



NOTES

1. Before manufacturing all members and details shall be checked by an assembly test on the prototype.
2. All dimensions are in mm.
3. All angle profiles are with equal legs.
4. Materials:
  - M means mild steel S235 JRG2 or S275 JR from EN 10025 (or equivalent steel).
  - H means high tensile steel S355 JR from EN 10025 (or equivalent steel).
  - Bolts quality 6.8 (according to EN ISO 898-1 or equivalent).
  - TW16/6 means filler thickness 6 for bolt M16 a.s.o.
5. All bolts are provided with single spring washer fitted underneath the nut.  
The thread shall project through the nut with min. 3 threads and max. 15mm.
6. All material shall be galvanized acc. to BS EN ISO 1461:2009:
  - members with thickness of 6mm or greater - 85µm (610g/m<sup>2</sup>)
  - members with thickness less than 6mm - 70µm
  - bolts - 45µm

00	11/11/14	First issue;			
REV.	dd/mm/yy	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED
<div><div></div><div><div>CG Holdings Belgium NV</div><div>Systems Division</div><div><div>Antwerpsesteenweg 167, B-2800 Mechelen</div><div>Tel. : +32(0)15/283 333   Fax : +32(0)15/283 491</div><div>www.cgglobal.com</div></div></div></div>			CLIENT:		
			MINISTRY OF ENERGIE - REPUBLIC OF KENYA		
<div>ISO Symbol: </div> <div>SCALE: --/--</div> <div>LAYOUT: A4</div>			DRAWING TITLE :		
			132 kV OHL Nanyuki - Isiolo - Meru Type 3S for Tower Type 3S - Bill of Materials		
THIS DRAWING SHALL NOT BE COPIED,REPRODUCED,TRANSMITTED OR GRANTED TO THIRD PARTIES WITHOUT OUR PRIOR AGREEMENT			DRAWING No.: 100008-L1-DG-ST20		

	Drawing Number	Black Steel Weight [kg]	Qty per tower [-]	Black Steel Weight per tower [kg]
Peak	100008-L1-DG-ST13	70.59	2	141.17
Crossarm C1	100008-L1-DG-ST13	74.33	2	148.65
Crossarm C2	100008-L1-DG-ST15	513.89	2	1027.78
Bridge	100008-L1-DG-ST14	599.22	1	599.22
K Frame	100008-L1-DG-ST16	1225.89	1	1225.89
Panel 1	100008-L1-DG-ST17	1869.02	1	1869.02
Leg	100008-L1-DG-ST18	1700.75	1	1700.75
Total Tower 3S	-	-	-	6712.48

Stub Angle for Foundations Types "3SF1" And "3SF2" Without Chimney Extension

Stub Angle	100008-L1-DG-ST11	132.53	1 set	132.53
Total Tower 3S	-	-	-	6845.02

Stub Angle for Foundations Types "3SF1" And "3SF2" With Chimney Extension

Stub Angle	100008-L1-DG-ST11	157.47	1 set	157.47
Total Tower 3S	-	-	-	6869.95

Mark	Description	Length [mm]	Qty. [-]	Black Steel Weight [kg]
3S-25	L50x50x6H	1414	1	6.32
3S-26	L50x50x6H	1414	1	6.32
3S-27	L50x50x6H	2250	1	10.06
3S-28	L50x50x6H	2250	1	10.06
3S-29	L40x40x4H	760	2	3.77
3S-30	L40x40x4H	766	2	3.80
3S-31	L80x80x6H	344	1	2.53
3S-32	L80x80x6H	344	1	2.53
3S-33	L100x100x10H	128	1	1.92
3S-34	L100x100x10H	128	1	1.92
3S-35	217x6H	97	1	2.41
3S-36	452x6M	238	1	4.04
3S-37	310x18H	160	1	6.61
3S-38	237x6H	60	1	0.60
3S-39	237x6H	60	1	0.60
3S-40	205x6H	71	1	0.50
3S-41	205x6H	71	1	0.50
		Total		64.48
	M14x30		6	0.54
	M14x35		46	4.42
	M16x40		4	0.52
	M16x55		4	0.62
		Total		6.10
	General Total			70.59

