



StiFlex™

M O D U L A R
S Y S T E M S

Brought to you by Dyntek



Established since

1998,

DYNTEK is the leading designer and manufacturer of steel stiffeners, lintels and plaster meshes.

VISION

To be the trusted partner of tomorrow's builders.

MISSION

To lead and bring innovative, integrable construction systems to builders.

VALUES

RELATIONSHIP

Mutually beneficial collaboration with clients and associates.

INTEGRITY

Righteous conduct with clients and associates in business partnership.

DEVELOPMENT

Progress through product invention and innovation with market growth.

EFFICIENCY

Improved work processes using advanced technologies.

UNITY

Teamwork in staff and management having one vision and one voice.

PASSION

Aspiration for business excellence without compromise.

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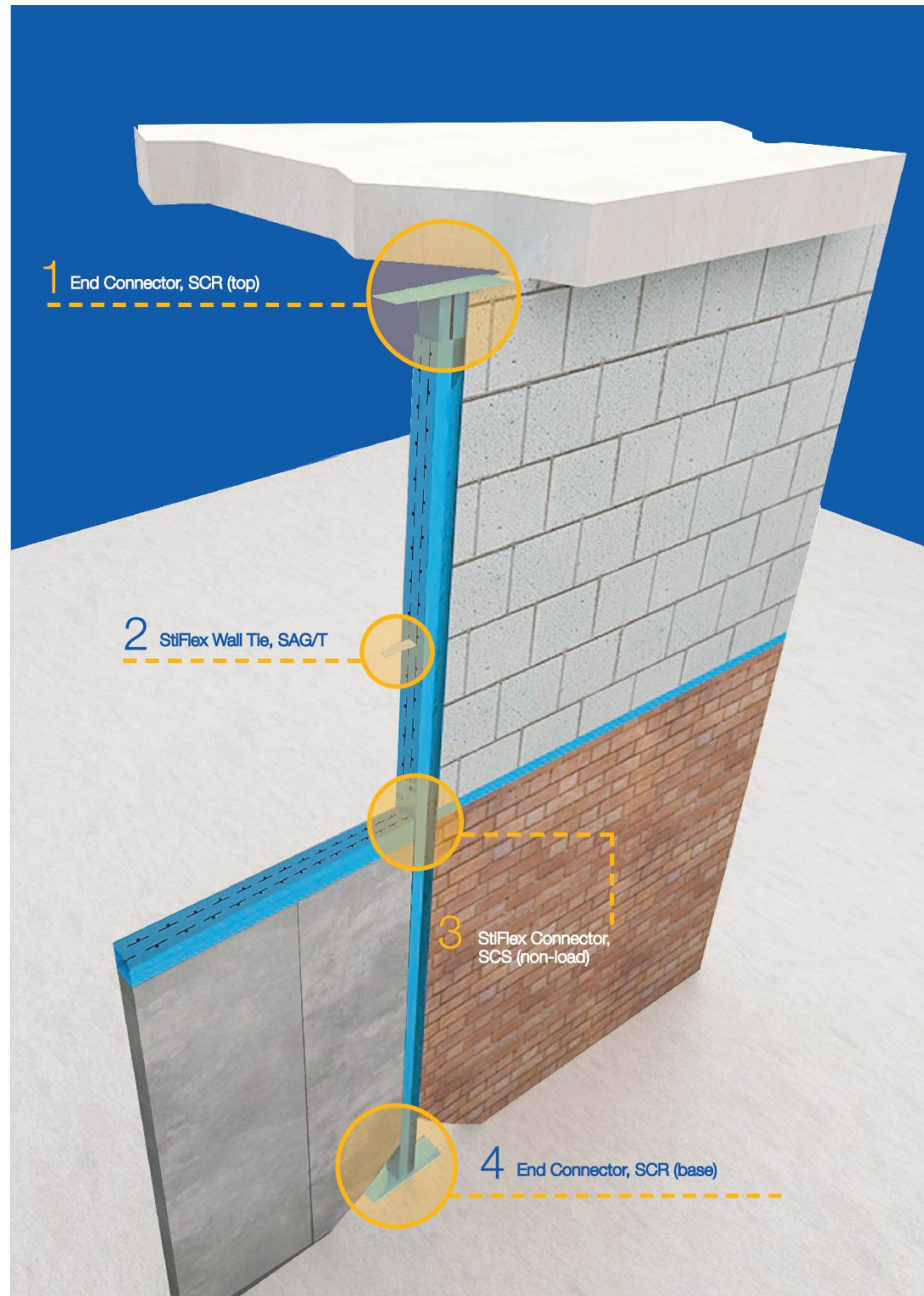
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Dyntek presents **StiFlex**, a modular system of steel profiles, connectors and wall ties, designed to stiffen and strengthen both internal and external walls, of masonry materials such as lightweight concrete, cement or clay in any form, whether brick, block or panel including dry walls employing gypsum or calcium silicate boards.

Manufactured from steel, **StiFlex** stiffener system directly replaces traditional cast-in-situ reinforced concrete stiffeners. **StiFlex** is quicker and easier to install, providing savings in time and manpower without compromising on any expected relevant conformance.



1 End Connector, SCR (top)

2 StiFlex Wall Tie, SAG/T

3 StiFlex Connector, SCS (non-load)

4 End Connector, SCR (base)

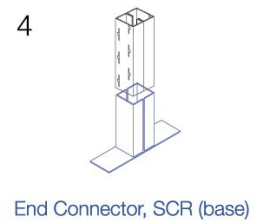
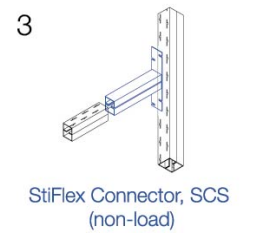


Diagram: Dimensions not to scale,
Non-load bearing horizontal shown

WHY



WALL STIFFENERS?



Lightened System

Manufactured using thinner but stronger steel, being lightweight, thus StiFlex reduces fatigue of installers.

Reduced Workforce

Designed for ease of installation, fewer workers are required to fasten our fully modular and adjustable StiFlex system.

Minimized Administration

StiFlex promotes fully efficient product usage, providing clients AutoCad plotted, quantified with cost per location on spreadsheet.



Easy Ordering

No site measurements required as our AutoCad plotted StiFlex sizes and positions are based on client's drawings, ahead of ordering.

Rapid Installation

Quicker fastening with nails to concrete or even steel, with StiFlex wall ties and connectors simply slid into positions.

Adjustable Lengths And Positions

StiFlex system allows 250mm tolerance and variable positioning against typical site variances or even unforeseen obstacles.



Masonry Adaptability

There are many options for masonry and our StiFlex system is compatible with all, by merely adapting its attachment process.

Drywall Flexibility

Suitable in cases when gypsum board wall construction adjoins masonry wall since StiFlex system allows such integration.

Plaster Friendly

StiFlex assures with its time proven method statements for plaster and skim coat, using the right mesh and procedure.



Designed To Meet Relevant Safety Standard For Partition Wall

Practicing due diligence, for the interest of all, StiFlex adopts applicable and established standard for safe wall spans.

