

# PRODUCT PERFORMANCE TABLES

## Guarantee

CCF guarantee that all combinations of Tradeline stud and track dry lining products specifically detailed in the product performance tables in the CCF Tradeline Metal Sections for Dry Lining, Ceiling and Wall Lining Applications brochure will meet the relevant British Standards for metal stud and track products providing the plasterboard used conforms to BS1230:1994 and the system is installed in accordance with all British Standards and industry codes of practice and industry best practice.

The same conditions as above apply to the Tradeline MF System.

The relevant British Standards applicable to the Tradeline range of products are highlighted in this brochure on page 47.

## Testing Facilities

The Tradeline range of dry lining and ceiling products have been independently tested or assessed by accredited laboratories.

This document comprises of a collation of data carried out using a number of different testing facilities.

Facilities used

- BRE Garston - Fire Acoustic & Mechanical
- BTC East Leake - Fire & Acoustic
- Salford University - Acoustic & Mechanical
- Strathclyde University - Mechanical
- WFRC Warrington - Fire
- Aycliffe Research - Fire
- SRL Sudbury - Acoustic



For further information on the individual tests or to see where the test or assessment was carried out please quote the certification references.

All sound insulation data is based on laboratory evaluation of the building element in isolation and cannot reproduce your installed local conditions.

The actual tests carried out are used to offer an order of magnitude comparison for the performance of the various systems. Sound insulation on site is a function of the partition chosen and the associated structures in which it is installed. We cannot take any responsibility for overall design and we would advise that specialist advice is sought at an early stage of design.

All test data and system specifications are for systems constructed with materials and components as shown. The inclusion of other components without prior approval or constructed on site contrary to this document will invalidate test certification and system performance.

## Partitions using Resilient Bar

	70mm C Stud spaced at 600mm centres with Resilient Bar fixed perpendicular to the studs one side only at 600mm centres. Two layers of 12.5mm Sound Resistant wallboard. 50mm APR.	70mm C Stud spaced at 600mm centres with Resilient Bar fixed perpendicular to the studs one side only at 600mm centres. Two layers of 15mm Sound Resistant wallboard. 50mm APR.	70mm C Stud spaced at 600mm centres with Resilient Bar fixed perpendicular to the studs one side only at 600mm centres. Two layers of 15mm Sound Resistant wallboard. 50mm APR.	70mm C Stud spaced at 600mm centres with Resilient Bar fixed perpendicular to the studs one side only at 600mm centres. Inner layers of 17mm standard plasterboard outer layer 12.5mm standard plasterboard. 50mm APR.	70mm C Stud spaced at 600mm centres with Resilient Bar fixed perpendicular to the studs one side only at 600mm centres. Two layers of 15mm Sound Resistant wallboard. 50mm APR.	70mm C Stud with Resilient Bar both sides only clad with inner layer of 15mm Sound Resistant Plasterboard and outer layer of 12.5mm Impact Resistant Plasterboard infilled with 50mm APR.	70mm C Stud with Resilient Bar both sides only clad with inner layer of 15mm Sound Resistant Plasterboard and outer layer of 12.5mm Impact Resistant Plasterboard infilled with 50mm APR.
Stud Width mm	70	70	70	70	70	70	70
Stud Reference	PS70	PS70	PS70	PS70	PS70		
Part Grade BS 5234	Severe Duty	Severe Duty	Severe Duty	Severe Duty	Severe Duty	Severe Duty	Severe Duty
Max Height m	4	4.2	4.2	4.2	4.2	4.1	4.1
Nom Weight kg/m <sup>2</sup>	45	53	51	49	53	52	53
Nom Width mm	137	147	147	150	164	142	159
Fire Resistance min	60	90	120	60	90	90	90
Sound Insulation RwdB	59	61	62	63	63	58	63
Reference	RB004	RB001	RB002	RB003	RB005	RB006	RB007



### Plasterboard Fixing Centres

For all partitions i.e. C Studs, I Studs, Resilient Bar, Wall Liner and Wall Furring the following applies:-

#### Single Layer Installations

Plasterboard must be fixed at 300mm maximum centres to the metal framework with the appropriate length screw.

