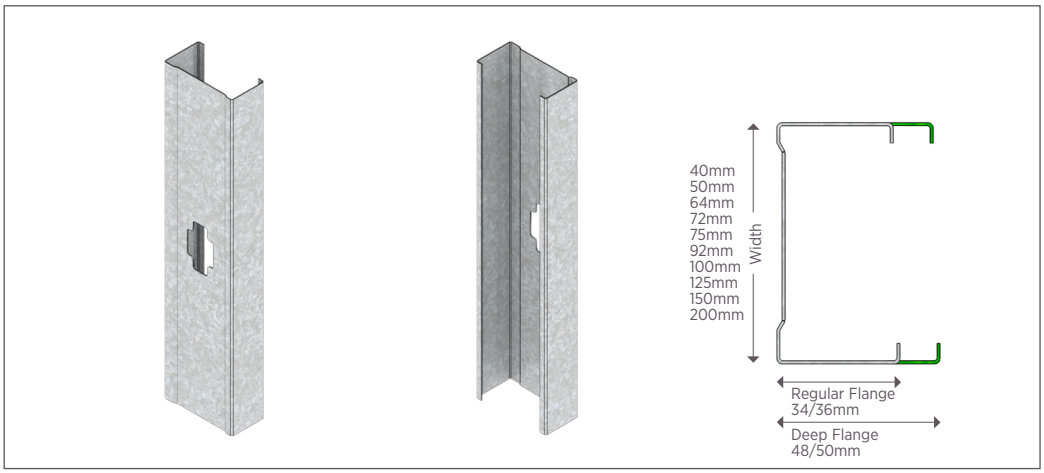
TECHNICAL DATASHEET

DRYWALL STUDS C SHAPE

Regular and Deep Flange

ST	35	100	-050
Stud	Flange	Width	Thickness



DESCRIPTION

- The C Stud serves as a fundamental component within USG ME drywall suspension system, enhancing both interior and exterior construction applications. Positioned vertically as C channels, the C Stud seamlessly connects the top and bottom tracks, providing robust support for wall boards.
- Our C Stud comes in two variants: the regular flange stud and the deep flange stud. These options cater to diverse project requirements, ensuring optimal compatibility and flexibility during the construction. With a focus on durability and precision, our C Stud is engineered to uphold the integrity of your wall installations, setting a strong foundation for superior architectural outcomes.

MATERIAL PROPERTIES

- **Thickness:** 0.45-1.5mm

Stud Width	Track Width (mm)									
	40	50	64	72	75	92	100	125	150	200
Thickness (0.45-0.6mm)	38.8	48.8	62.8	70.8	73.8	90.8	98.8	123.8	148.8	198.8
Thickness (0.7-1.5mm)	38.2	48.2	62.2	70.2	73.2	90.2	98.2	123.2	148.2	198.2

- **Regular Flange:** 34/36mm
- **Deep Flange:** 48/50mm. For widths up to 100mm only
- **Length:** Standard 3m. Custom made from 1m up-to 20m
- **Galvanization:** G40-G90 Zinc coating, Yield stress, Fy 33 ksi Ultimate

PACKAGING

Regular Flange Stud (34/36 mm)			Deep Flange Stud (48/50 mm)	
Width	0.45 to 0.6 mm	0.7 to 1.5 mm	Width	
50 mm	300 Pcs	300 Pcs	50 mm	240 Pcs
64 mm	288 Pcs	288 Pcs	64 mm	192 Pcs
72 mm	260 Pcs	240 Pcs	75 mm	160 Pcs
75 mm	260 Pcs	240 Pcs	92 mm	128 Pcs
92 mm	192 Pcs	192 Pcs	100 mm	112 Pcs
100 mm	168 Pcs	168 Pcs	125 mm	96 Pcs
125 mm	144 Pcs	144 Pcs	150 mm	80 Pcs
150 mm	120 Pcs	120 Pcs	200 mm	64 Pcs

USG ME
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SECTION & MATERIAL PROPERTIES