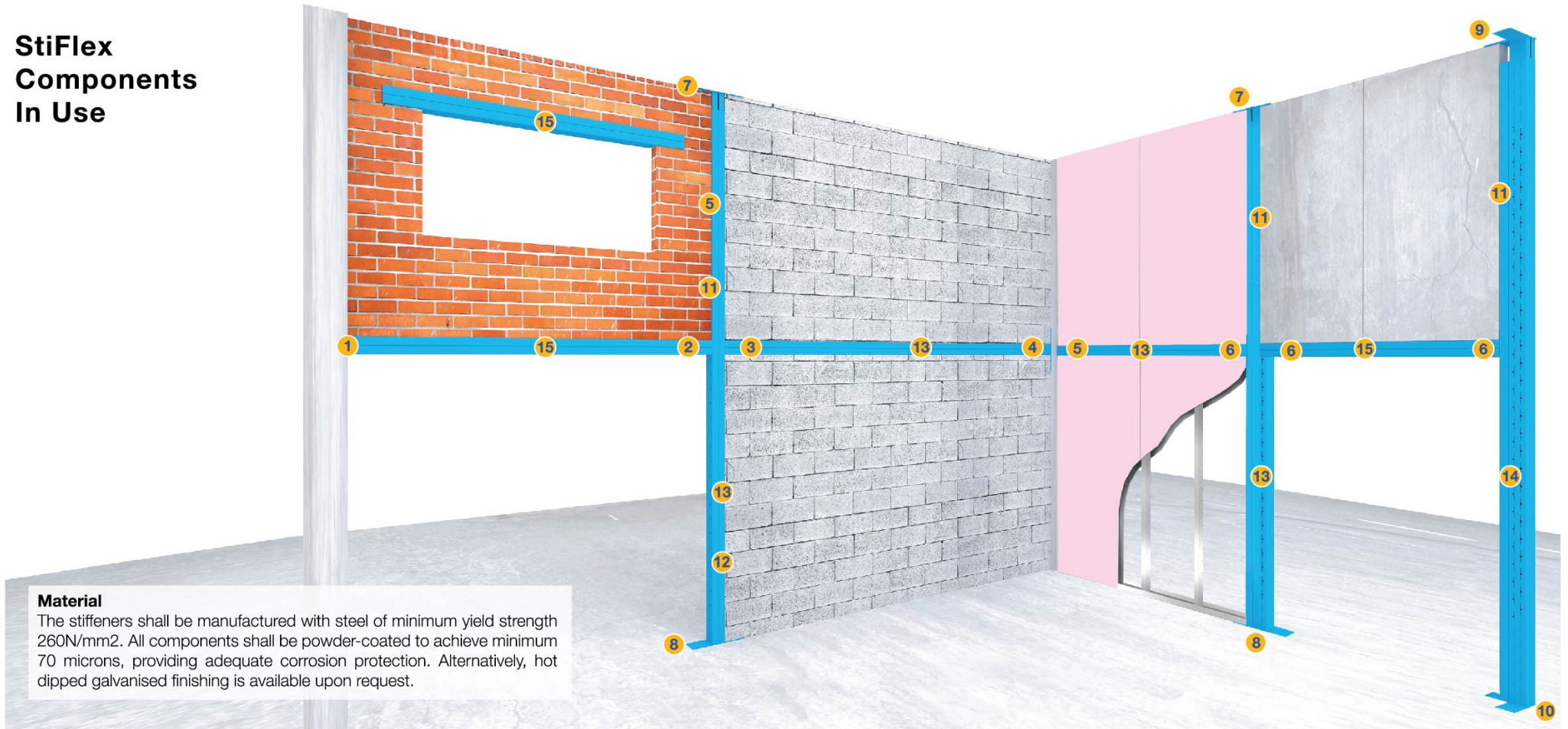
Tested And Assessed for 1-hour, 2-hour and 4-hour Fire Resistance Fire Rating

Fire tested to BS476, and continually assessed by independent fire consultants, StiFlex meets insulation and integrity obligations.

Superior To Conventional For Sound, Thermal And Moisture Insulation

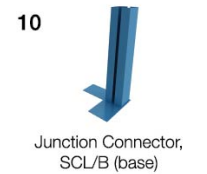
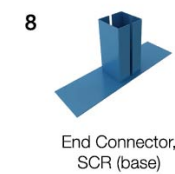
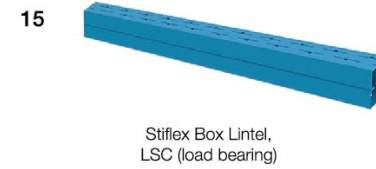
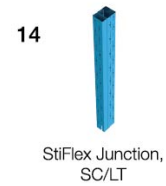
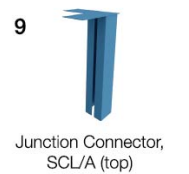
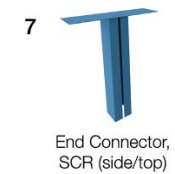
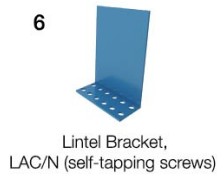
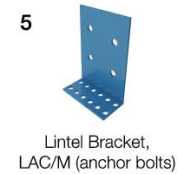
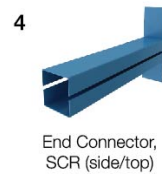
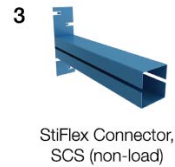
StiFlex, being a direct replacement to conventional concrete stiffeners, was tested and/or assessed and results surpass concrete's.

StiFlex Components In Use



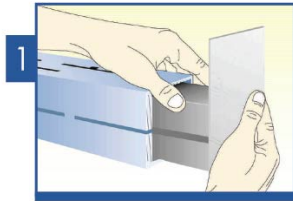
Material

The stiffeners shall be manufactured with steel of minimum yield strength 260N/mm². All components shall be powder-coated to achieve minimum 70 microns, providing adequate corrosion protection. Alternatively, hot dipped galvanised finishing is available upon request.

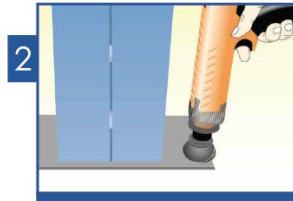


StiFlex Installation Method For

Non-loadbearing Horizontal



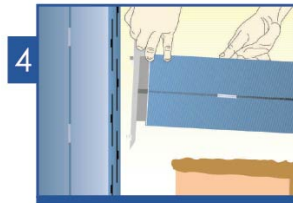
1 Insert End Connectors (SCR) into both ends of vertical member and then lift upright at intended position of stiffener.



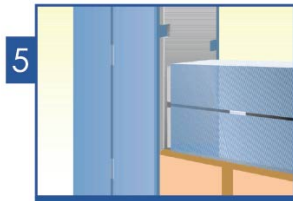
2 Fasten 2 powder-actuated 3.8mm x 25mm nails, on each side of the End Connector (base). Slide Top Connector sleeve out to beam/slab soffit. Upon verticality check, similarly fasten End Connector (top).



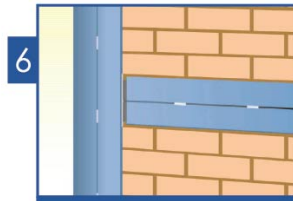
3 At 400mm (or less) intervals, slot StiFlex wall tie (SAG/T) into vertical member, embedding firmly in mortar bed above masonry. StiFlex wall tie (SAG/T) can be positioned indefinitely along member.



4 Install horizontal member with pre-inserted StiFlex Connector (SCS), extending its sleeve/s to slot into [as with StiFlex wall tie (SAG/T)] vertical member. Sufficient space to be catered for below and above connection area.



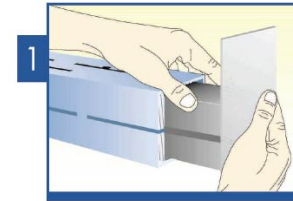
5 When necessary, invert StiFlex Connector/s (SCS) of horizontal member to allow indefinite positioning, meeting designed position and ensuring horizontal members rest securely on mortar bed of masonry below.



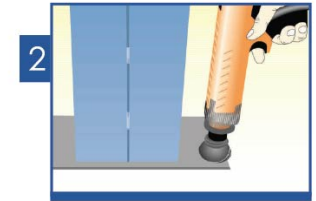
6 Continue masonry work and where plaster is required on stiffener, apply Dyntek metal lath (ML263) to prevent plaster cracks caused by thermal differential movement between dissimilar surface.