Bill of Materials  
for Tower Type 3S  
Crossarm C1

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-51	L60x60x6H	2484	1	13.46
3S-52	L60x60x6H	2484	1	13.46
3S-53	L60x60x5H	2318	1	10.59
3S-54	L60x60x5H	2318	1	10.59
3S-55	L40x40x4H	1301	2	6.45
3S-56	L40x40x4H	690	2	3.42
3S-57	L60x60x4H	92	1	0.34
3S-58	L60x60x4H	92	1	0.34
3S-59	L100x100x10H	128	1	1.92
3S-60	L100x100x10H	128	1	1.92
3S-61	184x6H	148	2	1.96
3S-62	130x6H	143	2	1.39
3S-63	187x6H	179	1	1.27
3S-64	181x6H	128	1	0.95
		Total		68.07
	M14x30		4	0.36
	M14x35		44	4.23
	M16x35		2	0.25
	M16x40		4	0.52
	M16x45		2	0.28
	M16x55		4	0.62
		Total		6.26
	General Total			74.33

Bill of Materials  
for Tower Type 3S  
Crossarm C2

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-301	L70x70x6H	2148	1	13.70
3S-302	L70x70x6H	2148	1	13.70
3S-303	L70x70x6H	4669	1	29.79
3S-304	L70x70x6H	4669	1	29.79
3S-305	L60x60x6H	3337	1	18.09
3S-306	L60x60x6H	3337	1	18.09
3S-307	L60x60x5H	5467	1	24.98
3S-308	L60x60x5H	5467	1	24.98
3S-309	L60x60x5H	3349	1	15.31
3S-310	L60x60x5H	3349	1	15.31
3S-311	L60x60x4H	1955	1	7.23
3S-312	L60x60x4H	1955	1	7.23
3S-313	L45x45x4H	1541	1	4.22
3S-314	L45x45x4H	1541	1	4.22
3S-315	L60x60x5H	2188	1	10.00
3S-316	L60x60x4H	2208	1	8.17
3S-317	L60x60x4H	1784	1	6.60
3S-318	L60x60x4H	1784	1	6.60
3S-319	L40x40x4H	772	1	1.91
3S-320	L40x40x4H	772	1	1.91
3S-321	L50x50x5H	1595	2	12.02
3S-322	L40x40x4H	253	2	1.26
3S-323	L40x40x4H	787	2	3.90
3S-324	L40x40x4H	474	1	1.18
3S-325	L40x40x4H	474	1	1.18
3S-326	L80x80x8H	175	1	1.69
3S-327	L80x80x8H	175	1	1.69
3S-328	L120x120x10H	111	1	2.02
3S-329	L120x120x10H	111	1	2.02
3S-330	L140x140x12H	246	1	6.27
3S-331	L50x50x5H	1507	1	5.68
3S-332	L50x50x5H	1507	1	5.68
3S-333	L50x50x5H	1484	1	5.60
3S-334	L50x50x5H	1484	1	5.60
3S-335	L45x45x4H	2445	1	6.70
3S-336	L90x90x8H	205	1	2.17
3S-337	L90x90x8H	205	1	2.17
3S-338	L45x45x4H	172	5	2.36
3S-339	L45x45x4H	1308	1	3.59
3S-340	L45x45x4H	1308	1	3.59
3S-341	L45x45x4H	1286	1	3.52
3S-342	L45x45x4H	1286	1	3.52
3S-343	L45x45x4H	2030	1	5.56
3S-344	L100x100x10H	210	1	3.15
3S-346	L100x100x10H	210	1	3.15
3S-347	L40x40x4H	1158	1	2.87
3S-348	L40x40x4H	1158	1	2.87
3S-349	L40x40x4H	1118	1	2.77
3S-350	L40x40x4H	1118	1	2.77
3S-351	L45x45x4H	1617	1	4.43
3S-352	L90x90x8H	210	1	2.23
3S-353	L90x90x8H	210	1	2.23
3S-354	L40x40x4H	1010	1	2.51