#### Double Layer Installations

Inner layers can be fixed at 300mm centres but outer layers must be fixed at 300mm centres to the metal framework with the appropriate length screw.

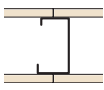
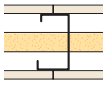
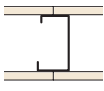
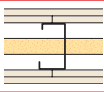
#### Fixing of Floor and Ceiling Tracks

All tracks must be secured to the floor and ceiling in the centre of the profile at 600mm centres with suitable fixings. For 94mm and 148mm tracks we recommend two rows of staggered fixings at 600mm centres.

#### Partition Brace

For fixing of Partition Brace or for joining stud to track (if required) it is recommended to use wafer head screws.

### 48mm and 50mm C Stud spaced at 600mm centres

Part Grade	Max Height	Nominal Weight	Nominal Width	Fire Resistance	Sound Insulation No Infill RwdB	Sound Insulation With Infill RwdB	Single Layer		Double Layer		Certification Reference
							12.5mm	15mm	12.5m	15mm	
BS 5234	m	Kg/m <sup>2</sup>	mm	mins							
	MD	2.5	19	75	30	34	S				5001
	HD	2.8	26	80	30	39		SR			5002
	MD	2.5	22	75	30	38	SR				5003
	HD	2.5	26	75	30	39	IR				5004
	HD	2.8	25	80	60	37		FR			5005
	MD	2.5	20	75	30		S				5006
	MD	2.5	22	75	30		FR				5007
	MD	2.5	22	75	30		SR				5008
	HD	2.5	26	75	30		IR				5009
	HD	2.8	27	80	30			SR			5022
	HD	2.8	26	80	60			FR			5010
	HD	2.8	27	80	30			SR			5030
	SD	3.4	37	100	60	43			S		5011
	SD	3.4	39	100	90	45			S/FR		5012
	SD	3.4	43	100	60	48			SR		5013
	SD	3.7	52	110	90	48				SR	5014
	SD	3.4	41	100	120	45			FR		5015
	SD	3.4	38	100	60		49		S		5016
	SD	3.4	43	100	60		54		SR		5017
	SD	3.7	52	110	90		55		SR		5018
	MD	3	20	76	30		S				BOXED STUDS
	SD	3.7	38	101	60	42			S		BOXED STUDS
	SD	3.7	38	101	60		48		S		BOXED STUDS

Note: Fire resistance and sound insulation performance figures apply laboratory test on elements imperforate partitions. Fire resistance information is based on the results of tests carried out to BS 476 : part 22 1987 or assessments based on these tests. Sound insulation is based on the results of tests carried out to BS EN ISO 140-3 : 1995. Single figure ratings (RW) have been calculated to BS EN ISO 717-1 : 1997. Some of the more recent fire tests have been conducted to European standard BS EN 1364-1 : 1999 which is actually more stringent than the existing British Standard BS 476.

All Studs spaced at 600mm centres. All studs are single unless stated as BOXED or TWIN FRAME construction Cavity infills are 25mm Acoustic Partition Roll or 30mm rock mineral wool unless otherwise stated.

\*\*Denotes 50mm Acoustic Partition Roll

Plasterboard codes are:-

S Standard plasterboard S(19) 19mm Standard plasterboard (Plank) FR Fire Resistant plasterboard

SR Sound Resistant plasterboard IR Impact Resistant plasterboard PD Pre Decorated fire/sound plasterboard

With studs spaced at 400mm centres, maximum height can be increased by 0.3m for single board applications and 0.6m for double board installations.