									Steel Mechanical Properties		
Studs Type	**Thickness (mm)**	**Flange (mm)**	**Width (mm)**	**Section Area (mm^2)**	**Centroid (mm)**	**Moment of inertia (Ixx)(mm^4)**	**Section Modulus (Sx)(mm^3)**	**Radius of Gyration (mm)**	**Yield strength N/mm^2**	**Tensile strength N/mm^2**	**Elongation (%)**
Regular Flange	0.45	34 / 36	40	51.30	19.670	16,282.0	801.0	17.8	297-308	366-372	28-29
	0.50	34 / 36		57.00	19.675	18,056.0	888.0	17.8	297-308	366-372	29-30
	0.55	34 / 36		62.70	19.676	19,824.0	975.0	17.8	297-308	366-372	29-30
	0.60	34 / 36		68.40	19.677	21,585.0	1,062.0	17.8	297-308	366-372	29-30
	0.70	34 / 36		79.80	19.677	25,086.0	1,234.5	17.7	297-308	366-372	30-31
	0.80	34 / 36		91.20	19.678	28,561.6	1,405.5	17.7	297-308	366-372	30-31
	0.90	34 / 36		102.60	19.679	32,009.5	1,575.2	17.7	297-308	366-372	30-31
	1.00	34 / 36		114.00	19.680	35,430.7	1,743.6	17.6	297-308	366-372	30-31
	1.20	34 / 36		136.80	19.681	42,193.0	2,076.7	17.6	297-308	366-372	30-31
	1.50	34 / 36		171.00	19.684	52,141.0	2,566.6	17.5	297-308	366-372	31-32
	0.45	34 / 36	50	56.25	24.624	26,636.0	1,049.7	21.8	297-308	366-372	28-29
	0.50	34 / 36		62.50	24.625	29,552.0	1,164.6	21.7	297-308	366-372	29-30
	0.55	34 / 36		68.75	24.625	32,460.0	1,279.3	21.7	297-308	366-372	29-30
	0.60	34 / 36		75.00	24.626	35,359.7	1,393.5	21.7	297-308	366-372	29-30
	0.70	34 / 36		87.50	24.626	41,132.7	1,621.0	21.7	297-308	366-372	30-31
	0.80	34 / 36		94.40	24.627	46,871.7	1,847.3	22.3	297-308	366-372	30-31
	0.90	34 / 36		106.20	24.616	50,813.5	2,001.8	21.9	297-308	366-372	30-31
	1.00	34 / 36		118.00	24.617	56,293.9	2,217.8	21.8	297-308	366-372	30-31
	1.20	34 / 36		141.60	24.618	67,157.0	2,645.9	21.8	297-308	366-372	30-31
	1.50	34 / 36		177.00	24.621	83,209.7	3,278.7	21.7	297-308	366-372	31-32
	0.45	34 / 36	64	63.00	31.564	46,172.0	1,423.5	27.1	297-308	366-372	28-29
	0.50	34 / 36		70.00	31.565	51,246.8	1,579.9	27.1	297-308	366-372	29-30
	0.55	34 / 36		77.00	31.565	56,310.6	1,736.2	27.0	297-308	366-372	29-30
	0.60	34 / 36		84.00	31.566	61,363.4	1,891.9	27.0	297-308	366-372	29-30
	0.70	34 / 36		92.40	31.566	71,436.0	2,202.5	27.8	297-308	366-372	30-31
	0.80	34 / 36		105.60	31.555	78,748.9	2,427.2	27.3	297-308	366-372	30-31
	0.90	34 / 36		118.80	31.555	88,400.3	2,724.7	27.3	297-308	366-372	30-31
	1.00	34 / 36		132.00	31.556	98,009.4	3,020.9	27.2	297-308	366-372	30-31