Bill of Materials  
for Tower Type 3S  
Crossarm C2

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-355	L40x40x4H	1010	1	2.51
3S-356	L40x40x4H	983	1	2.44
3S-357	L40x40x4H	983	1	2.44
3S-358	L45x45x4H	1090	1	2.99
3S-359	L100x100x10H	153	1	2.30
3S-360	L100x100x10H	153	1	2.30
3S-361	L50x50x4H	1781	1	5.45
3S-362	L45x45x4H	651	1	1.78
3S-363	L90x90x8H	96	1	1.02
3S-364	L90x90x8H	96	1	1.02
3S-365	L40x40x4H	913	1	2.26
3S-366	L40x40x4H	380	1	0.94
3S-367	L100x100x10H	128	1	1.92
3S-368	L100x100x10H	128	1	1.92
3S-369	L45x45x4H	1536	1	4.21
3S-370	L40x40x4H	1226	1	3.04
3S-371	L40x40x4H	930	1	2.31
3S-372	L40x40x4H	506	1	1.25
3S-373	L60x60x4H	2089	1	7.73
3S-374	L60x60x4H	2089	1	7.73
3S-375	L50x50x4H	1624	1	4.97
3S-376	L50x50x4H	1624	1	4.97
3S-377	L50x50x4H	1767	2	10.81
3S-378	L40x40x4H	876	1	2.17
3S-379	L40x40x4H	876	1	2.17
3S-380	L40x40x4H	453	1	1.12
3S-381	L40x40x4H	453	1	1.12
3S-382	L60x60x5H	209	1	0.96
3S-383	L60x60x5H	209	1	0.96
3S-384	L60x60x5H	269	1	1.23
3S-386	L60x60x5H	269	1	1.23
3S-388	L50x50x5H	219	1	0.83
3S-389	L50x50x5H	219	1	0.83
3S-390	197x6H	60	4	2.09
3S-391	246x6H	113	1	1.01
3S-392	246x6H	113	1	1.01
3S-393	206x6H	119	1	0.92
3S-394	206x6H	119	1	0.92
3S-395	191x6H	122	2	1.75
3S-396	149x6H	124	2	1.36
3S-397	256x6H	114	1	1.12
3S-398	256x6H	114	1	1.07
3S-399	173x6H	179	1	1.21
3S-400	206x6H	56	1	0.51
3S-401	206x6H	56	1	0.51
3S-402	124x6H	129	1	0.66
3S-403	180x6H	112	1	0.81
3S-404	180x6H	112	1	0.81
3S-405	180x6H	106	1	0.81
3S-407	180x6H	107	1	0.77
3S-408	180x6H	107	1	0.78
TW14/6	ø30x6	30	2	0.06

Bill of Materials  
for Tower Type 3S  
Crossarm C2

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
		Total		488.85
	M14x30		80	7.20
	M14x35		94	9.03
	M14x40		60	6.13
	M14x45		2	0.22
	M14x50		4	0.46
	M16x30		8	0.92
	M16x35		2	0.25
	M16x45		6	0.83
		Total		25.04
	General Total			513.89