# PRODUCT PERFORMANCE TABLES

## 70mm and 73mm C Stud spaced at 600mm centres

	Part Grade	Max Height	Nominal Weight	Nominal Width	Fire Resistance	Sound Insulation No Infill RwdB	Sound Insulation With Infill RwdB	Single Layer		Double Layer		Certification Reference
								12.5mm	15mm	12.5mm	15mm	
	BS 5234	m	Kg/m <sup>2</sup>	mm	mins							
	MD	3.6	19	95	30	36		S				7001
	MD	3.6	22	95	30	40		SR				7002
	HD	3.6	27	95	60	39		IR				7003
	HD	3.8	25	100	60	39			FR			7004
	HD	3.8	26	100	30	42			SR			7005
	SD	3.8	28	100	60	40			PD			7027
	MD	3.6	20	95	30		41	S				7006
	MD	3.6	22	95	30		43	FR				7007
	MD	3.6	23	95	30		47	SR				7008
	HD	3.8	21	100	30		42**		S			7023
	HD	3.8	26	100	60		43		FR			7025
	HD	3.8	27	100	30		48		SR			7011
	SD	3.8	29	100	60		44		PD			7032
	SD	3.8	29	100	60		47**		PD			7030
	SD	3.8	29	100	60		45**		IR			7028
		SD	4.6	37	120	60	46				S	
SD		4.6	43	120	60	52				SR		7013
SD		4.6	41	120	120	48				FR		7014
SD		4.9	51	130	90	52					SR	7015
		SD	4.6	38	120	60		49			S	
	SD	4.6	44	120	60		54			SR		7017
	SD	4.6	42	120	120		48			FR		7018
	SD	4.9	54	130	90		56				SR	7019
	SD	4.7	51	125	90		53**			IR(0)	SR(I)	7021
											SR(I)	7021
	SD	4.9	51	130	90		55			PD(0)		7031
	SD	4.9	55	130	120		49			FR		7029
MD	4.1	20	96	30			S				BOXED STUDS	7020

## 92mm C Stud spaced at 600mm centres

	Part Grade	Max Height	Nominal Weight	Nominal Width	Fire Resistance	Sound Insulation No Infill RwdB	Sound Insulation With Infill RwdB	Single Layer		Double Layer		Certification Reference
								12.5mm	15mm	12.5mm	15mm	
	BS 5234	m	Kg/m <sup>2</sup>	mm	mins							
	MD	3.9	20	115	30	36		S				9001
	HD	4.4	26	120	60	39			FR			9004
	HD	4.4	27	120	30	42			SR			9010
	MD	3.9	21	115	30		41	S				9003
	MD	4.2	22	115	30		45	FR				9002
	HD	4.4	26	120	60		47		FR			9005
	HD	4.4	27	120	30		47		SR			9011
	SD	5.2	38	140	60	46				S		9006
	SD	5.2	42	140	120	49				FR		9007
	SD	5.19	51	150	90	52					SR	9012
	SD	5.2	39	140	60		49			S		9008
	SD	5.2	43	140	120		54			FR		9009
	SD	5.9	51	150	90		54				SR	9013

Note: Fire resistance and sound insulation performance figures apply laboratory test on elements imperforate partitions. Fire resistance information is based on the results of tests carried out to BS 476 : part 22 1987 or assessments based on these tests. Sound insulation is based on the results of tests carried out to BS EN ISO 140-3 : 1995. Single figure ratings (RW) have been calculated to BS EN ISO 717-1 : 1997. Some of the more recent fire tests have been conducted to European standard BS EN 1364-1 : 1999 which is actually more stringent than the existing British Standard BS 476.

All Studs spaced at 600mm centres. All studs are single unless stated as BOXED or TWIN FRAME construction Cavity infills are 25mm Acoustic Partition Roll unless otherwise stated.

\*\*Denotes 50mm Acoustic Partition Roll.

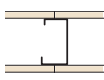
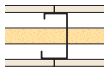
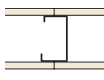
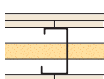
Plasterboard codes are:-

S Standard plasterboard                      S(19) 19mm Standard plasterboard (Plank)                      FR Fire Resistant plasterboard  
 SR Sound Resistant plasterboard                      IR Impact Resistant plasterboard                      PD Pre Decorated fire/sound plasterboard

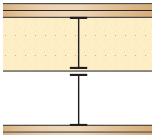
With studs spaced at 400mm centres, maximum height can be increased by 0.3m for single board applications and 0.6m for double board installations.



