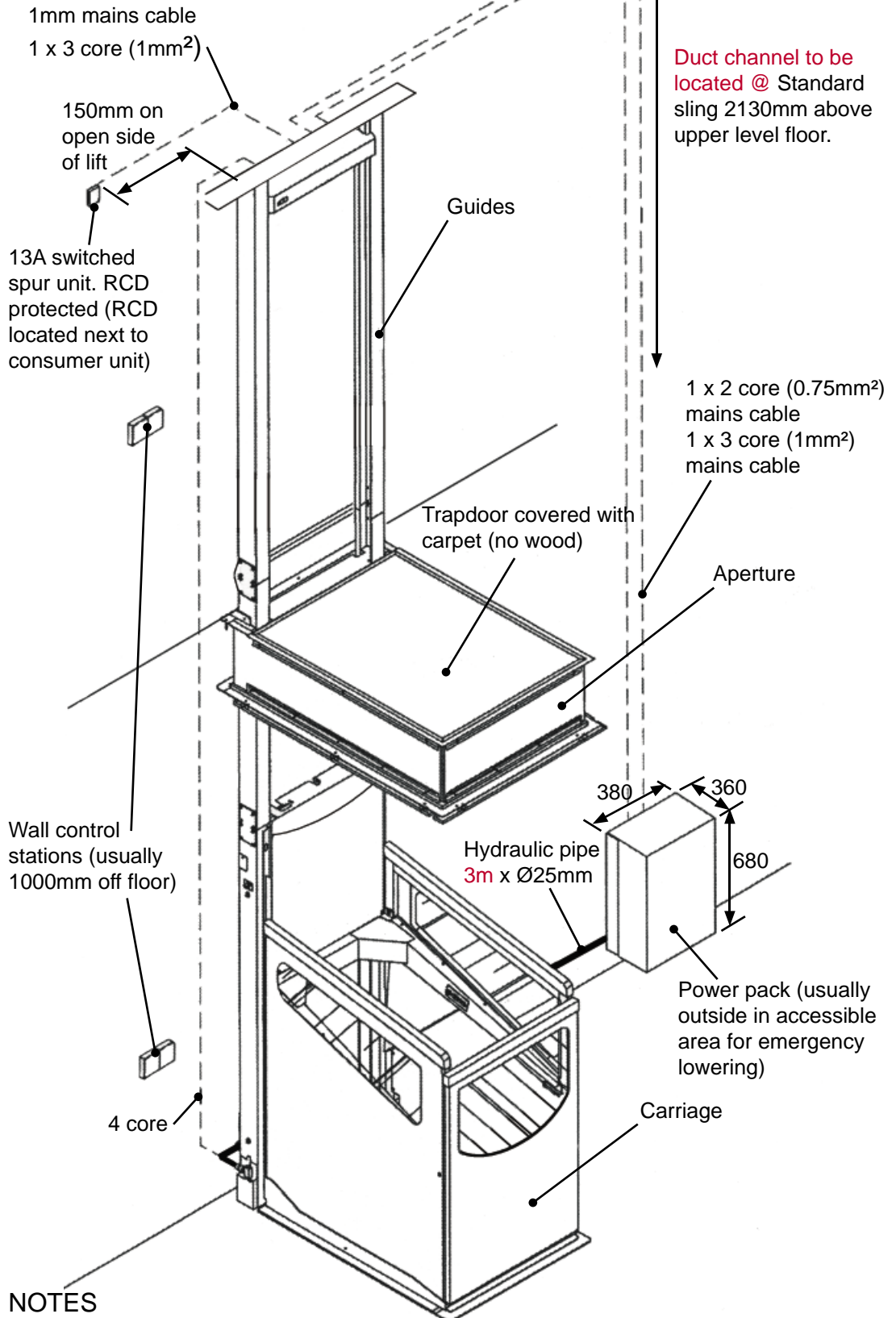
NOTES

HARMONY S (STD SLING) - ELECTRICAL REQUIREMENTS

ED00023 24/03/2009



Attention. Please be aware that phase 2 Harmony Lift details are in the Specifying Guide ED00060



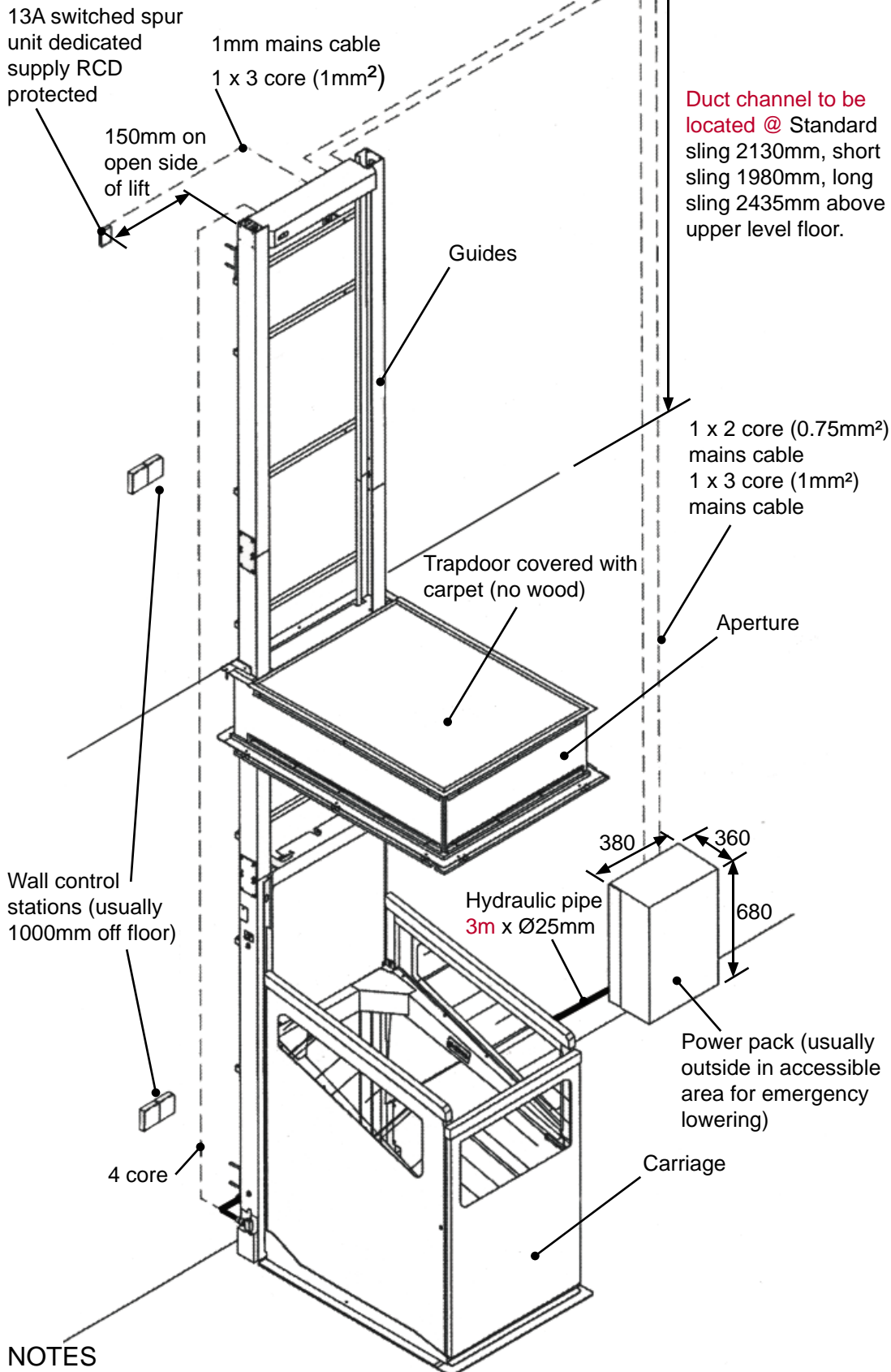
NOTES

- All wires sunk in the wall must travel either outside the aperture area or the centre of the wall.
- If drilling hole through wall to powerpack then must be 200mm off the floor, 50mm to the left of the aperture line and 45mm diameter hole if straight, 65mm diameter if swept elbows with waste pipe through the hole.