StiFlex Installation Method For

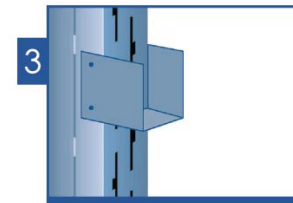
Loadbearing Horizontal



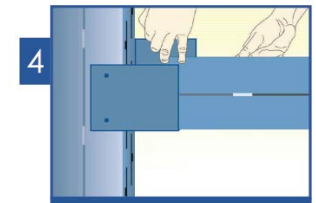
1 Insert End Connector (SCR) into both ends of vertical member and then lift upright at intended position of stiffener.



2 Fasten 2 powder-actuated 3.8mm x 25mm nails, on each side of the End Connector (base). Slide Top Connector sleeve out to beam/slab soffit. Upon verticality check, similarly fasten End Connector (top).



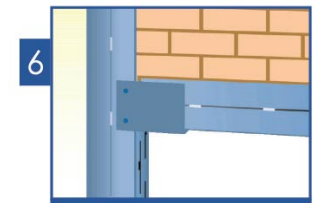
3 Install loadbearing End bracket (BBC, to concrete end) StiFlex bracket BBS, to vertical StiFlex shown here, using bolts at desired (leveled) position.



4 Lay horizontal StiFlex member on loadbearing StiFlex bracket (BBS, shown here) ensuring its levelness.



5 At 400mm (or less) intervals, slot StiFlex wall tie (SAG/T) into vertical member, embedding firmly in mortar bed above masonry. StiFlex wall ties (SAG/T) can be positioned indefinitely along member.



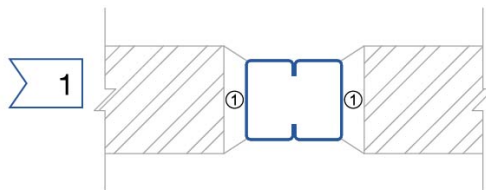
6 Continue masonry work and where plaster is required on stiffener, apply Dyntek metal lath (ML263) to prevent plaster cracks caused by thermal differential movement between dissimilar surfaces.

StiFlex Method Statement With Plaster Finish

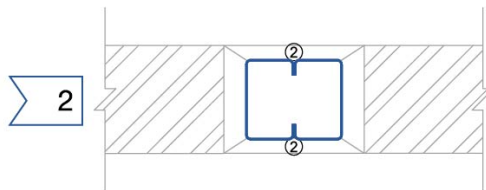
Verticals and Horizontals | Smaller width than wall
Brick Wall

With plaster

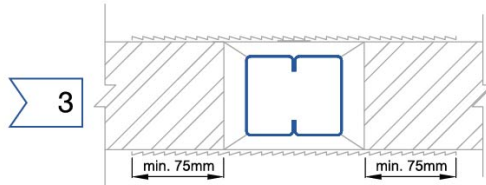
1, 2, 3, 4



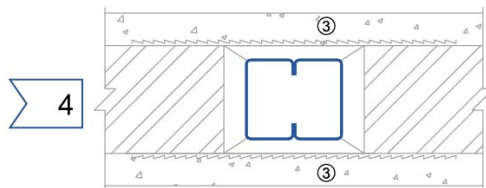
Location ① to be completely sealed using cement mortar after installation of StiFlex stiffener but during the course of brick or block laying.



Location ② to be flushed or sealed using cement mortar after the completion of brick or block work on both sides of StiFlex stiffener ie. front and back of StiFlex stiffener.



Position Dyntek Metal Lath ML263 (1.11kg/m²) of nearest standard width with at least 75mm overrun on both sides of StiFlex stiffener as shown.



Location ③ to be fully plastered (to required thickness of 13mm-25mm) taking care to avoid air gaps behind Dyntek Metal Lath ML263 (1.11kg/m²) or equivalent when plastering. Number of layers of plaster according to good practice - 3 layers

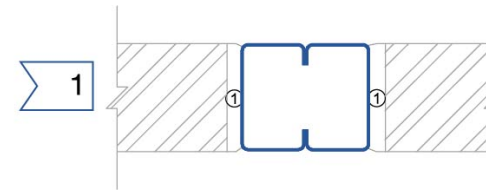
**Note: For External facing walls, plaster finish is recommended.
Metal Lath specified based on BS1369 specifications**

StiFlex Method Statement With Plaster Finish

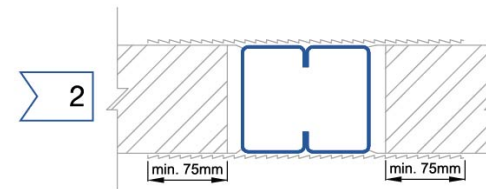
Verticals and Horizontals | Same width as wall
Brick Wall

With plaster

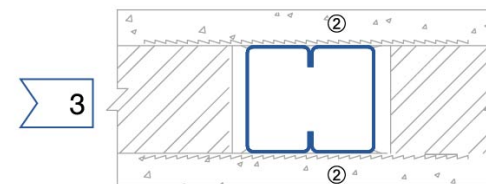
1, 2, 3



Location ① to be completely sealed using cement mortar after installation of StiFlex stiffener but during the course of brick or block laying.



Position Dyntek Metal Lath ML263 (1.11kg/m²) of nearest standard width with at least 75mm overrun on both sides of StiFlex stiffener as shown.



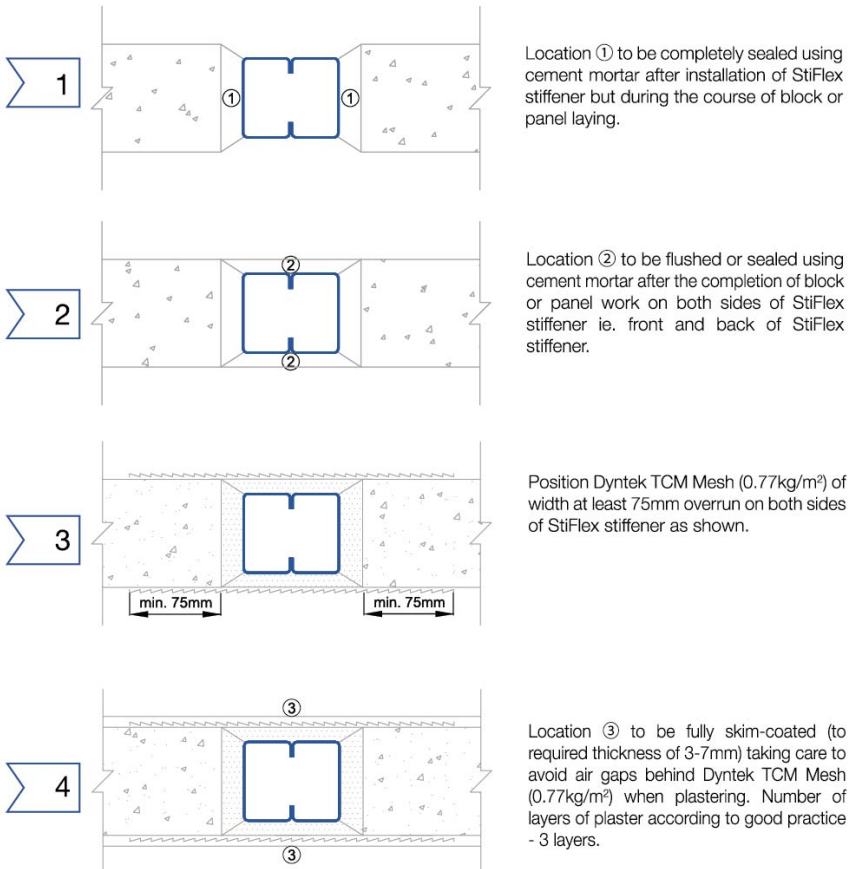
Location ② to be fully plastered (to required thickness of 13mm-25mm) taking care to avoid air gaps behind Dyntek Metal Lath ML263 (1.11kg/m²) or equivalent when plastering. Number of layers of plaster according to good practice - 3 layers