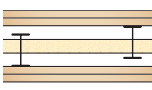
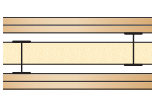
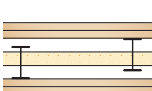

146m C Stud spaced at 600mm centres

	Part Grade	Max Height	Nominal Weight	Nominal Width	Fire Resistance	Sound Insulation No Infill RwdB	Sound Insulation With Infill RwdB	Single Layer		Double Layer		Certification Reference
								12.5mm	15mm	12.5m	15mm	
	MD	6.2	20	171	30	38		S				1001
	HD	6.5	26	176	60	42			FR			1002
	SD	7.6	38	196	60	48				S		1003
	SD	7.6	43	196	60	53				SR		1004
	SD	7.6	43	196	120	50				FR		1005
	SD	7.9	51	206	90	53					SR	1006
	SD	7.6	39	196	60		52			S		1007
	SD	7.6	44	196	60		57			SR		1008
	SD	7.6	44	196	120		56			FR		1009
	SD	7.9	51	206	90		57				SR	1010
	SD	8.2	47	206	90		53			S		1011
	SD	9.2	40	197	60	48				S		1012
	SD	7.0	54	209	90		60					1013
	SD	12.0	72	432	120		71*					1014

Twin Frame Walls

	I Stud Width mm	I Stud Reference	Max Height m	Nom Weight kg/m <sup>2</sup>	Nom Width mm	Fire Resistance mins	Sound Insulation RwdB	Certification Reference
	I Stud Frames (300mm overall) 2 layers	50	579640	2.7	53	300	69	TW001
	15mm sound resistant wallboard each side. No cross bracing 100mm APR.	60	535300/1	3.9	54	300	69	TW002
		92	535305/6	4.5	55	300	69	TW003

Staggered Stud Partitions

	I Stud Width mm	I Stud Reference	Max Height m	Nom Weight kg/m <sup>2</sup>	Nom Width mm	Fire Resistance mins	Sound Insulation RwdB	Certification Reference
	60mm I Stud at 300mm centres staggered in 72mm Track Two layers of 15mm Standard wallboard 25mm APR.	60	535300/1	3.9	46	132	54	SS001
	60mm I Stud at 300mm centres staggered in 72mm Track Two layers of 15mm Standard wallboard 50mm APR.	60	535300/1	3.9	47	132	56	SS002
	60mm I Stud at 300mm centres staggered in 72mm Track Two layers of 12.5mm sound resistant wallboard. 25mm APR.	60	535300/1	3.9	56	120	59	SS003
	60mm I Stud at 300mm centres staggered in 72mm Track Two layers of 15mm sound resistant wallboard. 25mm APR.	60	535300/1	3.9	57	130	59	SS004

All Studs spaced at 600mm centres. All studs are single unless stated as BOXED or TWIN FRAME construction Cavity infills are 25mm Acoustic Partition Roll unless otherwise stated.

Plasterboard codes are:-

S Standard plasterboard

S(19) 19mm Standard plasterboard (Plank)

FR Fire Resistant plasterboard

SR Sound Resistant plasterboard

IR Impact Resistant plasterboard

PD Pre Decorated fire/sound plasterboard

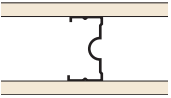
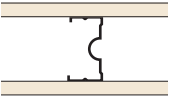
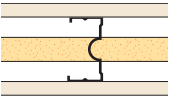
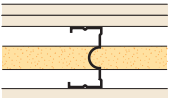


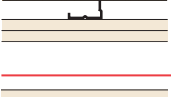
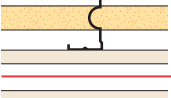
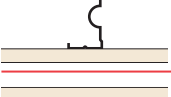
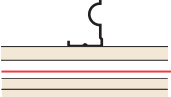
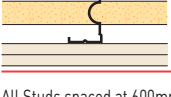
With studs spaced at 400mm centres, maximum height can be increased by 0.3m for single board applications and 0.6m for double board installations.