HARMONY S (SHORT & LONG SLING), L, W & LW - ELECTRICAL REQUIREMENTS

ED00006a 24/03/2009

NOTES



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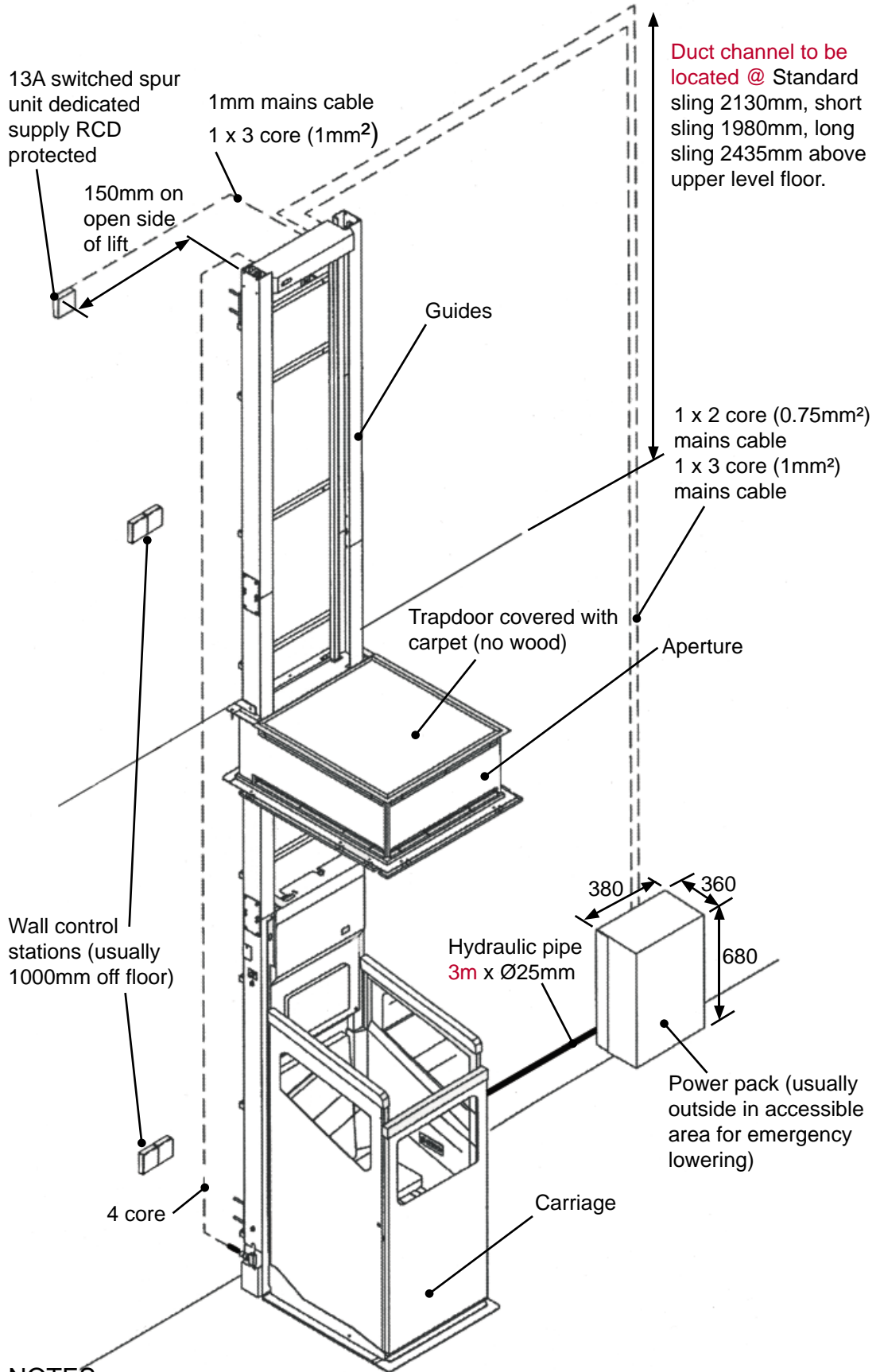
- All wires sunk in the wall must travel either outside the aperture area or the centre of the wall.
- If drilling hole through wall to powerpack then must be 200mm off the floor, 50mm to the left of the aperture line and 45mm diameter hole if straight, 65mm diameter if swept elbows with waste pipe through the hole.

NOTES

HARMONY C - ELECTRICAL REQUIREMENTS

ED00007a 24/03/2009

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NOTES

- All wires sunk in the wall must travel either outside the aperture area or the centre of the wall.
- If drilling hole through wall to powerpack then must be 200mm off the floor, 50mm to the left of the aperture line and 45mm diameter hole if straight, 65mm diameter if swept elbows, with waste pipe through the hole.

LIFT CONTROL STATIONS

ED00008a 24/03/2009

NOTES



Control stations consisting of up, down, stop, and door are provided at each floor served.



Up, down, stop, door and key controls are fitted inside the car. The key lock isolates only the control to which its fitted. Provided the door is closed the red indicator next to the key switch illuminates when the control station is active.

The Harmony S, L, W & LW door is automatic and should only be opened by pressing the "DOOR" button on one of the control stations. Do not push or pull the door as it may result in damage to the installation.

The Harmony C lift has a manual door, so the door controls do not apply. In order for the lift to operate the door should be closed.

In both lifts the door can be released by use of an emergency door release key. Always keep the release key in a safe place in or near to the lift.

The light switches on automatically when any call button is pressed and will automatically turn off after a few minutes.

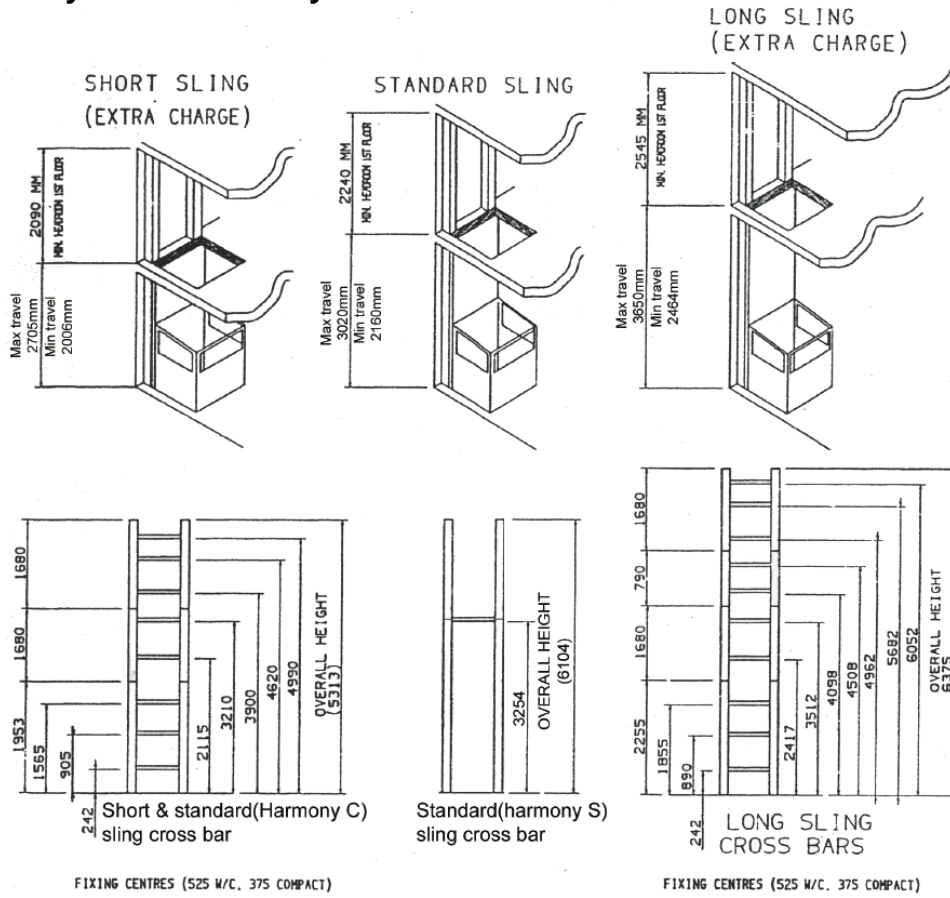
The red stop button on the control station will stop the lift when pressed. Once the lift has stopped it cannot be re-started for 3 seconds. The lift will then continue to operate as normal.

