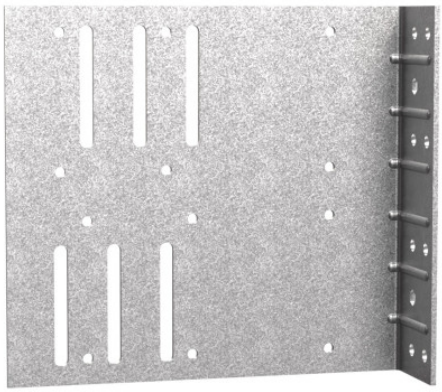
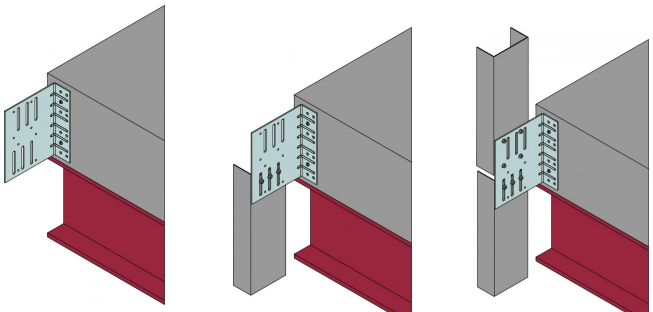
Technical data sheet

LGSSC
Light Gauge Steel Splicing Clip

The LGSSC is a Universal Oversail Splice Bracket designed to connect light gauge steel studs to the primary structure in continuous walling installations.
The LGSSC provides a secure connection to the floor slab whilst allowing for up to 50mm of vertical adjustment between butt jointed light gauge steel studs.





LGSSC Connector fixed to Primary Structure

Features

Features

- Suitable for use on oncrete or steel primary structures
- Accomodates up to 50mm movement between butt joint of Light Gauge Studs
- Suitable for light gauge studs thickness of 1.2mm to 1.6mm and widths 100mm to 150mm.
- Performance values for F_1 and F_3 load directions, when connected to concrete or steel RSJ.
- Maximum RSJ material thickness 12.5mm
- 50mm fastener edge distance required when fixed to concrete structures.

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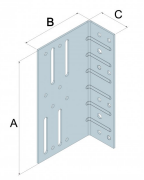
SIMPSON Strong-Tie

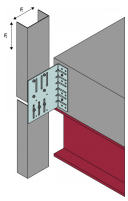
Technical Data

Product Dimensions



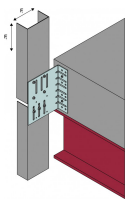
References	Product Dimensions [mm]				Holes Flange B		Holes Flange C		Weight [kg]
	A	B	C	t	Ø4.1	Slots Ø6.5x50	Ø6	Hexagonal	
LGSSC90	175	90	43	2.5	8	4	8	2	0.41
LGSSC140	175	140	43	2.5	8	6	8	2	0.56
LGSSC190	175	190	43	2.5	12	6	8	2	0.73
LGSSC240	175	240	43	2.5	12	6	8	2	0.9
LGSSC290	175	290	43	2.5	12	6	8	2	10.1

Product Capacities - 1.2mm Studs - Concrete Support



References	Fasteners Concrete Support						Characteristic Capacities [kN] - 1.2mm Studs - Fixing to Concrete	
	Flange B (Upper Stud)		Flange B (Lower Stud)		Flange C		$R_{1,k}$	$R_{3,k}$
	Qty	Type(1)	Qty	Type(2)	Qty	Type(3)		
LGSSC90	4	X1S	2	XLSH	2	TNT	9.6	17.4
LGSSC140	4	X1S	3	XLSH	2	TNT	9.6	17.4
LGSSC190	6	X1S	3	XLSH	2	TNT	9.6	17.4
LGSSC240	6	X1S	3	XLSH	2	TNT	9.6	17.4
LGSSC290	6	X1S	3	XLSH	2	TNT	9.6	17.4

Product Capacities - 1.2mm Studs - Steel Support



References	Fasteners Steel Support							
	Flange B (Upper Stud)		Flange B (Lower Stud)		Flange C		Characteristic Capacities [kN] - 1.2mm Studs - Fixing to Steel	
	Qty	Type(1)	Qty	Type(2)	Qty	Type(4)	$R_{1,k}$	$R_{3,k}$
LGSSC90	4	X1S	2	XLSH	8	XLQ	30.4	23.6
LGSSC140	4	X1S	3	XLSH	8	XLQ	30.4	23.6
LGSSC190	6	X1S	3	XLSH	8	XLQ	30.4	35.4
LGSSC240	6	X1S	3	XLSH	8	XLQ	30.4	35.4
LGSSC290	6	X1S	3	XLSH	8	XLQ	30.4	35.4