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## Acoustic Stud Configurations

Acoustic Studs can be used in a wide range of partition designs, depending on specification requirements. An example of some system configuration is detailed below:

	Part Grade BS 5234	Maximum height m	Nominal thickness mm	Fire Resistance minutes	Sound insulation R <sub>w</sub> dB	Reference
 Studs: 43mm Acoustic Stud (AS43) Facings: one layer 15mm Sound Resistant plasterboard	MD	2.7	75	30	40	A43001/2
 Studs: 70mm Acoustic Stud (AS70) Facings: one layer 15mm Fire Resistant wallboard both sides plasterboard Facings: one layer 12.5mm Sound Resistant plasterboard	MD MD	3.8 3.6	100 95	60 30	41 42	A7001 A7002
 Studs: 70mm Acoustic Stud (AS70) Facings: one layer 15mm Pre-decorated plasterboard Insulation: 70mm Flexible Slab	HD	3.8	100	60	51	A7003
 Studs: 70mm Acoustic Stud (AS70) Facings: two layers 12.5mm Sound Resistant plasterboard Insulation: 25mm APR	SD	4.6	120	60	58	A7004
 Studs: 70mm Acoustic Stud (AS70) Facings: two layers 12.5mm Fire Resistant plasterboard	SD	4.6	120	120	50	A7006
 Studs: 70mm Acoustic Stud (AS70) Facings: two layers 12.5mm Fire Resistant plasterboard Insulation: 25mm APR	SD	4.6	120	120	54	A7007
 Studs: 70mm Acoustic Stud (AS70) Facings: two layers 15mm Sound Resistant plasterboard Insulation: 25mm APR	SD	4.9	130	90	59	A7005
 Studs: 92mm Acoustic Stud (AS92) Facings: one layer of 15mm Sound Resistant plasterboard both sides Insulation: 75mm APR	SD	4.2	122	60	52	A9208
 Studs: 70mm Acoustic Stud (AS70) Facings: one layer of 12.5mm Impact Resistant plasterboard	HD	3.6	95	60	40	A7008
 Studs: 70mm Acoustic Stud (AS70) Facings: one layer of 15mm Pre decorated plasterboard	SD	3.8	100	60	41	A7009
 Studs: 70mm Acoustic Stud (AS70) Facings: Inner layer 15mm SR Board Outer layer 15mm Pre decorated plasterboard Insulation: 50mm APR	SD	4.9	130	90	58**	A7010

All Studs spaced at 600mm centres. All studs are single unless stated as BOXED or TWIN FRAME construction Cavity infills are 25mm Acoustic Partition Roll unless otherwise stated.

\*\*Denotes 50mm Acoustic Partition Roll.

Plasterboard codes are:-

S Standard plasterboard

S(19) 19mm Standard plasterboard (Plank)

FR Fire Resistant plasterboard

SR Sound Resistant plasterboard

IR Impact Resistant plasterboard

PD Pre Decorated fire/sound plasterboard

With studs spaced at 400mm centres, maximum height can be increased by 0.3m for single board applications and 0.6m for double board installations.



### Shaft Encasement System

Coreboard nominally 595mm wide by either 19mm or 25mm thick is located between studs and secured using shaft encasement brackets spaced at 600mm maximum centres. Linings to the non shaft side of the partition as shown below.

#### 60mm I Stud

Diagram Reference	Part Grade	Max Height	Nominal Weight	Nominal Width	Fire Resistance	Sound Insulation No Infill RwdB	Sound Insulation With Infill RwdB	Single Layer		Double Layer		Reference
								12.5mm	15mm	12.5mm	15mm	
1	HD	4.2	30	75	60	34			FR			SE001
2	SD	4.4	39	85	90	37				FR		SE002
2	SD	4.5	41	90	120	41					FR	SE003
3	HD	4.2	31	75	60		41		FR			SE004
4	SD	4.4	40	85	90		44			FR		SE005
4	SD	4.5	42	90	120		45				FR	SE006