NOTES

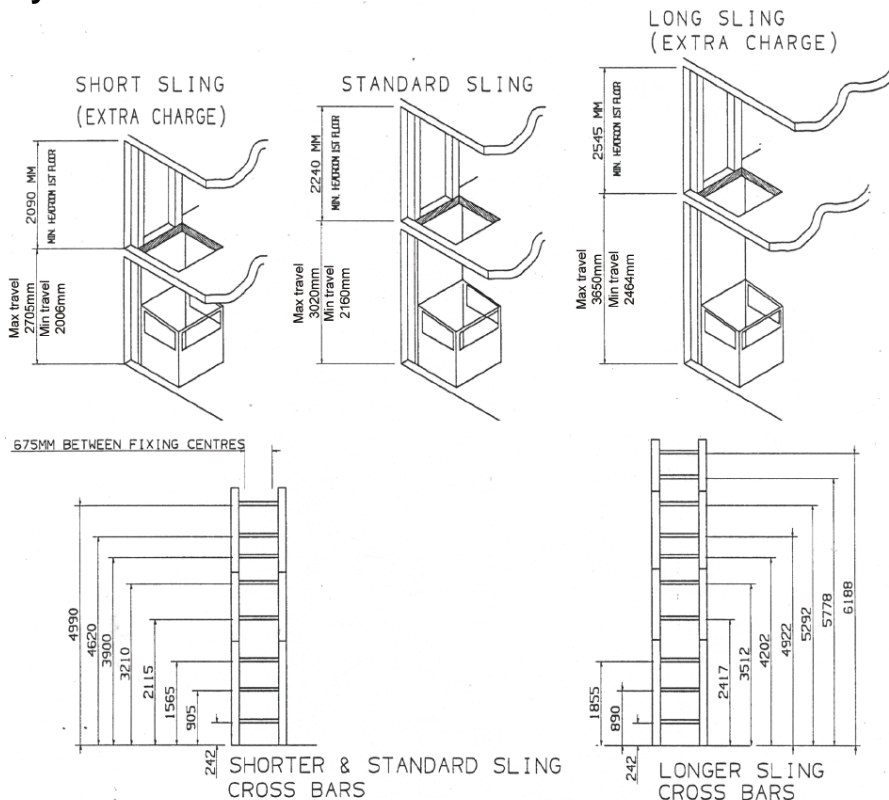
MINIMUM HEADROOM REQUIREMENTS AND CROSS BAR HEIGHTS

ED00009a 24/03/2009

Harmony S and Harmony C versions



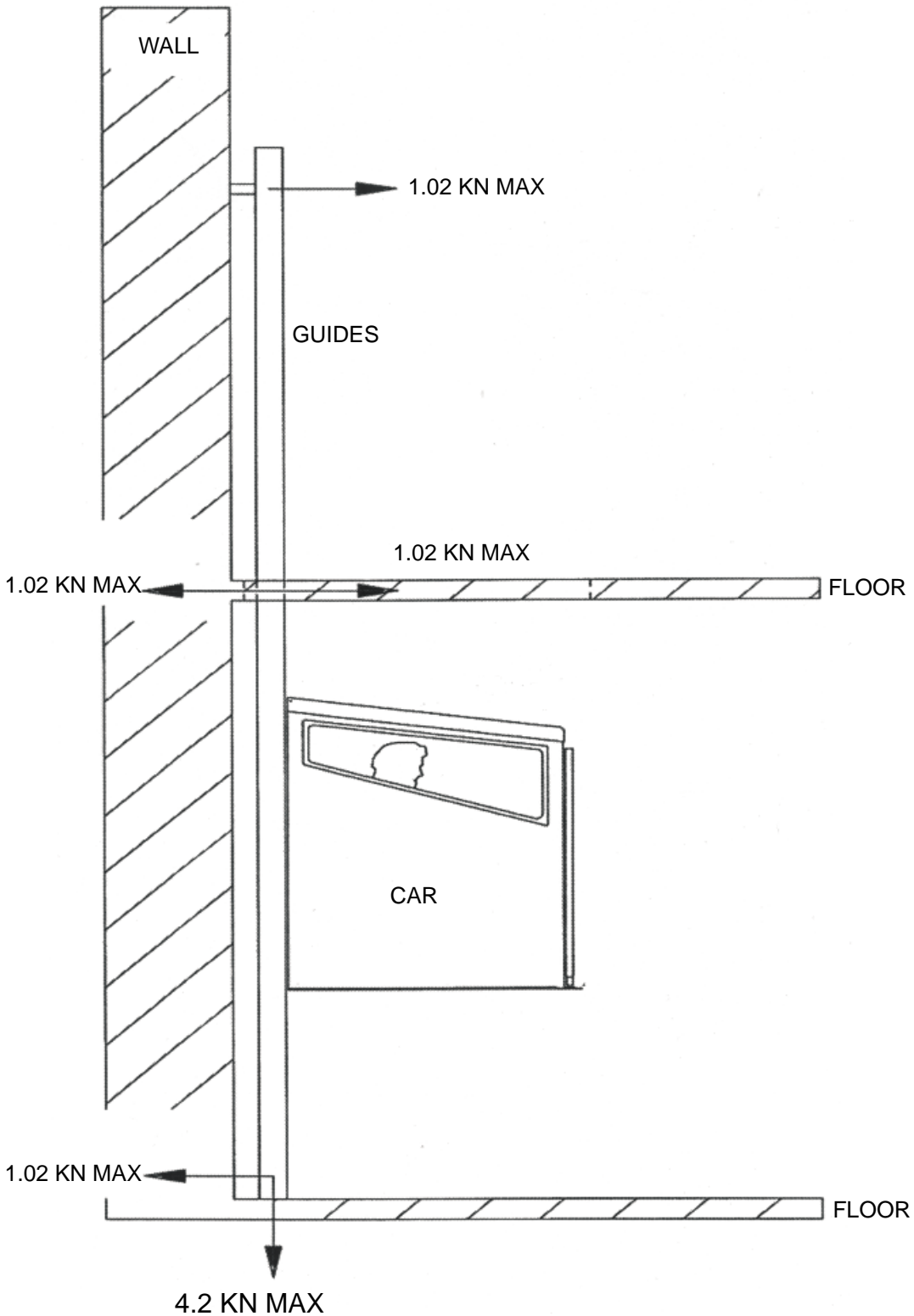
Harmony W & LW version



LOADING DIAGRAM

ED00010 12/02/2007

NOTES

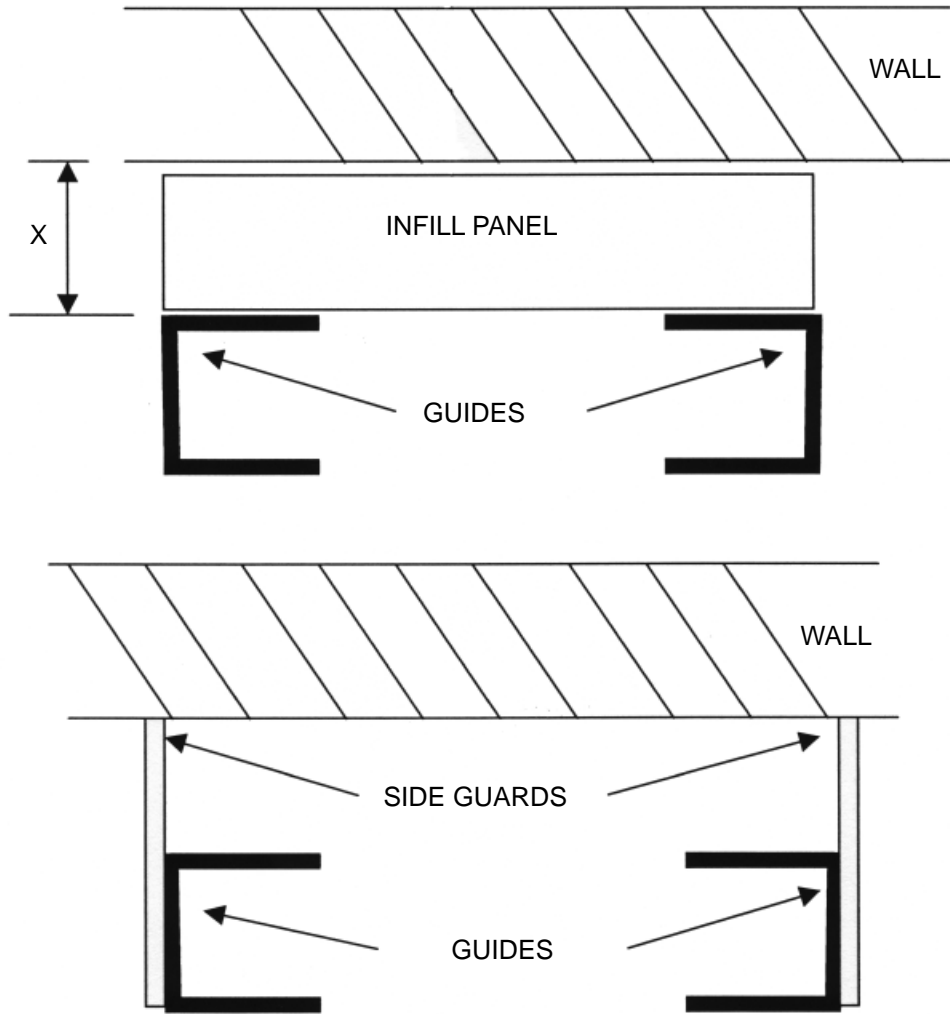


(THIS FORCE IS SPREAD ACROSS THE TOTAL SURFACE AREA OF THE BASE FRAME (920 x 110mm - Standard Wheelchair model, 620 x 110mm Compact Model)).

NOTES

SPECIFYING INFILLS

ED00011 12/02/2007



WINDOW OBSTRUCTED BY LIFT	DISTANCE (X) FROM WALL LESS THAN 4"	DISTANCE (X) FROM WALL 4-8"	DISTANCE (X) FROM WALL MORE THAN 8"	TYPE OF INFILL
YES	YES	NO	NO	* NONE OR INFILL PANEL
YES	NO	YES	NO	PERSPEX INFILL PANEL
YES	NO	NO	YES	PERSPEX INFILL PANEL
NO	YES	NO	NO	* NONE OR POLYPROPYLENE SIDE GUARD
NO	NO	YES	NO	POLYPROPYLENE SIDE GUARD
NO	NO	NO	YES	PERSPEX OR MDF INFILL PANEL

***NOTE:** The RSM must *always* make their own risk assessment dependent on other occupants within the house and specify suitable protection

GUIDE LINES FOR CEILING FIXINGS

ED00012a 24/03/2009

NOTES

When it is not possible to provide the recommended wall fixings then the guides should be secured to the ceiling either using a ceiling cap or a pair of ceiling straps, dependant upon upper floor joist direction (see diagram below).