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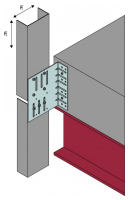
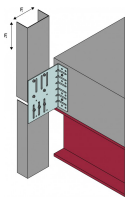


Product Capacities - 1.6mm Studs - Concrete Support

References	Fasteners Concrete Support						Characteristic Capacities [kN] - 1.6mm Studs - Fixing to Concrete	
	Flange B (Upper Stud)		Flange B (Lower Stud)		Flange C		$R_{1,k}$	$R_{3,k}$
	Qty	Type(1)	Qty	Type(2)	Qty	Type(3)		
LGSSC90	4	X1S	2	XLSH	2	TNT	9.6	17.4
LGSSC140	4	X1S	3	XLSH	2	TNT	9.6	17.4
LGSSC190	6	X1S	3	XLSH	2	TNT	9.6	17.4
LGSSC240	6	X1S	3	XLSH	2	TNT	9.6	17.4
LGSSC290	6	X1S	3	XLSH	2	TNT	9.6	17.4



Product Capacities - 1.6mm Studs - Steel Support

References	Fasteners Steel Support						Characteristic Capacities [kN] - 1.6mm Studs - Fixing to Steel	
	Flange B (Upper Stud)		Flange B (Lower Stud)		Flange C		$R_{1,k}$	$R_{3,k}$
	Qty	Type(1)	Qty	Type(2)	Qty	Type(4)		
LGSSC90	4	X1S	2	XLSH	8	XLQ	30.4	34.8
LGSSC140	4	X1S	3	XLSH	8	XLQ	30.4	34.8
LGSSC190	6	X1S	3	XLSH	8	XLQ	30.4	52.2
LGSSC240	6	X1S	3	XLSH	8	XLQ	30.4	52.2
LGSSC290	6	X1S	3	XLSH	8	XLQ	30.4	52.2

(1) X1S1214 Screws used to secure the upper stud to the connector
(2) XLSH34B1414 Screws used to secure the lower stud to the connector
(3) TTN25134H Concrete Screws used to secure the connector the concrete floor slab
(4) XLQ114B1224 Screws used to secure the connector the Steel Beam

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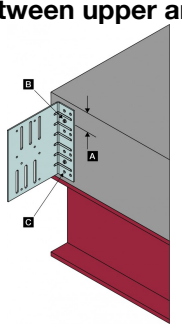
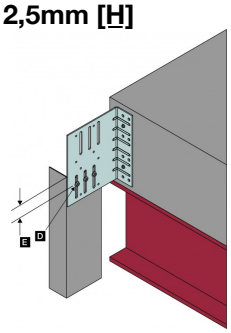
Installation

Installation Sequence

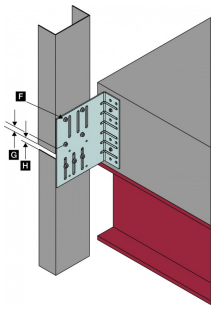
1) Connect to Primary Structure
Secure connector to primary structure with specified fasteners (2 No. TNT through hexagonal holes for concrete support [B] or 8 No XLQ through round holes for steel support [C]) . When connecting to a concrete support a minimum fastener edge distance of 50mm is required [A]
2) Install Lower Stud
Secure lower stud with specified number of XLSH screws into the movement slots [D]. Screws are to be fixed centrally within the movement slots, allowing a vertical movement of the lower stud. A minimum end distance of 12.5mm is required [E].
3) Install Upper Stud
Secure upper stud with specified number of X1S screws through the round holes [F], ensuring that the lower screws are a minimum of 12.5mm from the bottom end of steel stud [G]. Minimum gap between upper and lower studs is 12,5mm [H]



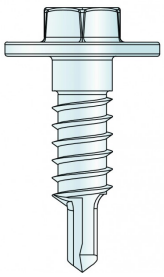
1) Connect to Primary Structure

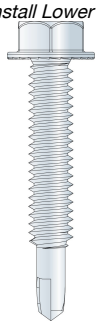


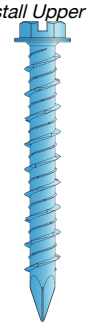
2) Install Lower Stud

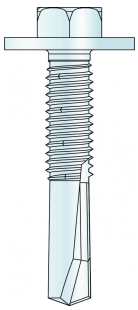


3) Install Upper Stud


XLSH - Lower Stud to LGSSC


X1S - Upper Stud to LGSSC


TNT- LGSSC to Concrete Structure


XLH - LGSSC to Steel Structure

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