	1.20	34 / 36		158.40	31.558	117,101.4	3,609.5	27.2	297-308	366-372	30-31
	1.50	34 / 36		198.00	31.559	145,426.0	4,482.9	27.1	297-308	366-372	31-32
	0.45	34 / 36	72	67.05	35.535	60,186.0	1,650.5	30.0	297-308	366-372	28-29
	0.50	34 / 36		74.50	35.535	66,811.4	1,832.3	29.9	297-308	366-372	29-30
	0.55	34 / 36		81.95	35.536	73,423.9	2,013.6	29.9	297-308	366-372	29-30
	0.60	34 / 36		89.40	35.536	80,024.0	2,194.6	29.9	297-308	366-372	29-30
	0.70	34 / 36		99.40	35.525	90,110.1	2,470.4	30.1	297-308	366-372	30-31
	0.80	34 / 36		113.60	35.525	102,790.0	2,818.1	30.1	297-308	366-372	30-31
	0.90	34 / 36		127.80	35.526	115,422.0	3,164.5	30.1	297-308	366-372	30-31
	1.00	34 / 36		142.00	35.527	128,006.4	3,509.6	30.0	297-308	366-372	30-31
	1.20	34 / 36		170.40	35.528	153,032.6	4,195.9	30.0	297-308	366-372	30-31
	1.50	34 / 36		213.00	35.530	190,217.6	5,215.7	29.9	297-308	366-372	31-32
	0.45	34 / 36	75	67.50	37.025	66,007.3	1,738.2	31.3	297-308	366-372	28-29
	0.50	34 / 36		75.00	37.025	73,276.5	1,929.6	31.3	297-308	366-372	29-30
	0.55	34 / 36		82.50	37.025	80,532.6	2,120.7	31.2	297-308	366-372	29-30
	0.60	34 / 36		90.00	37.027	87,775.8	2,311.5	31.2	297-308	366-372	29-30
	0.70	34 / 36		100.10	37.026	102,223.6	2,692.0	32.0	297-308	366-372	30-31
	0.80	34 / 36		114.40	37.015	112,784.4	2,969.2	31.4	297-308	366-372	30-31
	0.90	34 / 36		128.70	37.015	126,656.0	3,334.5	31.4	297-308	366-372	30-31
	1.00	34 / 36		143.00	37.016	140,478.9	3,698.4	31.3	297-308	366-372	30-31
	1.20	34 / 36		171.60	37.017	167,975.0	4,422.5	31.3	297-308	366-372	30-31
	1.50	34 / 36		214.50	37.020	208,849.9	5,498.9	31.2	297-308	366-372	31-32
	0.45	34 / 36	92	75.60	45.474	105,176.0	2,260.6	37.3	297-308	366-372	28-29
	0.50	34 / 36		84.00	45.474	116,782.3	2,510.0	37.3	297-308	366-372	29-30
	0.55	34 / 36		92.40	45.475	128,372.7	2,759.2	37.3	297-308	366-372	29-30
	0.60	34 / 36		100.80	45.475	139,947.2	3,008.0	37.3	297-308	366-372	29-30
	0.70	34 / 36		112.00	45.475	163,048.5	3,504.6	38.2	297-308	366-372	30-31
	0.80	34 / 36		128.00	45.363	180,140.0	3,870.9	37.5	297-308	366-372	30-31
	0.90	34 / 36		144.00	45.464	202,379.6	4,348.9	37.5	297-308	366-372	30-31
	1.00	34 / 36		160.00	45.464	224,558.9	4,825.5	37.5	297-308	366-372	30-31
	1.20	34 / 36		192.00	45.465	268,731.3	5,774.9	37.4	297-308	366-372	30-31
	1.50	34 / 36		240.00	45.467	334,535.0	7,189.3	37.3	297-308	366-372	31-32