**Note: For External facing walls, plaster finish is recommended.
Metal Lath specified based on BS1369 specifications**

StiFlex Method Statement With Skim Coat Finish

Verticals and Horizontals | Smaller width than wall
Concrete Block Wall / Concrete Precast Wall Panel
Lightweight Block Wall / Lightweight Precast Wall Panel

With skim coat 1, 2, 3, 4

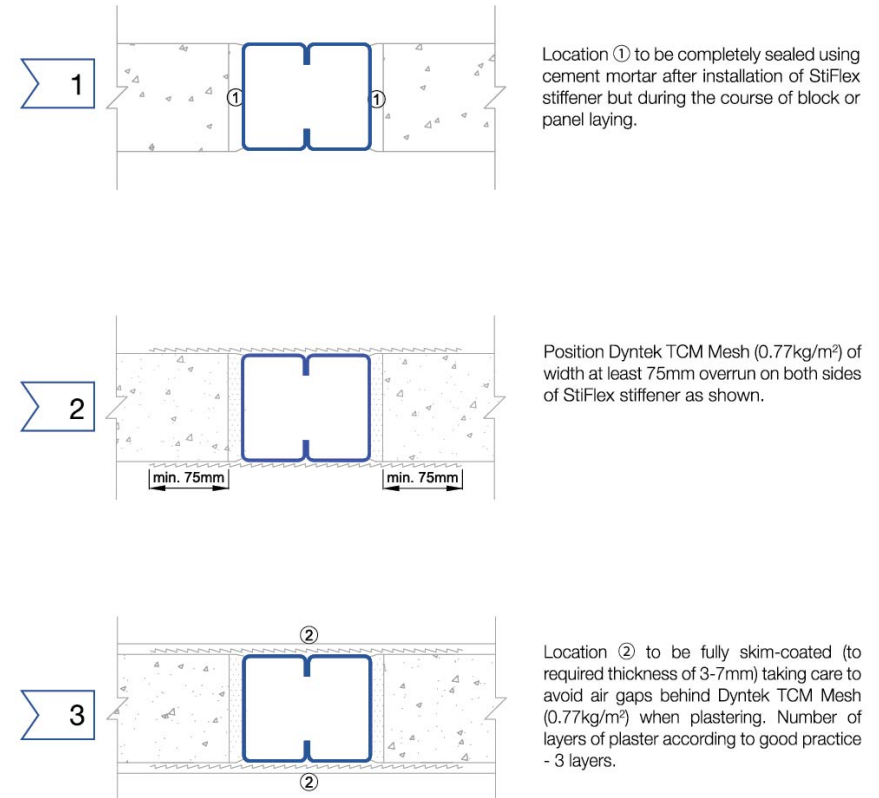


Note: For External facing walls, plaster finish is recommended.

StiFlex Method Statement With Skim Coat Finish

Verticals and Horizontals | Same width as wall
Concrete Block Wall / Concrete Precast Wall Panel
Lightweight Block Wall / Lightweight Precast Wall Panel

With skim coat 1, 2, 3



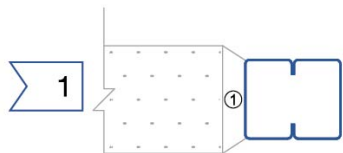
Note: For External facing walls, plaster finish is recommended.

StiFlex Method Statement

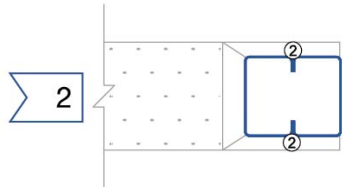
With Plaster / Skim Coat Finish (At Door Jambs)

Verticals and Horizontals | Smaller width than wall
Brick Wall / Block Wall / Precast Wall Panel

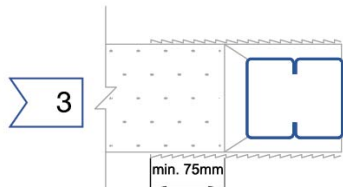
With plaster/skim coat 1, 2, 3, 4



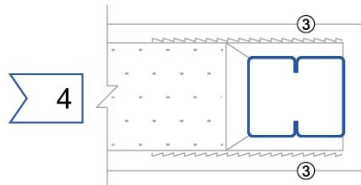
Location ① to be completely sealed using cement mortar after installation of StiFlex stiffener but during the course of brick or block laying.



Location ② to be flushed or sealed using cement mortar after the completion of brick or block work on both sides of StiFlex stiffener.
**If StiFlex stiffener same width as the wall, skip step 2 and refer to step 3.*



Position Dyntek Metal Lath ML263 (1.11kg/m²) or Dyntek TCM Mesh (0.77kg/m²) of nearest standard width with at least 75mm overrun on both sides of StiFlex stiffener as shown.

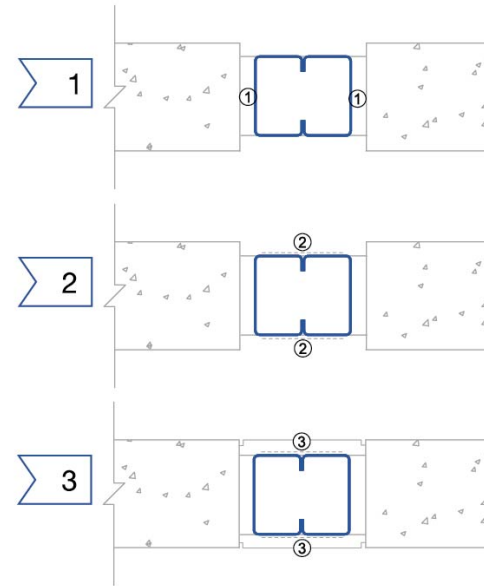


Location ③ to be fully plastered (to required thickness of 13mm-25mm) or 3mm-7mm skim coat taking care to avoid air gaps behind Dyntek Metal Lath ML263 (1.11kg/m²) or Dyntek TCM Mesh (0.77kg/m²) when plastering. Number of layers of plaster according to good practice - 3 layers.

Note: For External facing walls, plaster finish is recommended.

StiFlex Method Statement With Bare-finished Wall

Verticals and Horizontals | Smaller width than wall
Applicable for all Types of Wall

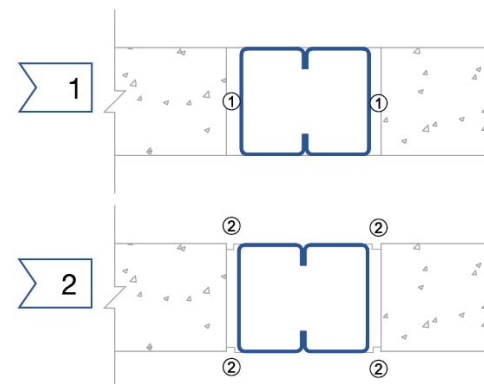


Location ① to be completely sealed using cement mortar after installation of StiFlex stiffener but during the course of all type of wall laying.

Location ② to apply Self Adhesive Fiber Mesh Tape as shown, of width slightly narrower than profile.

Location ③ to plaster or cement mortar flushed with the adjoining wall and leaving recesses as shown so as to allow for cracks or movement at the 4 joint locations shown.

Verticals and Horizontals | Same width as wall
Applicable for all Types of Wall



Location ① to be completely sealed using cement mortar after installation of StiFlex stiffener but during the course of all type of wall laying.