In both cases it is essential that the straps or caps are secured to ceiling joists of the upper floor that are capable of supporting the loading details detailed on the loading diagram (Page 12).

When using ceiling fixings special attention needs to be taken of the overall height of the guide arrangements compared with the actual overall height (ground floor to upper level ceiling height).

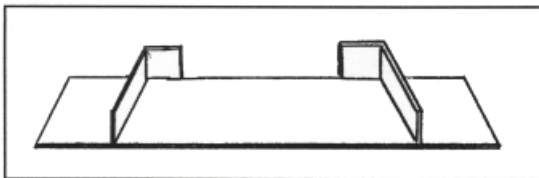
Sling Design	Overall Guide Height
Short	4858mm
Standard	5313mm (6104mm Standard carriage and standard sling only)
Long	6375mm

If the overall height of the guides exceed the actual height available then it will be necessary to reduce the length of the top guide on site.

For short and standard sling if the actual overall height available exceeds the overall height of the guides then a top guide extension piece is required to extend the guides to the ceiling of the upper floor.

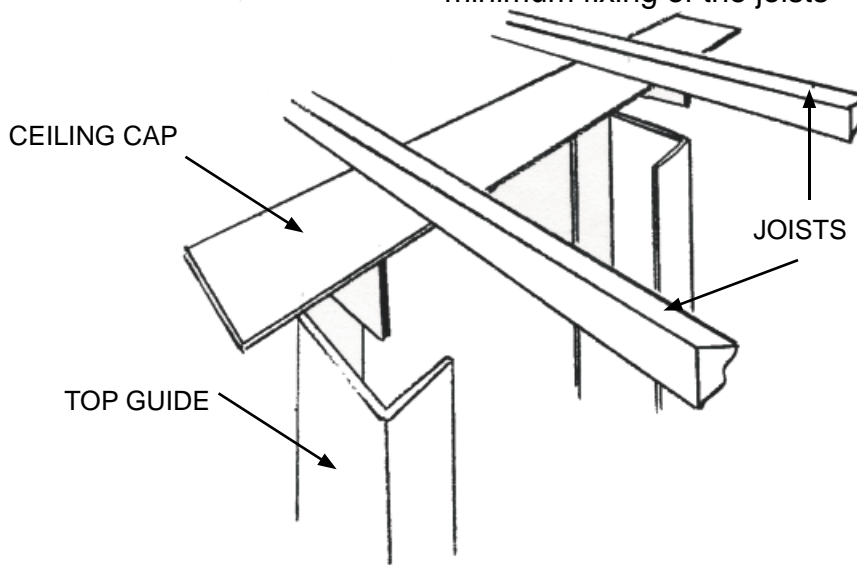
Please refer to the Terry Group when ceiling fixings are required and actual overall height available exceeds overall guide height

Ceiling Cap



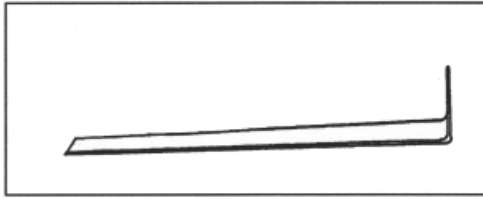
These are used when the upper floor ceiling joists are running perpendicular to the wall against which the lift guides are positioned

The ceiling cap is of sufficient length to normally ensure a minimum fixing of the joists