SECTION & MATERIAL PROPERTIES

									Steel Mechanical Properties		
Stud Type	**Thickness (mm)**	**Flange (mm)**	**Width (mm)**	**Section Area (mm^2)**	**Centroid (mm)**	**Moment of inertia (Ixx)(mm^4)**	**Section Modulus (Sx)(mm^3)**	**Radius of Gyration (mm)**	**Yield strength N/mm^2**	**Tensile strength N/mm^2**	**Elongation (%)**
Regular Flange	0.45	34 / 36	100	79.20	49.453	127,455.6	2,521.5	40.1	28-29	28-29	28-29
	0.50	34 / 36		88.00	49.453	141,530.5	2,800.0	40.1	29-30	29-30	29-30
	0.55	34 / 36		96.80	49.453	155,588.0	3,078.1	40.1	29-30	29-30	29-30
	0.60	34 / 36		105.60	49.454	169,628.2	3,355.9	40.1	29-30	29-30	29-30
	0.70	34 / 36		117.60	49.454	197,656.8	3,910.5	41.0	30-31	30-31	30-31
	0.80	34 / 36		134.40	49.442	218,516.6	4,322.2	40.3	30-31	30-31	30-31
	0.90	34 / 36		151.20	49.443	245,528.8	4,856.5	40.3	30-31	30-31	30-31
	1.00	34 / 36		168.00	49.444	272,474.3	5,389.5	40.3	30-31	30-31	30-31
	1.20	34 / 36		201.60	49.445	326,165.6	6,451.7	40.2	30-31	30-31	30-31
	1.50	34 / 36		252.00	49.446	406,205.0	8,035.2	40.1	31-32	31-32	31-32
	0.55	34 / 36	125	154.40	61.898	261,923.8	4,150.9	41.2	29-30	29-30	29-30
	0.60	34 / 36		173.70	61.899	285,604.6	4,526.2	40.5	29-30	29-30	29-30
	0.70	34 / 36		193.00	61.899	332,901.4	5,275.7	41.5	30-31	30-31	30-31
	0.80	34 / 36		154.40	61.888	368,747.7	5,842.8	48.9	30-31	30-31	30-31
	0.90	34 / 36		173.70	61.888	414,462.3	6,567.2	48.8	30-31	30-31	30-31
	1.00	34 / 36		193.00	61.889	460,093.2	7,290.2	48.8	30-31	30-31	30-31
	1.20	34 / 36		231.60	61.890	551,104.3	8,732.5	48.8	30-31	30-31	30-31
	1.50	34 / 36		289.50	61.892	686,996.5	10,886.0	48.7	31-32	31-32	31-32
	0.55	34 / 36	150	174.40	74.344	392,384.8	5,186.5	47.4	297-308	366-372	29-30
	0.60	34 / 36		196.20	74.345	427,904.0	5,656.0	46.7	297-308	366-372	29-30
	0.70	34 / 36		218.00	74.356	513,426.6	6,787.4	48.5	297-308	366-372	30-31
	0.80	34 / 36		174.40	74.345	569,728.0	7,530.7	57.2	297-308	366-372	30-31
	0.90	34 / 36		196.20	74.346	640,488.7	8,466.0	57.1	297-308	366-372	30-31
	1.00	34 / 36		218.00	74.346	711,148.6	9,400.1	57.1	297-308	366-372	30-31
	1.20	34 / 36		261.60	74.347	852,166.9	11,264.2	57.1	297-308	366-372	30-31
	1.50	34 / 36		327.00	74.348	1,062,942.2	14,050.5	57.0	297-308	366-372	31-32
Deep Flange	0.80	48 / 50	50	123.20	24.693	60,431.0	2,387.9	22.1	297-308	366-372	30-31
	0.90			138.60	24.693	67,769.5	2,677.9	22.1	297-308	366-372	30-31
	1.20			184.80	24.695	89,502.7	3,537.0	22.0	297-308	366-372	30-31
	0.80	48 / 50	64	134.40	31.636	103,837.4	3,208.5	27.8	297-308	366-372	30-31
	0.90			151.20	31.637	116,540.0	3,601.1	27.8	297-308	366-372	30-31
	1.20			201.60	31.639	154,283.1	4,767.6	27.7	297-308	366-372	30-31
	0.80	48 / 50	75	143.20	37.098	147,457.0	3,890.6	32.1	297-308	366-372	30-31
	0.90			161.10	37.099	165,563.5	4,368.4	32.1	297-308	366-372	30-31
	1.20			214.80	37.101	219,453.680	5,790.5	32.0	297-308	366-372	30-31
	0.80	48 / 50	92	156.80	45.548	232,670.7	5,008.9	38.5	297-308	366-372	30-31
	0.90			176.40	45.549	261,353.9	5,626.4	38.5	297-308	366-372	30-31
	1.20			235.20	45.550	346,874.4	7,467.8	38.4	297-308	366-372	30-31
	0.80	48 / 50	100	163.20	49.527	280,730.960	5,562.1	41.5	297-308	366-372	30-31
	0.90			183.60	49.528	315,386.5	6,248.8	41.4	297-308	366-372	30-31
	1.20			244.80	49.529	418,776.7	8,297.5	41.4	297-308	366-372	30-31
	0.80	48 / 50	150	203.20	74.426	711,025.3	9,408.4	59.2	297-308	366-372	30-31
	0.90			228.60	74.426	799,247.1	10,575.8	59.1	297-308	366-372	30-31
	1.50			381.00	74.430	1,334,743.0	17,809.0	59.2	297-308	366-372	30-31
	2.00			508.00	75.600	1,779,659.0	23,648.0	59.2	297-308	366-372	30-31
	0.80	48 / 50	200	243.20	99.357	1,401,316.7	13,923.7	75.9	297-308	366-372	30-31
	0.90			273.60	99.357	1,575,604.5	15,655.5	75.9	297-308	366-372	30-31
	1.50			456.00	100.600	2,647,015.0	26,341.0	75.8	297-308	366-372	30-31
	2.00			608.00	100.600	3,520,530.0	35,025.0	75.8	297-308	366-372	30-31

ASTM & CODE STANDARDS

- Wall studs are produced to meet ASTM C645 and C955
- Galvanized sheet steel meets requirements of ASTM A-653
- For installation & storage information refer to ASTM C1007 & C754

GREEN BENEFITS AND RECYCLED CONTENT

- LEED Credit MR 2 – USG ME products are manufactured from cold formed steel. Steel is 100% recyclable, which helps divert debris from the waste stream.
- LEED Credit MR 4 – USG ME steel products have a minimum of 25.5% post-consumer recycled content, and 6.8% pre-consumer.

REFERENCES

For further health and safety instructions, refer to the Safety Data Sheet (SDS) for this product, available from your USG Middle East sales office or **USGme.com**

USG ME
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This technical datasheet is intended for global use in regions where USG ME has authorized sales territories.