#### 70mm I Stud

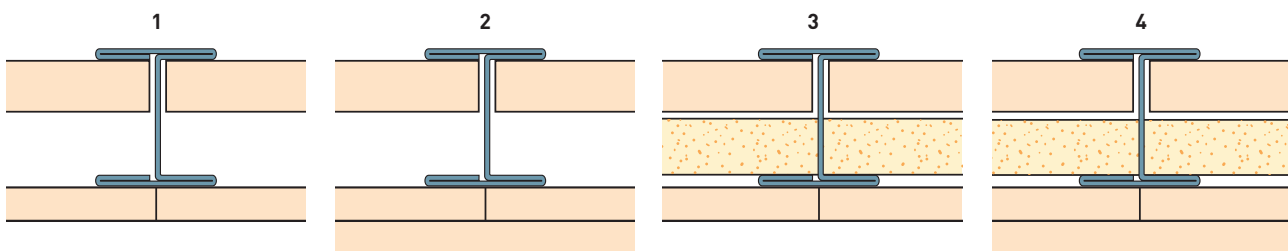
Diagram Reference	Part Grade	Max Height	Nominal Weight	Nominal Width	Fire Resistance	Sound Insulation No Infill RwdB	Sound Insulation With Infill RwdB	Single Layer		Double Layer		Reference
								12.5mm	15mm	12.5mm	15mm	
1	HD	4.2	31	85	60	39			FR			SE007
2	SD	4.4	40	95	90	40				FR		SE008
2	SD	4.5	42	100	120	42					FR	SE009
3	HD	4.2	32	85	60		42		FR			SE010
4	SD	4.4	41	95	90		44			FR		SE011
4	SD	4.5	43	100	120		45				FR	SE012

#### 92mm I Stud

Diagram Reference	Part Grade	Max Height	Nominal Weight	Nominal Width	Fire Resistance	Sound Insulation No Infill RwdB	Sound Insulation With Infill RwdB	Single Layer		Double Layer		Reference
								12.5mm	15mm	12.5mm	15mm	
1	HD	6	32	107	60	40			FR			SE013
2	SD	6.4	41	117	90	42				FR		SE014
2	SD	6.7	43	122	120	43					FR	SE015
3	HD	6	33	107	60		43		FR			SE016
4	SD	6.4	42	117	90		46			FR		SE017
4	SD	6.7	44	122	120		46				FR	SE018

#### 146mm I Stud

Diagram Reference	Part Grade	Max Height	Nominal Weight	Nominal Width	Fire Resistance	Sound Insulation No Infill RwdB	Sound Insulation With Infill RwdB	Single Layer		Double Layer		Reference
								12.5mm	15mm	12.5mm	15mm	
1	HD	6.8	33	161	60	41			FR			SE019
2	SD	7.5	42	171	90	45				FR		SE020
2	SD	7.9	44	176	120	45					FR	SE021
3	HD	6.8	34	161	60		46		FR			SE022
4	SD	7.5	43	171	90		50			FR		SE023
4	SD	7.9	45	176	120		50				FR	SE024



### BS EN 10346: 2009

Continuously hot-dip steel sheet and strip.

### BS EN 10327: 2004

Continuously hot-dip coated strip and sheet of low carbon steel for cold forming.

### BS EN 10162: 2003

Specification for cold rolled steel sections.

### BS 7364: 1990

Specification for galvanised steel studs and channels for studs and sheet partitions and linings using screw fixed gypsum wallboards.

### BS 1230: 1994

Part 1  
Specification for plasterboard excluding materials submitted to secondary operations.

### BS 8212: 1995

British Standard Code of Practice for dry lining and partitioning using gypsum plasterboard.

### BS 476: 1987

Fire tests on building materials and structures.

#### Part 20:

Method for determination of the fire resistance of elements of construction (general principles).

#### Part 22:

Methods of determination of the fire resistance of non-load-bearing elements of construction.

#### Part 23:

Methods for the determination of the contribution of components to the fire resistance of a structure.