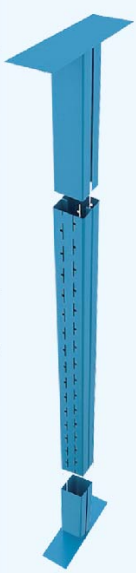
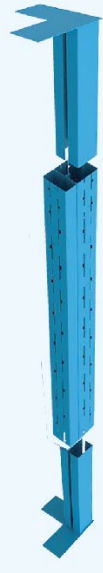



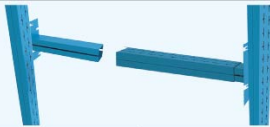



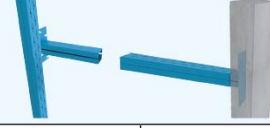



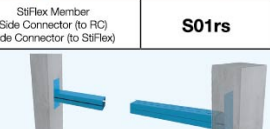



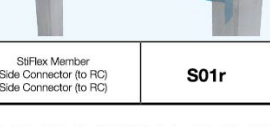







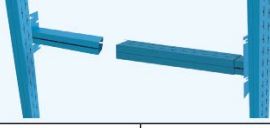


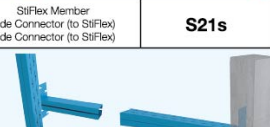


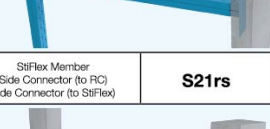

Location ② leave recesses as shown so as to allow for cracks or movement at the 4 joint locations shown.

Note: Recommended StiFlex to be Hot-dipped galvanized finishing due to exposure to weather, prevention of corrosion.

Quick StiFlex Selection Schedule: Non-load Bearing (for *Internal Walls)

Brick Wall


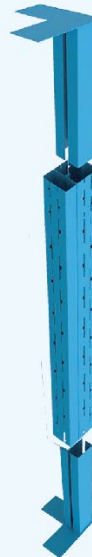



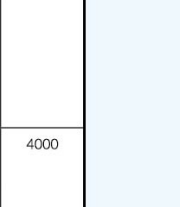



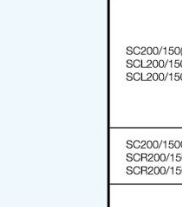
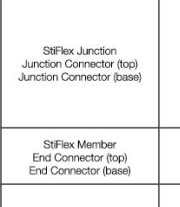


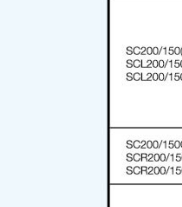
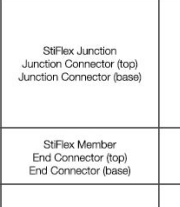
| Assumed to have 13mm to 25mm of plaster finish each side |

Wall thickness (mm)	Wall height (mm)	Vertical Stiffener span (mm)	Horizontal Stiffener span (mm)	Picture Description	Picture Description	Vertical StiFlex Stiffeners					Horizontal StiFlex Stiffeners					
						StiFlex Codes	Description	Assigned Codes	Section Size	Fire Rating	StiFlex Codes	Description	Assigned Codes	Section Size	Fire Rating	
100 and/or 150	up to 4000	4000	-			SC100/90 SCR100/90(SL500) SCR100/90(SL180)	StiFlex Member End Connector (top) End Connector (base)	S01		2	NO HORIZONTAL STIFFENER					
	up to 4500	4000	4000			SC100/90 SCR100/90(SL500) SCR100/90(SL180)	StiFlex Member End Connector (top) End Connector (base)	S01		2						
	up to 5400	4000	4000			SC100/90(L) SCL100/90A(SL500) SCL100/90B(SL500)	StiFlex Junction Junction Connector (top) Junction Connector (base)	S01L		2						
	up to 6500	4000	4000			SC125/100(F) SCR125/100(SL500)F SCR125/100(SL180)	StiFlex Member End Connector (top) End Connector (base)	S11f		2 & 4	SC100/90 SCS100/90(SL500) SCS100/90(SL500)	StiFlex Member Side Connector (to StiFlex) Side Connector (to StiFlex)	S01s		2	
	up to 8000	4000	4000			SC125/100(L)F SCL125/100A(SL500)F SCL125/100B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S11fL		2 & 4						
	up to 9000	4000	4000			SC125/150A(F) SCR125/150(SL500)F SCR125/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S12f		2 & 4	SC100/90 SCR100/90(SL500) SCS100/90(SL500)	StiFlex Member Side Connector (to RC) Side Connector (to StiFlex)	S01rs		2	
	up to 8000	4000	4000			SC125/150A(L)F SCL125/150A(SL500)F SCL125/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S12fL		2 & 4						
	up to 9000	4000	4000			SC125b/150d(F) SCR125/150(SL500)F SCR125/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S13f		2 & 4	SC100/90 SCR100/90(SL500) SCS100/90(SL500)	StiFlex Member Side Connector (to RC) Side Connector (to StiFlex)	S01rs		2	
	up to 9000	4000	4000			SC125b/150d(L)F SCL125/150A(SL500)F SCL125/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S13fL		2 & 4						
	up to 9000	4000	4000			SC125b/150(f) SCR125/150(SL500)F SCR125/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S14f		2 & 4	SC100/90 SCR100/90(SL500) SCR100/90(SL500)	StiFlex Member Side Connector (to RC) Side Connector (to RC)	S01r		2	
up to 9000	4000	4000	SC125b/150(L)F SCL125/150A(SL500)F SCL125/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S14fL		2 & 4	NO HORIZONTAL STIFFENER								
200	up to 4500	4500	-			SC200/150 SCR200/150(SL500) SCR200/150(SL180)	StiFlex Member End Connector (top) End Connector (base)						S21		2	NO HORIZONTAL STIFFENER
	up to 8500	4500	4000			SC200/150 SCR200/150(SL500) SCR200/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S21		2						
	up to 11000	up to 4500	4500			-	SC200/150(L) SCL200/150A(SL500) SCL200/150B(SL500)	StiFlex Junction Junction Connector (top) Junction Connector (base)	S21L							2
							SC200/150(L2) SCL200/150A(SL500) SCL200/150B(SL500)	StiFlex Junction Junction Connector (top) Junction Connector (base)	S21L2		2					
		SC200/150C SCR200/150(SL500) SCR200/150(SL180)	StiFlex Member End Connector (top) End Connector (base)			S22		2	SC200/150 SCR200/150(SL500) SCS200/150(SL500)	StiFlex Member Side Connector (to RC) Side Connector (to StiFlex)	S21rs					
		SC200/150C(L) SCL200/150A(SL500) SCL200/150B(SL500)	StiFlex Junction Junction Connector (top) Junction Connector (base)			S22L		2								
		SC200/150C(L2) SCL200/150A(SL500) SCL200/150B(SL500)	StiFlex Junction Junction Connector (top) Junction Connector (base)			S22L2		2	SC200/150 SCR200/150(SL500) SCR200/150(SL500)	StiFlex Member Side Connector (to RC) Side Connector (to RC)	S21r					

Quick StiFlex Selection Schedule: Non-load Bearing (for *Internal Walls)

Lightweight / Concrete Block Wall

| Assumed to have 3mm to 7mm of skim coat each side |






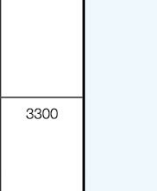




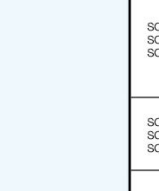



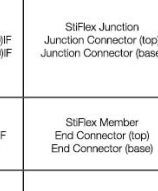

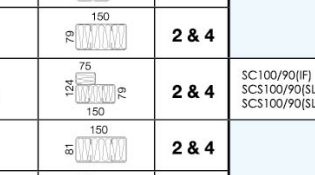
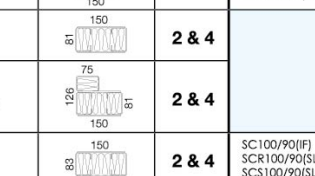