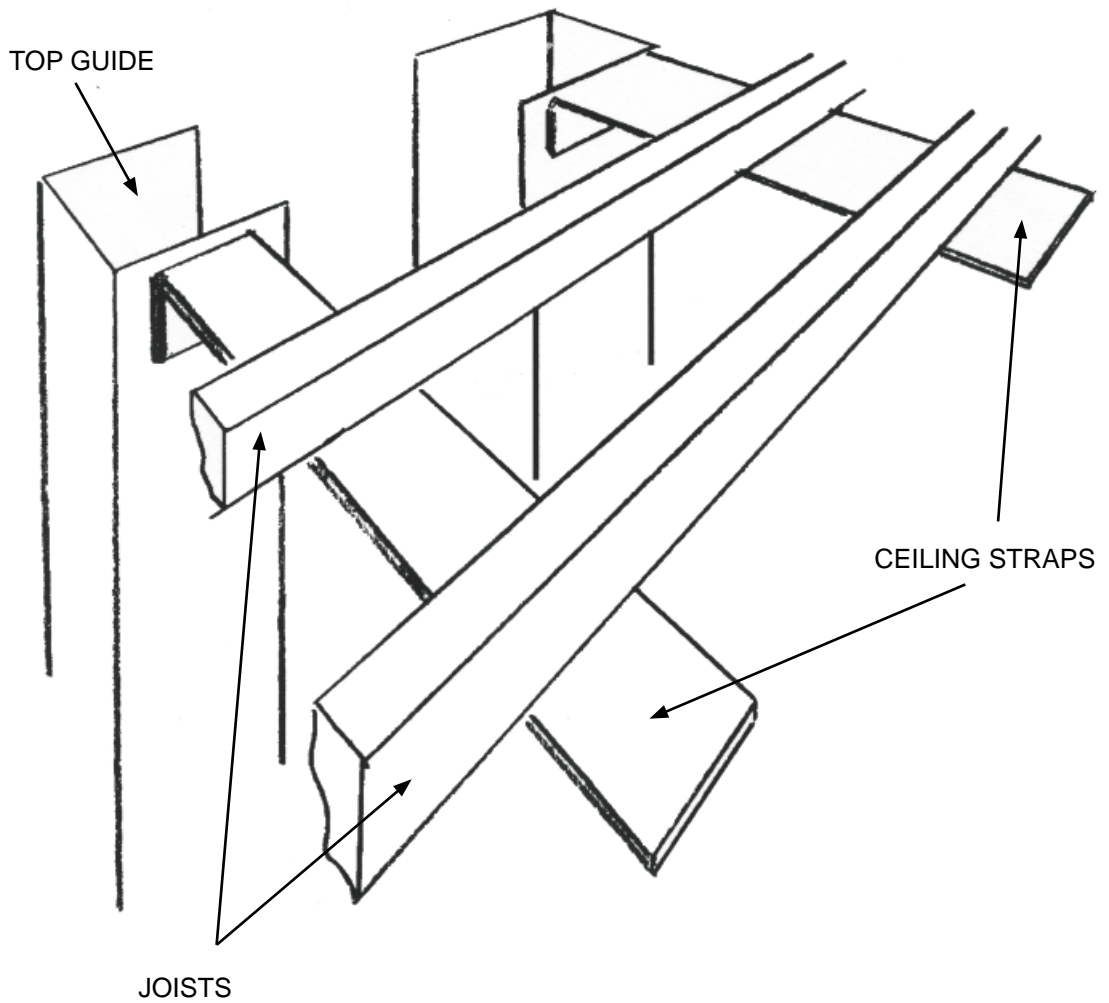
NOTES

Ceiling Straps



These are used when the upper flooring ceiling joists are running parallel to the wall against which the lift guides are positioned.

The ceiling straps are of sufficient length to normally ensure a minimum fixing to two joists



Guide Lines for Wall Fixings

ED00013 12/02/2007

NOTES

General

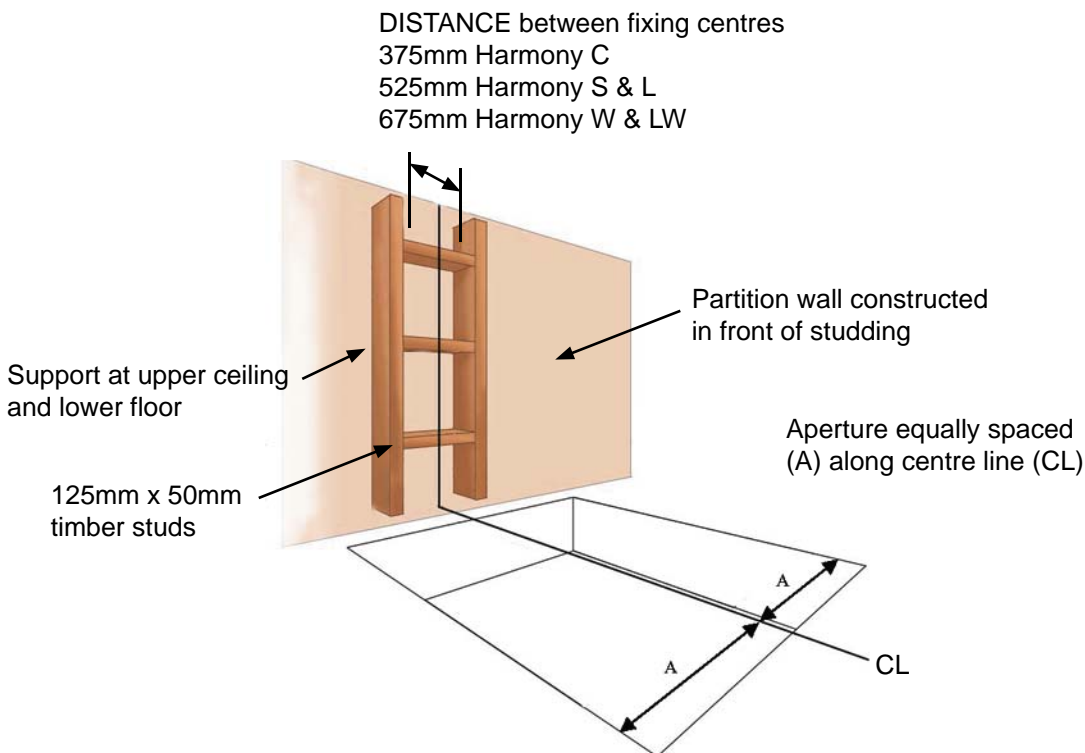
If it not possible to use the uppermost cross member of the top guide to secure the guides E.G. due to window or within 6" of top wall, then 4 fixings must be used through lower cross members.

Solid Wall

It is recommended that whenever possible guide wall fixings are made to a structurally sound wall of 9" thickness.

Wooden Studded Wall

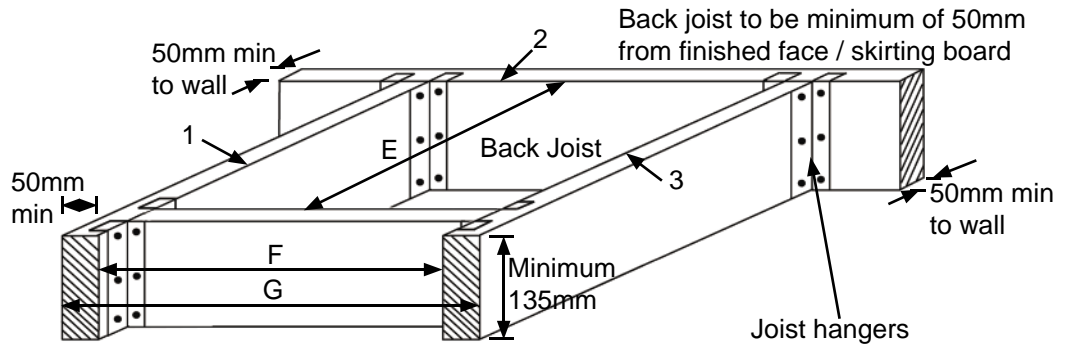
- a) If fixing to a wooded studded wall a minimum of 125mm x 50mm vertical studding is required. The studded wall should be secured at both the lower level and upper ceiling position to support the loadings' as detailed in the Harmony Lift Installation Manual.
- b) To ensure adequate fixing the vertical studs in the aperture area should be spaced to correspond with the distance between fixing centres as detailed on the drawing below.**
- c) The aperture should be positioned centered on the line between the two vertical lengths of studding to which the guides are to be secured.