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-601	L60x60x6H	7496	1	40.63
3S-602	L60x60x6H	7496	1	40.63
3S-603	L60x60x6H	4141	1	22.45
3S-604	L60x60x6H	4141	1	22.45
3S-605	L60x60x6H	4141	1	22.45
3S-606	L60x60x6H	4141	1	22.45
3S-607	L50x50x6H	1031	2	9.22
3S-608	L45x45x5H	1557	2	10.53
3S-609	L50x50x5H	1236	2	9.32
3S-610	L50x50x6H	867	2	7.75
3S-611	L40x40x4H	1585	2	7.86
3S-612	L40x40x4H	1548	2	7.68
3S-613	L40x40x4H	1595	2	7.91
3S-614	L40x40x4H	1574	2	7.81
3S-615	L45x45x4H	717	1	1.96
3S-616	L40x40x4H	1574	2	7.81
3S-617	L40x40x4H	1595	2	7.91
3S-618	L40x40x4H	1548	2	7.68
3S-619	L40x40x4H	1585	2	7.86
3S-620	L50x50x6H	867	2	7.75
3S-621	L50x50x5H	1236	2	9.32
3S-622	L45x45x5H	1557	2	10.53
3S-623	L50x50x6H	1031	2	9.22
3S-624	L50x50x4H	1164	2	7.12
3S-625	L40x40x4H	734	4	7.28
3S-626	L40x40x4H	750	4	7.44
3S-627	L45x45x4H	1164	2	6.38
3S-628	L40x40x4H	836	4	8.29
3S-629	L40x40x4H	1766	2	8.76
3S-630	L40x40x4H	1766	2	8.76
3S-631	L40x40x4H	830	2	4.12
3S-632	L45x45x4H	1164	1	3.19
3S-633	L40x40x4H	799	1	1.98
3S-634	L40x40x4H	799	1	1.98
3S-635	L45x45x4H	1178	2	6.46
3S-636	L40x40x4H	869	4	8.62
3S-637	L40x40x4H	892	4	8.85
3S-638	L45x45x4H	1164	2	6.38
3S-639	L40x40x4H	837	4	8.30
3S-640	L40x40x4H	1769	2	8.77
3S-641	L40x40x4H	1769	2	8.77
3S-642	L40x40x4H	861	4	8.54
3S-643	L45x45x4H	1082	2	5.93
3S-644	L50x50x4H	1540	2	9.42
3S-645	L45x45x4H	1428	2	7.82
3S-646	L45x45x4H	717	1	1.96
3S-647	L100x100x10H	200	1	3.00
3S-648	L100x100x10H	200	1	3.00
3S-649	L50x50x5H	255	1	0.96
3S-650	L50x50x5H	255	1	0.96
3S-651	L45x45x5H	172	1	0.58
3S-652	L40x40x4H	849	1	2.11
3S-653	L40x40x4H	849	1	2.11

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-654	344x8H	286	2	8.31
3S-655	344x8H	286	2	8.31
3S-656	247x8H	289	2	6.92
3S-657	247x8H	289	2	6.92
3S-658	307x8H	311	2	8.45
3S-659	307x8H	311	2	8.45
3S-660	263x8H	260	2	6.16
3S-661	263x8H	260	2	6.16
3S-662	266x6H	108	2	4.08
3S-663	110x6H	114	2	1.11
3S-664	116x6H	114	2	1.18
3S-665	222x6H	98	1	0.84
3S-666	222x6H	98	1	0.84
3S-667	180x6H	102	1	1.44
3S-668	345x6H	58	4	3.17
TW14/6	ø30x6	30	10	2.29
TW14/8	ø30x8	30	8	1.22
		Total		552.87
	M14x30		122	11.50
	M14x35		328	32.93
	M14x40		18	1.92
		Total		46.35
	General Total			599.22