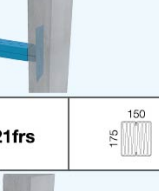

		Vertical StiFlex Stiffeners								Horizontal StiFlex Stiffeners					
Wall thickness (mm)	Wall height (mm)	Vertical Stiffener span (mm)	Horizontal Stiffener span (mm)	Picture Description	Picture Description	StiFlex Codes	Description	Assigned Codes	Section Size	Fire Rating	StiFlex Codes	Description	Assigned Codes	Section Size	Fire Rating
100	up to 4000	4000	-			SC100/90(F) SCR100/90(SL500)F SCR100/90(SL180)	StiFlex Member End Connector (top) End Connector (base)	S01f		2 & 4	NO HORIZONTAL STIFFENER				
	up to 4500	4000	4000			SC100/90(F) SCR100/90(SL500)F SCR100/90(SL180)	StiFlex Member End Connector (top) End Connector (base)	S01f		2 & 4					
	up to 5600	4000	4000			SC100/90(L)F SCL100/90A(SL500)F SCL100/90B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S01fL		2 & 4					
						SC100/150A(F) SCR100/150(SL500)F SCR100/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S02f		2 & 4					
	up to 6200	4000	4000			SC100/150A(L)F SCL100/150A(SL500)F SCL100/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S02fL		2 & 4	SC100/90(F) SCS100/90(SL500)F SCS100/90(SL500)F	StiFlex Member Side Connector (to StiFlex) Side Connector (to StiFlex)	S01fs		2 & 4
						SC100/150C(F) SCR100/150(SL500)F SCR100/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S03f		2 & 4					
	up to 6600	4000	4000			SC100/150C(L)F SCL100/150A(SL500)F SCL100/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S03fL		2 & 4					
						SC100/150d(F) SCR100/150(SL500)F SCR100/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S04f		2 & 4					
	up to 7300	4000	4000			SC100/150d(L)F SCL100/150A(SL500)F SCL100/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S04fL		2 & 4					
						SC100/150f(F) SCR100/150(SL500)F SCR100/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S05f		2 & 4					
200	up to 4500	4500	-			SC200/150(F) SCR200/150(SL500)F SCR200/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S21f		4	NO HORIZONTAL STIFFENER				
	up to 8500	4500	4000			SC200/150(F) SCR200/150(SL500)F SCR200/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S21f		4					
	up to 11000	4500	4000			SC200/150(L)F SCL200/150A(SL500)F SCL200/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S21fL		4	SC200/150(F) SCS200/150(SL500)F SCS200/150(SL500)F	StiFlex Member Side Connector (to StiFlex) Side Connector (to StiFlex)	S21fs		4
						SC200/150(L2)F SCL200/150A(SL500)F SCL200/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S21fL2		4					
	up to 11000	4500	4000			SC200/150C(F) SCR200/150(SL500)F SCR200/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S22f		4					
						SC200/150C(L)F SCL200/150A(SL500)F SCL200/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S22fL		4					
	up to 11000	4500	4000			SC200/150C(L2)F SCL200/150A(SL500)F SCL200/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S22fL2		4					

* For External Wall Schedule, please contact our local representative.
* We supply for other wall thickness (75, 125, 150, 300 and etc.)

Quick StiFlex Selection Schedule: Non-load Bearing (for *Internal Walls)

Lightweight / Concrete Precast Wall Panel

| Assumed to have 3mm to 7mm of skim coat each side |

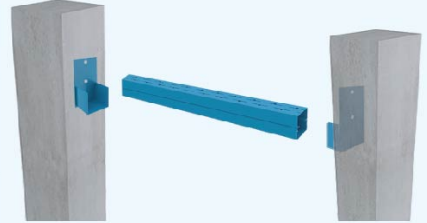
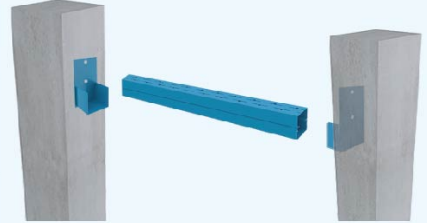
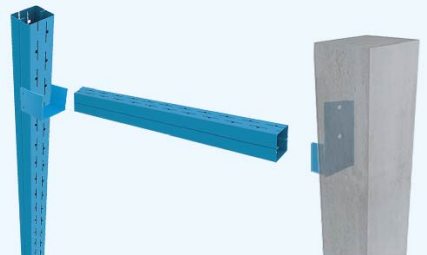
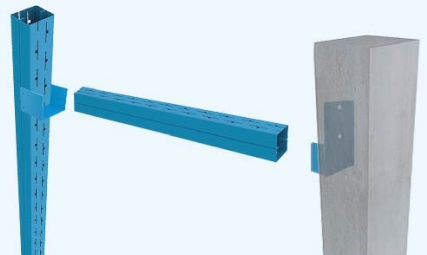
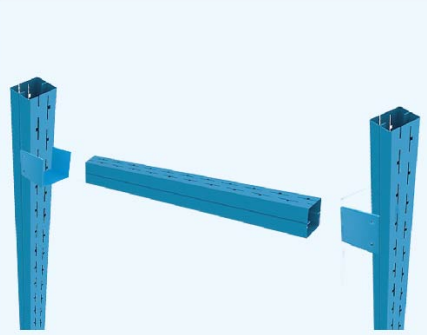
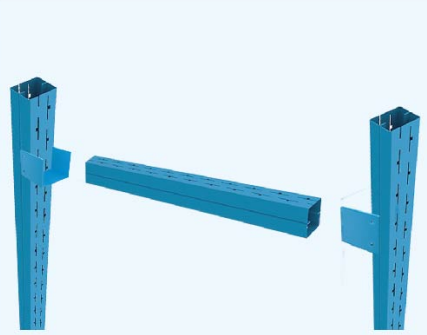
Wall thickness (mm)	Wall height (mm)	Vertical Stiffener span (mm)	Horizontal Stiffener span (mm)	Picture Description	Picture Description	Vertical StiFlex Stiffeners					Horizontal StiFlex Stiffeners				
						StiFlex Codes	Description	Assigned Codes	Section Size	Fire Rating	StiFlex Codes	Description	Assigned Codes	Section Size	Fire Rating
100	up to 3300	4200	-			SC100/90(F) SCR100/90(SL500)F SCL100/90(SL180)	StiFlex Member End Connector (top) End Connector (base)	S01f		2 & 4	NO HORIZONTAL STIFFENER				
	up to 4500	4200	3300			SC100/90(F) SCR100/90(SL500)F SCL100/90(SL180)	StiFlex Member End Connector (top) End Connector (base)	S01f		2 & 4					
	up to 5400	4200	3300			SC100/90(L)F SCL100/90A(SL500)F SCL100/90B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S01fL		2 & 4					
						SC100/150A(F) SCR100/150(SL500)F SCL100/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S02f		2 & 4					
	up to 6000	4200	3300			SC100/150A(L)F SCL100/150A(SL500)F SCL100/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S02fL		2 & 4	SC100/90(F) SCR100/90(SL500)F SCL100/90(SL500)F	StiFlex Member Side Connector (to StiFlex) Side Connector (to StiFlex)	S01fs		2 & 4
						SC100/150C(F) SCR100/150(SL500)F SCL100/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S03f		2 & 4					
	up to 6400	4200	3300			SC100/150C(L)F SCL100/150A(SL500)F SCL100/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S03fL		2 & 4					
						SC100/150d(F) SCL100/150d(SL500)F SCL100/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S04fL		2 & 4					
	up to 7300	4200	3300			SC100/150(F) SCR100/150(SL500)F SCL100/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S05f		2 & 4					
						SC100/150(L)F SCL100/150A(SL500)F SCL100/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S05fL		2 & 4					
200	up to 3300	4800	-			SC200/150(F) SCR200/150(SL500)F SCL200/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S21f		4	NO HORIZONTAL STIFFENER				
	up to 8000	4800	3300			SC200/150(F) SCR200/150(SL500)F SCL200/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S21f		4					
	up to 9000	4800	3300			SC200/150(L)F SCL200/150A(SL500)F SCL200/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S21fL		4	SC200/150(F) SCR200/150(SL500)F SCL200/150(SL500)F	StiFlex Member Side Connector (to StiFlex) Side Connector (to StiFlex)	S21fs		4
						SC200/150(L2)F SCL200/150A(SL500)F SCL200/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S21fL2		4					
	up to 9000	4800	3300			SC200/150C(F) SCR200/150(SL500)F SCL200/150(SL180)	StiFlex Member End Connector (top) End Connector (base)	S22f		4					
						SC200/150C(L)F SCL200/150A(SL500)F SCL200/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S22fL		4					
						SC200/150C(L2)F SCL200/150A(SL500)F SCL200/150B(SL500)F	StiFlex Junction Junction Connector (top) Junction Connector (base)	S22fL2		4					

* For External Wall Schedule, please contact our local representative.
* We supply for other wall thickness (75, 125, 150, 300 and etc.)