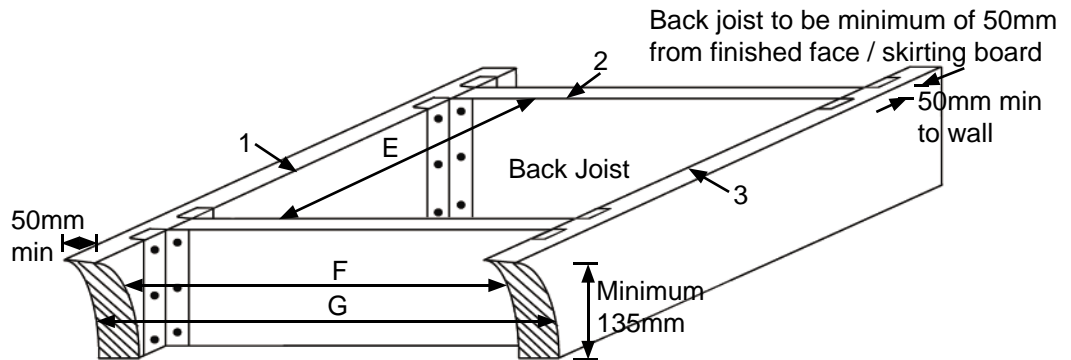
NOTES

APERTURE DETAILS HARMONY C

ED00015c 24/03/2009



Joist ends should ideally be trimmed onto other joist or supported on wall with joist hangers



Joist ends should ideally be trimmed onto other joist or supported on wall with joist hangers

Edges 1, 2 & 3 to be a minimum of 50mm from any finished wall / obstruction

Note A:

The Rear Wall joist must be installed at all times. It provides the main load bearing attachment to the supporting wall or the partition studding, and support for the aperture. The joists should be fastened together with "joist hangers".

Note B:

The joists should ingress any surrounding partition by a minimum of 100mm.

Note C:

All joists to be fitted perfectly level in all planes. The top surface of the joists must be perfectly level on all 4 timbers

Dimensions (mm)			
Lift Type	E	F	G
Harmony C	950	745	845

* UPDATE

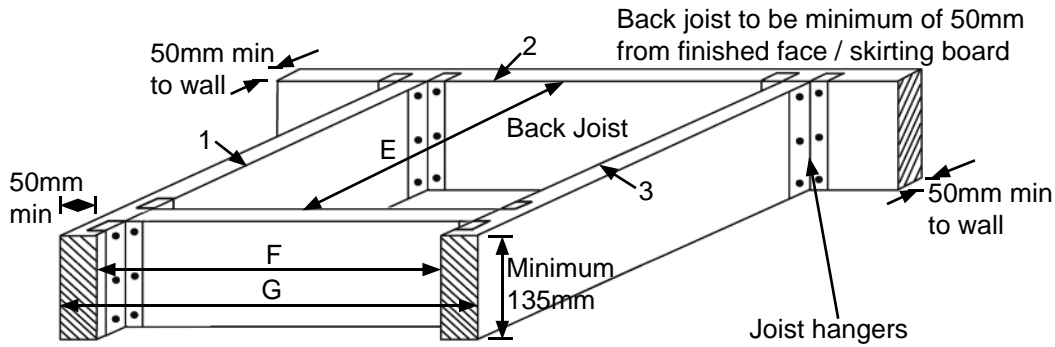
Lift Tensator springs:

Floor thickness	Tensator spring required
125 - 400 mm max	Standard
125 - 800 mm max	Long heavy duty

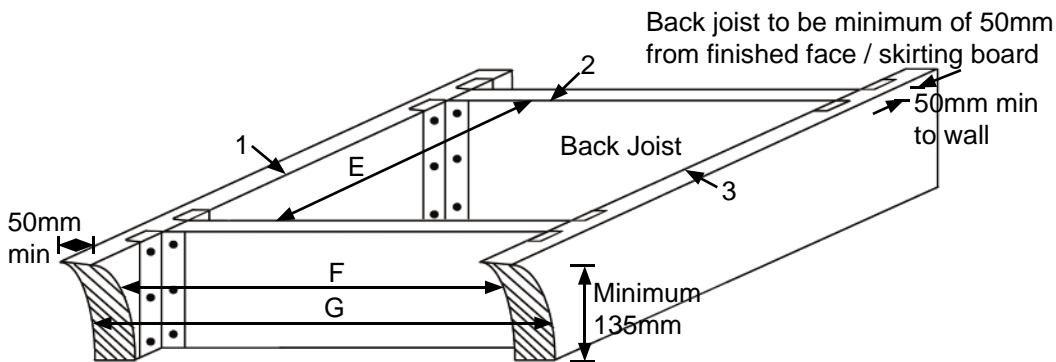
APERTURE DETAILS HARMONY S.

ED00019b 24/03/2009

NOTES



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Note C:

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Dimensions (mm)			
Lift Type	E	F	G
Harmony S	1290	910	1010

* UPDATE

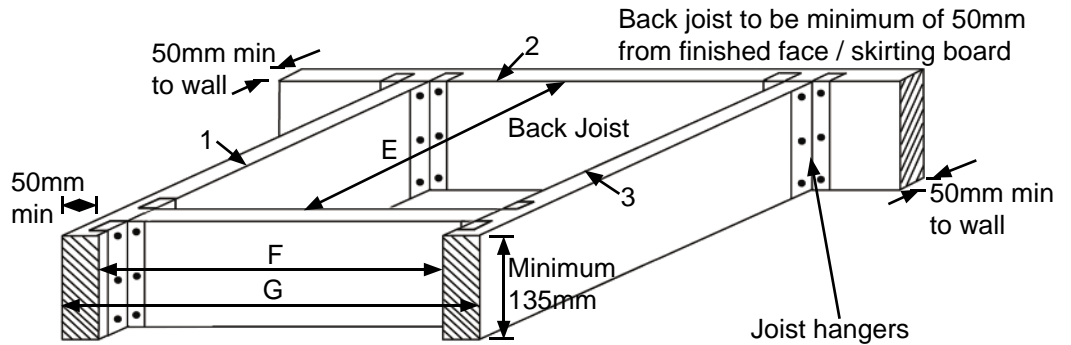
Lift Tensator springs:

Floor thickness	Tensator spring required
125 - 400 mm max	Standard
125 - 800 mm max	Long heavy duty

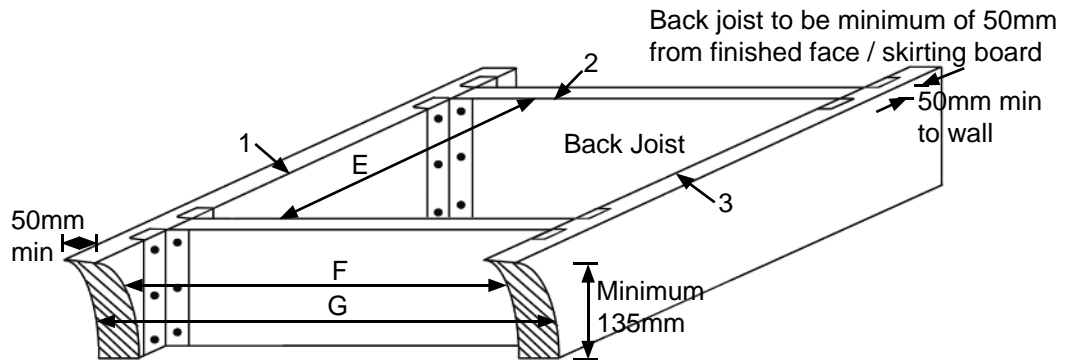
NOTES

APERTURE DETAILS HARMONY W

ED00020b 24/03/2009



Joist ends should ideally be trimmed onto other joist or supported on wall with joist hangers



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Edges 1, 2 & 3 to be a minimum of 50mm from any finished wall / obstruction

Note A:

The Rear Wall joist must be installed at all times. It provides the main load bearing attachment to the supporting wall or the partition studding, and support for the aperture. The joists should be fastened together with "joist hangers".