Bill of Materials  
for Tower Type 3S  
K Frame

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-101	L60x60x6H	2588	2	28.06
3S-102	L60x60x6H	2588	2	28.06
3S-103	L60x60x6H	2781	2	30.15
3S-104	L60x60x6H	2781	2	30.15
3S-105	L70x70x6H	3032	2	38.69
3S-106	L70x70x6H	3032	2	38.69
3S-107	L90x90x6H	1723	2	28.60
3S-108	L90x90x6H	1723	2	28.60
3S-109	L70x70x6H	3021	2	38.55
3S-110	L70x70x6H	1326	2	16.92
3S-111	L70x70x6H	4487	2	57.25
3S-112	L40x40x4H	1067	4	10.59
3S-113	L40x40x4H	670	4	6.65
3S-114	L40x40x4H	1015	4	10.06
3S-115	L40x40x4H	348	4	3.45
3S-116	L40x40x4H	473	4	4.69
3S-117	L40x40x4H	971	4	9.63
3S-118	L40x40x4H	963	4	9.56
3S-119	L40x40x4H	1168	4	11.59
3S-120	L90x90x8H	2411	2	51.11
3S-121	L60x60x5H	2284	2	20.88
3S-122	L60x60x5H	2284	2	20.88
3S-123	L60x60x5H	2491	2	22.77
3S-124	L60x60x5H	2491	2	22.77
3S-125	L50x50x5H	2950	2	22.24
3S-126	L45x45x4H	2008	2	11.01
3S-127	L45x45x4H	2008	2	11.01
3S-128	L40x40x4H	2265	2	11.24
3S-129	L50x50x4H	1801	2	11.02
3S-130	L70x70x6H	3293	2	42.02
3S-131	L70x70x6H	3293	2	42.02
3S-132	L40x40x4H	946	4	9.38
3S-133	L40x40x4H	1257	4	12.47
3S-134	L40x40x4H	790	4	7.84
3S-135	L60x60x5H	2354	2	21.52
3S-136	L60x60x5H	1680	2	15.35
3S-137	L60x60x5H	1680	2	15.35
3S-138	L40x40x4H	719	4	7.13
3S-139	L60x60x5H	1660	2	15.17
3S-140	L60x60x5H	1660	2	15.17
3S-141	L40x40x4H	896	4	8.89
3S-142	L50x50x5H	3047	2	22.98
3S-143	L40x40x4H	1934	2	9.59
3S-144	L40x40x4H	1934	2	9.59
3S-145	L40x40x4H	2166	2	10.74
3S-146	L40x40x4H	2166	2	10.74
3S-147	L40x40x4H	2485	2	12.33
3S-148	L40x40x4H	2485	2	12.33
3S-149	L40x40x4H	2636	2	13.07
3S-150	L40x40x4H	2636	2	13.07
3S-151	L40x40x4H	2689	2	13.34
3S-152	L40x40x4H	2689	2	13.34
3S-153	L70x70x6H	463	2	5.91

Bill of Materials  
for Tower Type 3S  
K Frame

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-154	L45x45x4H	1748	2	9.58
3S-155	L45x45x4H	1748	2	9.58
3S-156	L40x40x4H	1191	2	5.91
3S-157	L40x40x4H	819	4	8.12
3S-158	L40x40x4H	597	4	5.92
3S-159	L45x45x4H	2101	2	11.52
3S-160	L45x45x4H	2101	2	11.52
3S-161	L40x40x4H	1064	2	5.28
3S-162	L40x40x4H	1064	2	5.28
3S-163	L40x40x4H	1212	2	6.01
3S-164	L60x60x6H	227	2	2.46
3S-165	L60x60x6H	227	2	2.46
3S-166	L60x60x6H	282	2	3.06
3S-167	L60x60x6H	282	2	3.06
3S-168	L80x80x6H	255	4	7.51
3S-169	L40x40x4H	2265	2	11.24
3S-170	338x8H	171	2	5.35
3S-171	338x8H	171	2	5.35
3S-173	439x8H	294	4	25.72
3S-174	230x6H	70	8	5.70
3S-175	226x6H	198	2	3.53
3S-176	158x6H	153	4	3.43
3S-177	269x8H	184	2	5.78
3S-178	269x8H	184	2	5.78
3S-179	243x6H	190	2	4.20
3S-180	212x6H	60	8	4.53
TW14/4	ø30x4	30	4	0.15
TW14/5	ø30x5	30	2	0.05
TW14/6	ø30x6	30	22	1.85
TW14/8	ø30x8	30	2	0.07
		<b>Total</b>		<b>1174.17</b>
	M14x30		100	9.00
	M14x35		226	21.72
	M14x40		124	12.67
	M14x45		2	0.22
	M14x50		4	0.46
	M16x40		16	2.09
	M16x45		40	5.56
		<b>Total</b>		<b>51.72</b>
	<b>General Total</b>			<b>1225.89</b>



Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-201	L100x100x6H	10297	2	190.70
3S-202	L100x100x6H	10297	2	190.70
3S-203	L60x60x4H	6006	2	44.44
3S-204	L60x60x4H	6050	2	44.77
3S-205	L60x60x4H	4164	2	30.81
3S-206	L60x60x4H	4164	2	30.81
3S-207	L60x60x4H	2059	2	15.24
3S-208	L60x60x4H	2059	2	15.24
3S-209	L60x60x4H	4645	2	34.38
3S-210	L60x60x4H	4645	2	34.38
3S-211	L60x60x4H	5132	2	37.97
3S-212	L60x60x4H	5132	2	37.97
3S-213	L60x60x4H	5496	2	40.67
3S-214	L60x60x4H	5496	2	40.67
3S-215	L60x60x4H	5888	2	43.57
3S-216	L60x60x4H	5888	2	43.57
3S-217	L60x60x4H	6269	2	46.39
3S-218	L60x60x4H	6269	2	46.39
3S-219	L60x60x4H	3074	2	22.75
3S-220	L60x60x4H	3074	2	22.75
3S-221	L60x60x4H	4235	2	31.34
3S-222	L60x60x4H	4235	2	31.34
3S-223	L60x60x4H	2096	2	15.51
3S-224	L60x60x4H	2096	2	15.51
3S-225	L60x60x4H	4713	2	34.88
3S-226	L60x60x4H	4713	2	34.88
3S-227	L60x60x4H	5196	2	38.45
3S-228	L60x60x4H	5196	2	38.45
3S-229	L60x60x4H	5550	2	41.07
3S-230	L60x60x4H	5550	2	41.07
3S-231	L60x60x4H	5939	2	43.94
3S-232	L60x60x4H	5939	2	43.94
3S-233	L60x60x4H	6315	2	46.73
3S-234	L60x60x4H	6315	2	46.73
3S-235	L60x60x4H	3097	2	22.92
3S-236	L60x60x4H	3097	2	22.92
3S-237	L45x45x4H	3289	2	18.02
3S-238	L45x45x4H	3289	2	18.02
3S-239	L45x45x4H	3214	2	17.62
3S-240	L45x45x4H	3214	2	17.62
3S-241	L40x40x4H	869	4	8.62
3S-242	L40x40x4H	828	4	8.21
3S-243	L45x45x4H	2205	2	12.08
3S-244	L45x45x4H	2176	2	11.92
3S-245	L60x60x4H	152	2	1.12
3S-246	L60x60x4H	150	2	1.11
3S-247	L90x90x6H	305	4	10.13
3S-248	L45x45x4H	874	2	4.79
3S-249	L45x45x4H	874	2	4.79
3S-250	L45x45x4H	995	2	5.45
3S-251	L45x45x4H	995	2	5.45
3S-252	L45x45x4H	358	2	1.96
3S-253	L45x45x4H	358	2	1.96

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-254	L40x40x4H	806	2	4.00
3S-255	L45x45x4H	1056	2	5.79
3S-256	L45x45x4H	1056	2	5.79
3S-257	L45x45x4H	1031	2	5.65
3S-258	L45x45x4H	1031	2	5.65
3S-259	L40x40x4H	757	4	7.51
3S-260	L40x40x4H	816	4	8.09
3S-261	L40x40x4H	645	4	6.40
3S-262	L40x40x4H	770	4	7.64
3S-263	L40x40x4H	806	4	7.99
3S-264	L40x40x4H	655	4	6.50
3S-265	256x8H	268	2	8.21
3S-266	254x8H	267	2	8.10
3S-267	115x6M	110	4	2.25
3S-268	285x6H	70	8	6.98
3S-269	130x2M	46	8	0.66
TW14/4	ø30x4	30	8	0.15
TW14/6	ø30x6	30	80	4.49
		Total		1814.59
	M14x30		288	25.92
	M14x35		188	18.07
	M14x40		12	1.23
	M16x35		8	0.98
	M16x40		12	1.57
	M16x45		48	6.67
		Total		54.43
	General Total			1869.02