Quick StiFlex Selection Schedule: Horizontal Loadbearing (for *Internal Walls)

With Plaster Finish

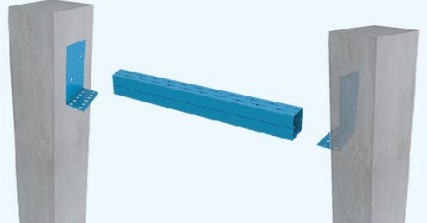
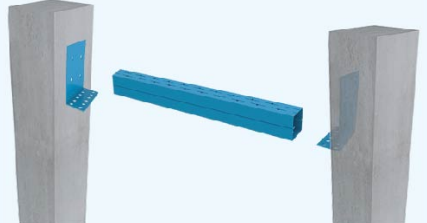
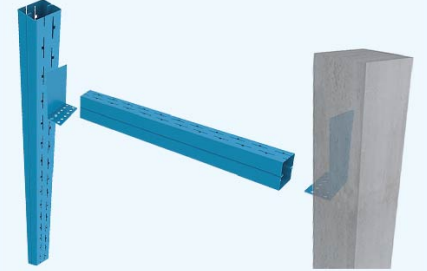
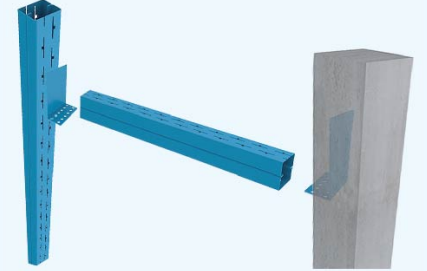
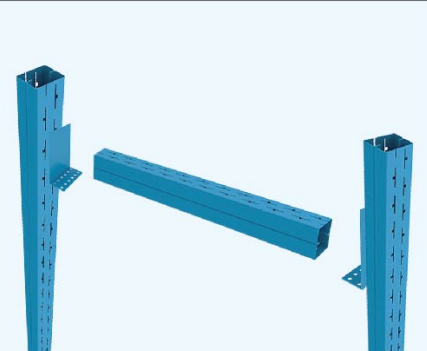
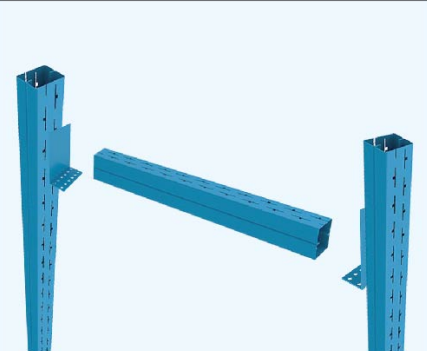
| Assumed to have 13mm to 25mm of plaster finish |

Wall thickness (mm)	Allowable Load Above Lintel (tonne)	StiFlex Codes	Description	Assigned Codes
100	1.05	LSC125/100(IF) BBC/295/122/8 BBC/295/122/8		L11fr
	1.65	LSC125/150A(IF) BBC/295/122/8 BBC/295/122/8		L12fr
200	2.05	LSC200/150(IF) BBC/445/196/8 BBC/445/196/8		L21fr
	2.50	LSC200/150x2(IF) BBC/445/196/8 BBC/445/196/8		L23fr
100	1.05	LSC125/100(IF) BBC/295/122/8 BBS/150/110/120/3		L11fs
	1.65	LSC125/150A(IF) BBC/295/122/8 BBS/150/110/120/3		L12fs
200	2.05	LSC200/150(IF) BBC/445/196/8 BBS/150/185/150/3		L21fs
	2.50	LSC200/150x2(IF) BBC/445/196/8 BBS/150/185/150/3		L23fs
100	1.05	LSC125/100(IF) BBS/150/110/120/3 BBS/150/110/120/3		L11fs
	1.65	LSC125/150A(IF) BBS/150/110/120/3 BBS/150/110/120/3		L12fs
200	2.05	LSC200/150(IF) BBS/150/185/150/3 BBS/150/185/150/3		L21fs
	2.50	LSC200/150x2(IF) BBS/150/185/150/3 BBS/150/185/150/3		L23fs

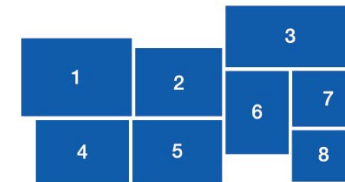
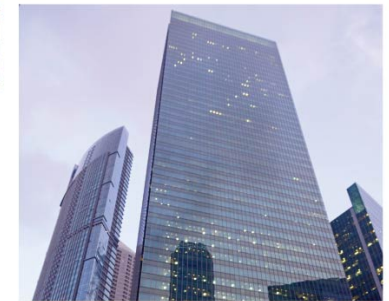
Quick StiFlex Selection Schedule: Horizontal Loadbearing (for *Internal Walls)

With Skim Coat Finish

| Assumed to have 3mm to 7mm of skim coat |

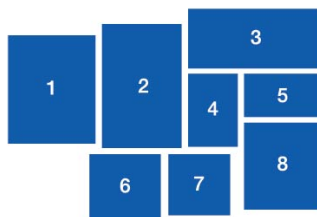
Wall thickness (mm)	Allowable Load Above Lintel (tonne)	StiFlex Codes	Description	Assigned Codes
100	0.88	LSC125/100(IF) LAC10M8 LAC10M8		L11fr
	1.76	LSC100/150A(IF) 2xLAC10M8 2xLAC10M8		L02fr
200	2.04	LSC200/150(IF) LAC20M8 LAC20M8		L21fr
	4.08	LSC200/150x2(IF) 2xLAC20M8 2xLAC20M8		L23fr
100	0.88	LSC125/100(IF) LAC10M8 LAC10N		L11fs
	1.76	LSC100/150A(IF) 2xLAC10M8 2xLAC10N		L02fs
200	2.04	LSC200/150(IF) LAC20M8 LAC20N		L21fs
	4.08	LSC200/150x2(IF) 2xLAC20M8 2xLAC20N		L23fs
100	0.88	LSC125/100(IF) LAC10N LAC10N		L11fs
	1.76	LSC100/150A(IF) 2xLAC10N 2xLAC10N		L02fs
200	2.04	LSC200/150(IF) LAC20N LAC20N		L21fs
	4.08	LSC200/150x2(IF) 2xLAC20N 2xLAC20N		L23fs

StiFlex
Project References
Commercial

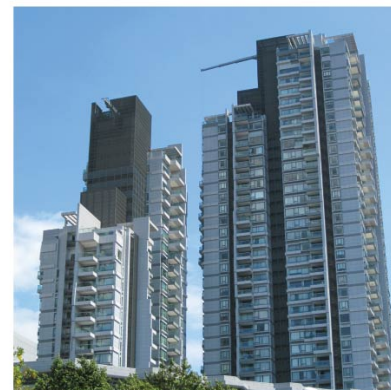


1. Marina Bay Sands
2. Crowne Plaza Hotel Changi Airport
3. Paragon
4. Resort World Sentosa
5. ION Orchard
6. Fusionopolis
7. Marina Bay Financial Centre
8. One Raffles Quay