Note B:

The joists should ingress any surrounding partition by a minimum of 100mm.

Note C:

All joists to be fitted perfectly level in all planes. The top surface of the joists must be perfectly level on all 4 timbers

Dimensions (mm)			
Lift Type	E	F	G
Harmony W	1300	1045	1145

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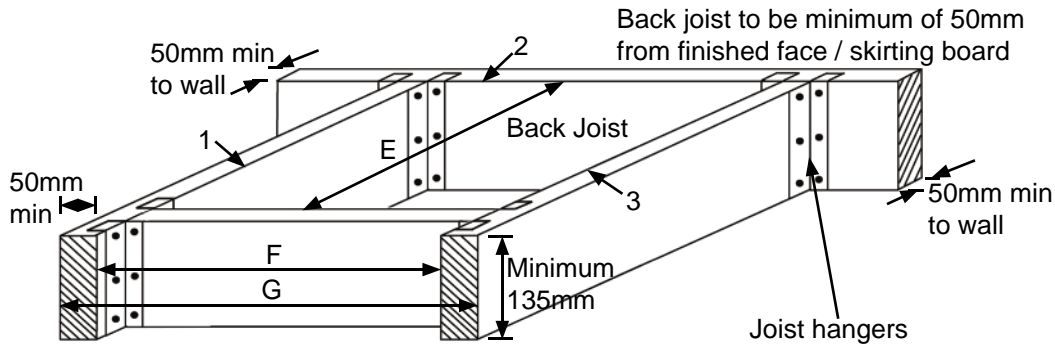
Lift Tensator springs:

Floor thickness	Tensator spring required
125 - 400 mm max	Heavy duty
125 - 800 mm max	Long heavy duty

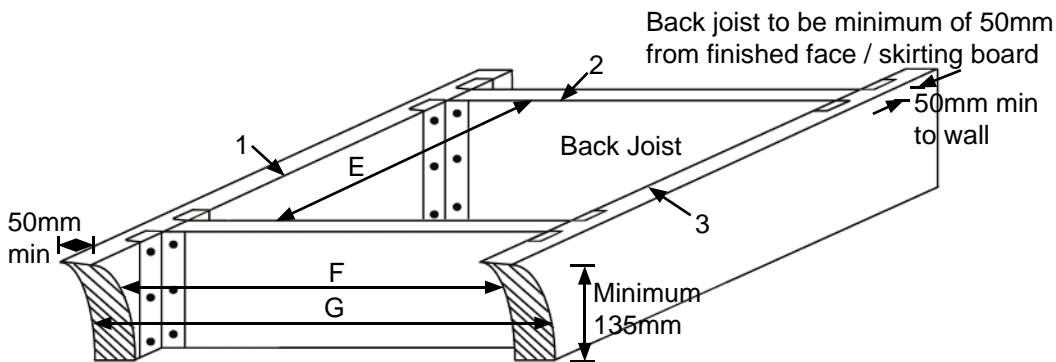
APERTURE DETAILS HARMONY L

ED00021b 24/03/2009

NOTES



Joist ends should ideally be trimmed onto other joist or supported on wall with joist hangers



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Edges 1, 2 & 3 to be a minimum of 50mm from any finished wall /obstruction

Note A:

The Rear Wall joist must be installed at all times. It provides the main load bearing attachment to the supporting wall or the partition studding, and support for the aperture. The joists should be fastened together with "joist hangers".

Note B:

The joists should ingress any surrounding partition by a minimum of 100mm.

Note C:

All joists to be fitted perfectly level in all planes. The top surface of the joists must be perfectly level on all 4 timbers

Dimensions (mm)			
Lift Type	E	F	G
Harmony L	1500	900	1000

Lift Tensator springs:

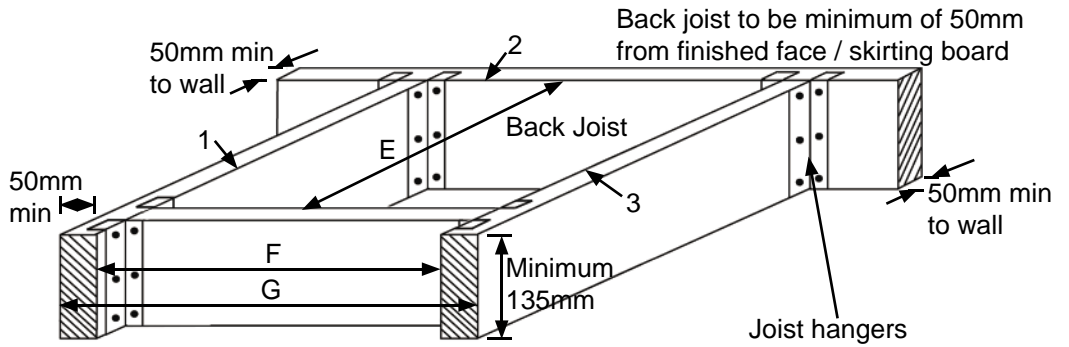
Floor thickness	Tensator spring required
125 - 400 mm max	Heavy duty
125 - 800 mm max	Long heavy duty

* UPDATE

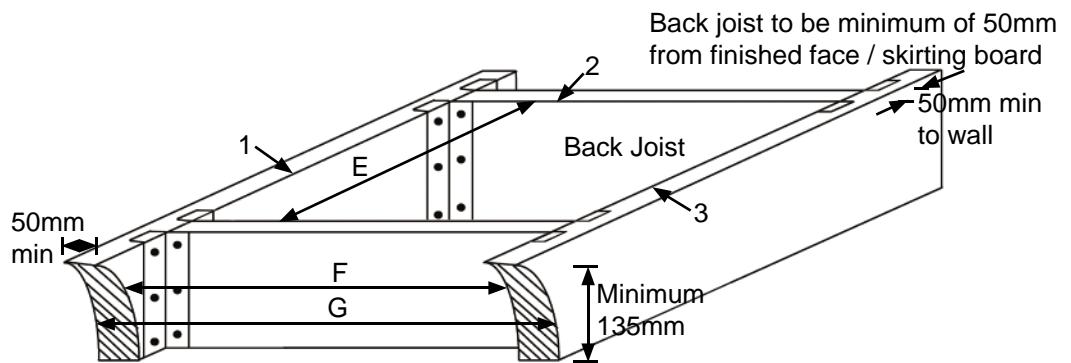
NOTES

APERTURE DETAILS HARMONY LW

ED00022b 24/03/2009



Joist ends should ideally be trimmed onto other joist or supported on wall with joist hangers



Joist ends should ideally be trimmed onto other joist or supported on wall with joist hangers

Edges 1, 2 & 3 to be a minimum of 50mm from any finished wall /obstruction

Note A:

The Rear Wall joist must be installed at all times. It provides the main load bearing attachment to the supporting wall or the partition studding, and support for the aperture. The joists should be fastened together with "joist hangers".

Note B:

The joists should ingress any surrounding partition by a minimum of 100mm.