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-501	L100x100x8H	7996	2	195.11
3S-502	L100x100x8H	7996	2	195.11
3S-503	L80x80x6H	4953	2	72.91
3S-504	L80x80x6H	4070	2	59.91
3S-505	L80x80x6H	4953	2	72.91
3S-506	L80x80x6H	4070	2	59.91
3S-507	L80x80x6H	4601	2	67.73
3S-508	L80x80x6H	4425	2	65.14
3S-509	L80x80x6H	4601	2	67.73
3S-510	L80x80x6H	4425	2	65.14
3S-511	L40x40x4H	2625	2	13.02
3S-512	L40x40x4H	2625	2	13.02
3S-513	L40x40x4H	1937	2	9.61
3S-514	L50x50x4H	2173	4	26.60
3S-515	L45x45x4H	2108	2	11.55
3S-516	L45x45x4H	2009	4	22.02
3S-517	L40x40x4H	1720	4	17.06
3S-518	L40x40x4H	1336	4	13.25
3S-519	L40x40x4H	1125	4	11.16
3S-520	L40x40x4H	919	4	9.12
3S-521	L40x40x4H	716	4	7.10
3S-522	L40x40x4H	763	4	7.57
3S-523	L40x40x4H	401	4	3.98
3S-524	L40x40x4H	2646	2	13.12
3S-525	L40x40x4H	2646	2	13.12
3S-526	L40x40x4H	1664	4	16.51
3S-527	L45x45x4H	1973	4	21.62
3S-528	L60x60x4H	2430	4	35.97
3S-529	L45x45x4H	1983	4	21.74
3S-530	L45x45x4H	2064	4	22.62
3S-531	L40x40x4H	1389	4	13.78
3S-532	L40x40x4H	1555	4	15.42
3S-533	L40x40x4H	986	4	9.78
3S-534	L40x40x4H	889	4	8.82
3S-535	L40x40x4H	842	4	8.35
3S-536	L40x40x4H	301	4	2.99
3S-537	L50x50x4H	4131	2	25.28
3S-538	L50x50x4H	4133	2	25.30
3S-539	L45x45x4H	3421	2	18.75
3S-540	L45x45x4H	3424	2	18.76
3S-541	L40x40x4H	2718	2	13.48
3S-542	L40x40x4H	2722	2	13.50
3S-543	L40x40x4H	1902	2	9.43
3S-544	L40x40x4H	1904	2	9.45
3S-545	L40x40x4H	648	4	6.42
3S-546	L50x50x4H	4131	2	25.28
3S-547	L50x50x4H	4133	2	25.30
3S-548	L45x45x4H	3421	2	18.75
3S-549	L45x45x4H	3424	2	18.76
3S-550	L40x40x4H	2718	2	13.48
3S-551	L40x40x4H	2722	2	13.50
3S-552	L40x40x4H	1902	2	9.43
3S-553	L40x40x4H	1904	2	9.45

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-554	L90x90x6H	303	4	10.06
3S-555	70x6H	285	8	6.98
3S-556	L60x60x6H	221	8	9.58
3S-557	50x6H	203	16	6.93
3S-558	120x6M	133	2	1.20
3S-559	120x6M	133	2	1.20
3S-560	120x6M	133	2	1.19
3S-561	120x6M	133	2	1.19
3S-562	120x6M	113	24	13.70
3S-563	120x6M	113	8	4.84
3S-564	L40x40x4H	1937	2	9.61
3S-565	L45x45x4H	2108	2	11.55
3S-566	1190x3M	40	2	2.24
3S-567	817x3M	40	2	1.54
3S-568	745x3M	40	2	1.42
3S-569	409x3M	40	2	0.78
TW14/6	ø30x6	30	16	0.45
TW14/8	ø30x8	30	6	0.45
		Total		1649.71
	M14x30		74	6.66
	M14x35		224	21.53
	M14x40		8	0.82
	M16x40		24	3.14
	M16x45		136	18.89
		Total		51.04
	General Total			1700.75



Stub Angle for Foundations Types "3SF1" And "3SF2"  
Without Chimney Extension

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-900A	L100x100x8H	2592	4	126.49
3S-901	L80x40x6H	90	8	3.95
		Total		130.44
	M16x40		16	2.09
		Total		2.09
	General Total			132.53

Stub Angle for Foundations Types "3SF1" And "3SF2"  
With Chimney Extension

Mark	Description	Length [mm]	Qty, [-]	Black Steel Weight [kg]
3S-900B	L100x100x8H	3103	4	151.43
3S-901	L80x40x6H	90	8	3.95
		Total		155.38
	M16x40		16	2.09
		Total		2.09
	General Total			157.47