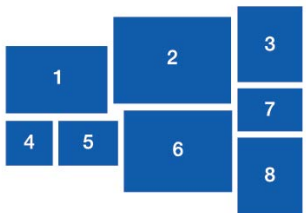
StiFlex
Project References
Residential



1. The Sail Condominium
2. St. Regis Hotel & Residences
3. Citylights Condominium
4. Orchard View Condominium
5. Caribbean at Keppel Bay Condominium
6. Sky Habitat Condominium
7. Concourse Skyline Condominium
8. The Pier at Robertson Condominium



StiFlex
Project References
Institutional



1. United World College
2. NUS - University Cultural Centre Hall
3. Housing and Development Board Hub
4. Nanyang Academy of Fine Arts
5. National Heart Centre at SGH
6. Khoo Teck Puat Hospital
7. National Library Board
8. Singapore Management University

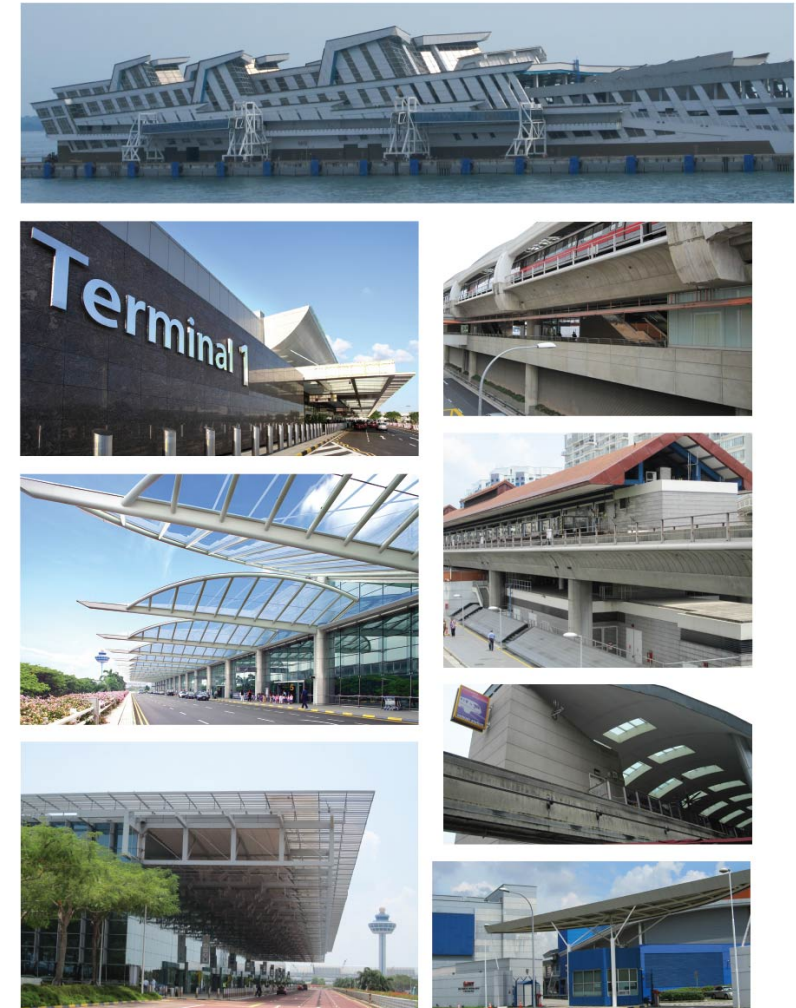
StiFlex
Project References
Industrial



1	2
3	4
5	6
7	8

1. Intel-Micron Flash Plant at Senoko
2. Soitec Plant at Pasir Ris
3. Siltronic Samsung Wafer Plant at Tampines
4. Renewable Energy Corporation (REC) Plant at Tuas
5. Seagate Technology at Woodlands
6. Abbott Manufacturing at Tuas
7. Mead Johnson Supply Centre at Tuas
8. JTC Surface Engineering Hub at Tanjong Kling

StiFlex
Project References
Infrastructural



1	
2	3
4	5
6	7
	8

1. International Cruise Terminal
2. Changi Airport Terminal 1
3. Joo Koon MRT Station
4. Changi Airport Terminal 2
5. Boon Lay MRT Station
6. Changi Airport Terminal 3
7. Sentosa Imbiah LRT Station
8. Kim Chuan Depot

Sample Specifications For Modular Stiffeners

System

The masonry stiffeners shall comprise a fully modular system eliminating all site fabrication works such as cutting, welding, drilling, etc.

The modular stiffener system connection details shall incorporate ability for adjustments in length for both vertical and horizontal members of up to 250mm to eliminating the need for any site measurements.

Material

The stiffeners shall be manufactured with steel of minimum yield strength 260N/mm². All components shall be powder-coated to achieve minimum 70 microns, providing adequate corrosion protection. Alternatively, hot dipped galvanised finishing is available upon request.

Design Standard

Design of the stiffener system shall be the responsibility of the supplier. The design shall be in accordance with the current relevant version of BS5950 or a similar approved applicable international design code. Vertical and horizontal loads and spacing limitations to be adopted for the stiffener design shall be as specified by the project structural engineer, or otherwise subject to applicable and established standard/s for safe wall spans.

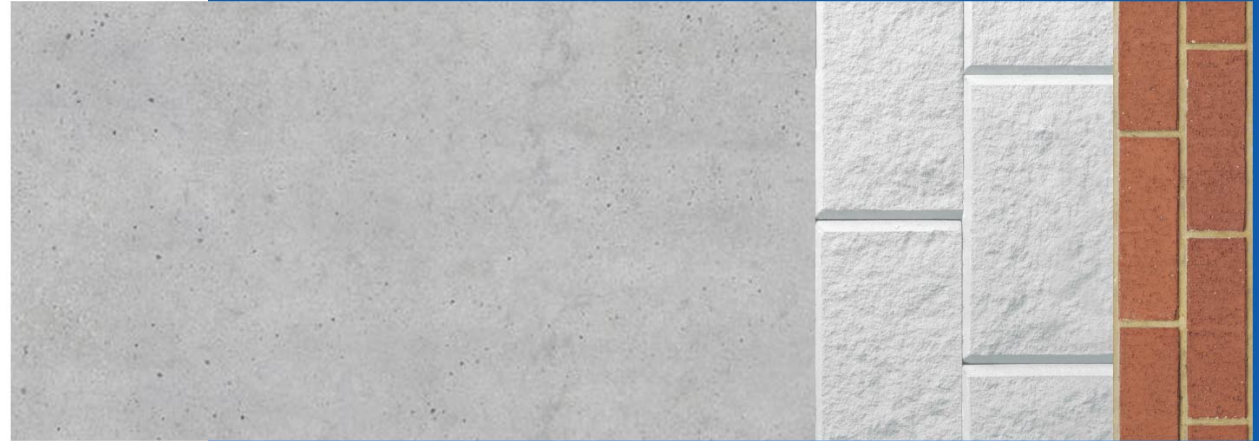
Stiffener Documentation

The supplier shall provide clear documentation detailing the member types and connection details to be used for all masonry walls where stiffeners are required within the project.

Conformance Tested

Test reports from a certified testing agency shall be provided to confirm that the stiffener system, when tested in accordance with relevant British or other internationally recognised codes, provides equal or better performance compared to reinforced concrete stiffeners in the following aspects:


- a. Fire-resistance (1-hour, 2-hour and 4-hour)
- b. Sound insulation (Minimum STC 49)
- c. Condensation moisture resistance
- d. Thermal conductance resistance





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