Note C:

All joists to be fitted perfectly level in all planes. The top surface of the joists must be perfectly level on all 4 timbers

Dimensions (mm)			
Lift Type	E	F	G
Harmony LW	1500	1045	1145

* UPDATE

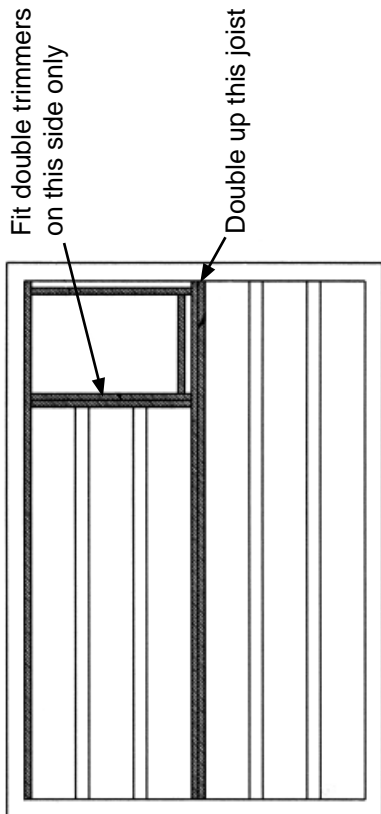
Lift Tensator springs:

Floor thickness	Tensator spring required
125 - 400 mm max	Heavy duty
125 - 800 mm max	Long heavy duty

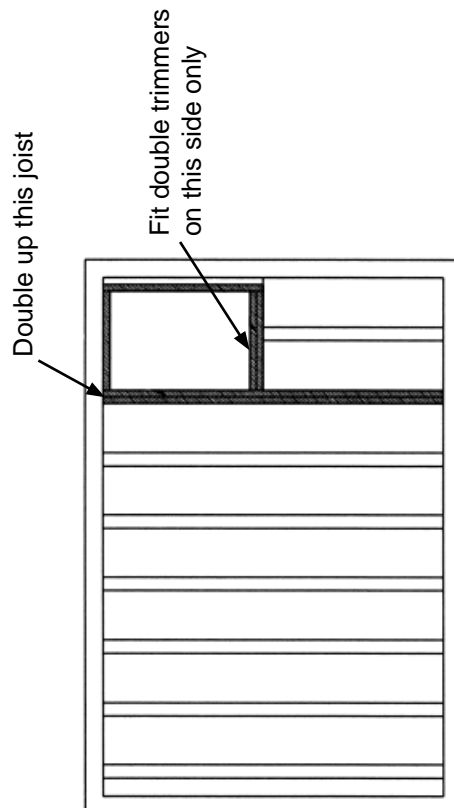
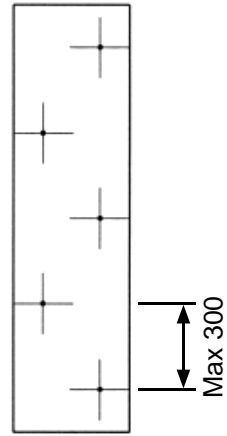
DOUBLE JOIST DETAILS

ED00016 12/02/2007

NOTES



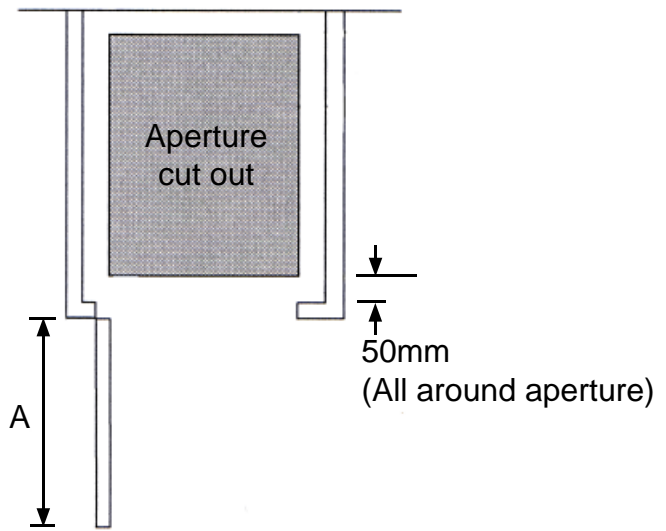
Fit an additional joist of the same size, onto the first full joist, i.e. double joist. This must be bolted to the original at max 300mm centres for the full length as below, use M12 bolts, with the ends secured into the supporting walls.



NOTES

ENCLOSURE AND FIRE DOOR SPACING

ED00018 12/02/2007



For aperture size please see page 18

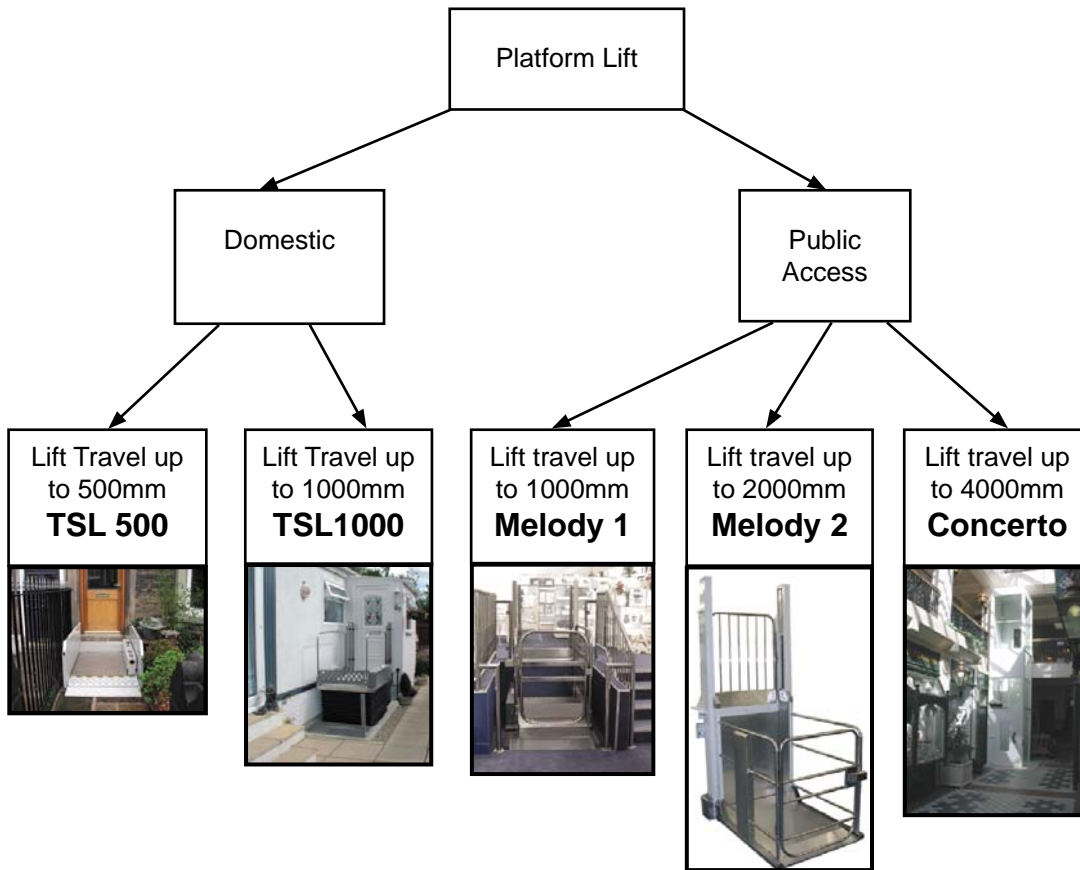
Clear door opening (A) to be min of aperture width.

1/2 hr fire rated door.

Offset door further to the left or right depending on whether the lift is right hand or left hand, to allow clearance for lift door opening.

TERRY GROUP PLATFORM LIFT PRODUCT RANGE

NOTES



Other products

Wheelchair stairlifts suitable for public access



Harmony domestic vertical lift (seated and wheelchair)