### BS 4787: 1995

#### Part 1:

Internal and external wood door sets, door leaves and frames.

### BS 5234: 1992

Partitions (including matching linings).

#### Part 1:

Code of practice for design and installation.

#### Part 2:

Specification for performance requirements of components and assemblies, and methods of test.

### BS 8290: 1991

Suspended ceilings.

#### Part 1:

Code of practice for design.

#### Part 2:

Specification for performance requirements of components and assemblies and methods of test.

#### Part 3:

Code of practice for installation and maintenance.

### BS EN 14195: 2005

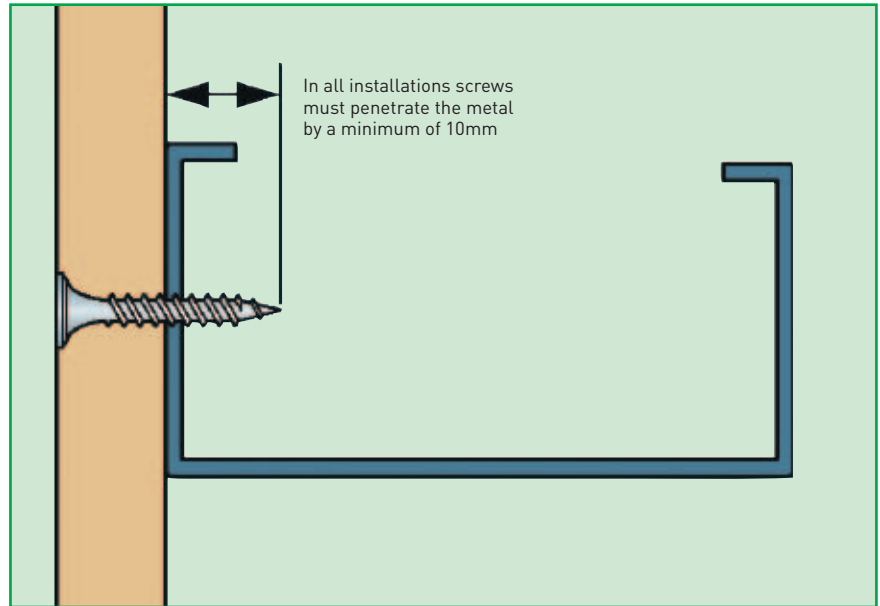
Metal framing components for gypsum plasterboard systems - Definitions, requirements and test methods.

## HEALTH & SAFETY RELEVANT REFERENCES

No. 43 Safety in Mechanical Handling

No. 47 Safety in Stacking Materials

No. EH40 Occupational Exposure Limits



## HEALTH & SAFETY PRODUCT INFORMATION

### PRODUCTS

Cold rolled sections manufactured from pre galvanised mild steel. Some sections may be manufactured from pre painted material.

### PRODUCT USE

Always use products for the purpose intended as described in our technical literature.

When subjected to elevated temperatures during welding or cutting, toxic fumes are produced. Inhalation of these may cause metal fume fever, a short lasting condition with symptoms similar to those of influenza. Therefore adequate ventilation or fume extraction should be provided, and where necessary, protective masks should be worn.

If skin irritation occurs, rinse well with clean cold water, then wash thoroughly. If symptoms persist obtain medical advice.

In the event of eye contamination or if any product is swallowed seek medical advice immediately.

Metal products may have sharp corners and edges which can cause lacerations. Always use suitable gloves when handling.

When working overhead or when cutting metal products, the use of protective eye glasses is advisable.

Metal is a good conductor of electricity. Proper precautions should be taken when working near live power lines or electrical equipment.

Metal can become charged. Static electricity may cause sparks when earthed.

Personal hygiene is important, always wash hands well particularly before eating.

### PRODUCT STORAGE

Products should be stored dry and stacked in a safe manner.

Never rely on banding for lifting, always use suitable slings.

### PRODUCT DISPOSAL

Dispose of product in accordance with local authority regulations.

This list is not exhaustive and the Contractor should satisfy themselves with the relevant British Standards.



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