

ACC

AC 40

10000/148/1798

A.C. MAT 40 - AF
NOV 1944 - FEB

A.C. MAT 40 - A.F.L. B. STEEL CATALOGUES
NOV 1944 - FEB 1948

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Dr. J. J. Moore, Jr. & Co. Chicago.

10/10/2014 12:24 PM

AG Tpn Sub-Commission,
Ministry of Communications Building, Rome

35 (1991) 100-101

1. 1990

$$D(\mathbf{y}) = \frac{1}{2} \mathbf{y}^T \mathbf{D} \mathbf{y} + \mathbf{c}^T \mathbf{y} + d, \quad (1)$$

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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CH, 100% (100%)

ST. JOHN'S COLLEGE, N.Y.

100

U.S. Public Works Division, Inc.

1. Enclosed herewith is No. 1 to the Catalogue of Mild Steel Sections, Sheets and Plates rolled in Italy, forwarded to you under cover of this section's letter, 120/153/23 dated 21 May 44.

G. Braken
Major

C. S. Hyatt, Major, 124th,
for Chief of Section,

References

501 Δ

AMENDMENT No.1 TO D.W., A.S.I. Catalogue of Standard
Mild Steel Sections Plates & Sheet rolled in Liberated
Italy

12 Feb 1945.

1. PLATE

Delete note (a) on dimension and add new notes a and c.

- (a) The widths and length shown are the maximum which can be rolled to the thickness given. Plates will normally be rolled to the sizes shown and cut to the following length for delivery:

Plates P/1 - P/3 $\frac{1}{2}$ length

Plates P/4 - P/12 $\frac{1}{4}$ length.

The only other sizes which will be supplied are P/1 - P/3 full length. P/4 - P/12 $\frac{1}{2}$ or full length. If these special sizes are required they must be clearly stated on the order.

- (c) All orders should be in tons based on 17.25 tons per square metre per millimeter thick.

2. PLATE

Amend the lengths of the following Plates to read:-

Ref Mark.	Length m/ft	Feet.
P.4	9,000	29,524
P.4 - P/2	10,000	32,807

5613

ALLIED FORCE LOCAL RESOURCES SECTION
A.F.L.R.S.

Postal Address:

A.F.L.R.S.
Rome Area Allied Command,
C. M. F.

ERS/353/38.

SUBJECT : Catalogues of Mild Steel Sections,
Sheets & Plates to be produced in
ITALY - Additional Information.

Telephone: ROME 66022

5 January 1945.

TO : C-in-C Med.
G.F., AFHQ
NCE, AFHQ
TC (Br), AFHQ (2)
Signal Section (Br), AFHQ
Signal (Br), AFHQ
Ord (Br), AFHQ
DOS, AFHQ
DME, AFHQ
DAR, ITALY
CE, STOUA
E3 AF Commerce Sub-Commission (2)
E3 AF Transportation Sub-Commission
HQ 2nd Group AFHQ
CE, PSC.

Herewith copies of additions to the "Catalogue of Mild Steel
Sections, Sheets & Plates to be produced in ITALY", forwarded to you under
cover of this Section letter ERS/353/25 dated 21 December 1944.

561

Thomas R. Gibson

THOMAS R. GIBSON, Col., ALS,
Chief of Section (Br),
A.F.L.R.S.

W. L. Curry

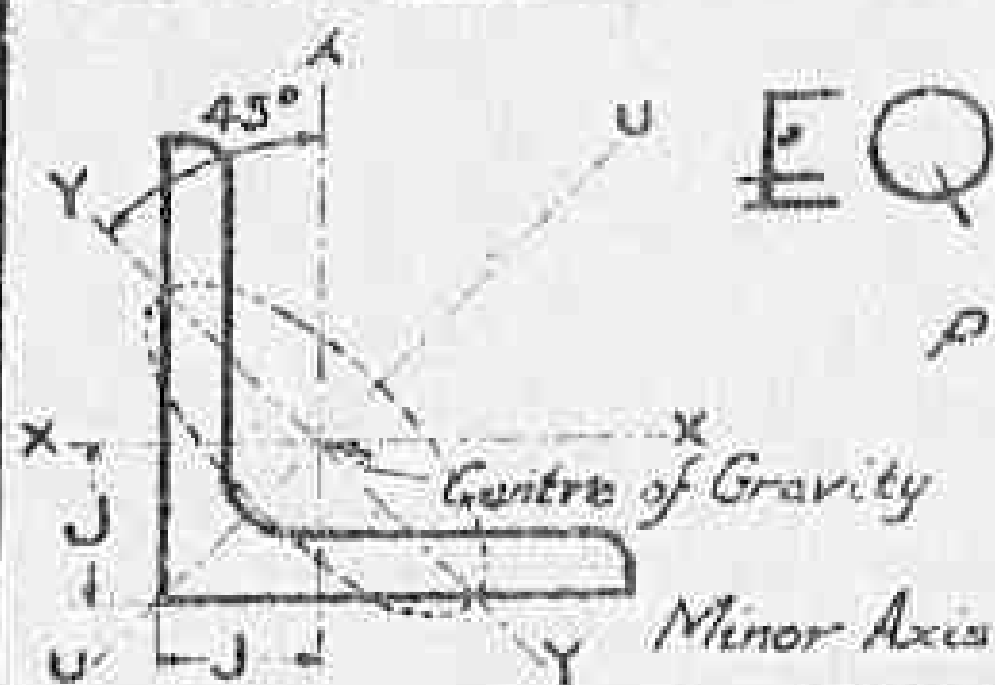
W. L. CURRY, Major, Chief,
Chief of Section (Br),
A.F.L.R.S.

JP/dgt

1978

Declassified E.O. 12356 Section 3.3/NND No.

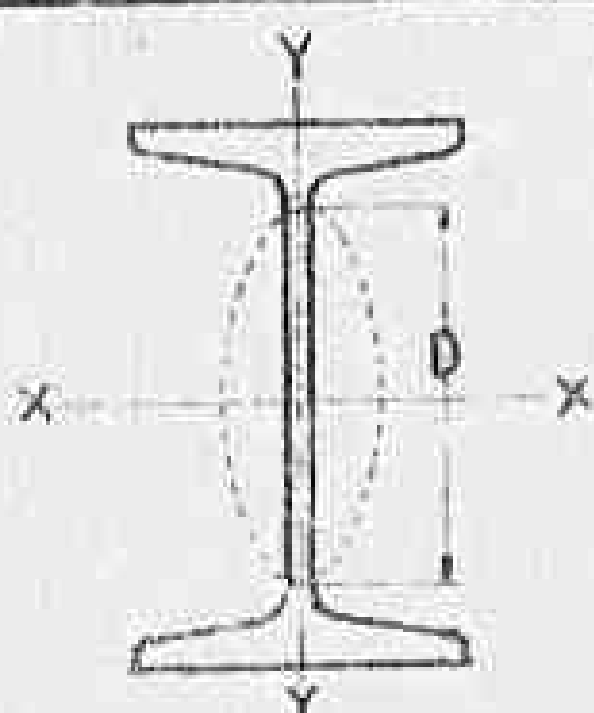
785021



EQUAL ANGLES

PROPERTIES.

Ref. Mark D.W.	Size & Thickness A x B x t mm ins.	J cm. ins.	Moments of Inertia			Radii of Gyration			Section Moduli	
			About X-X cm. ⁴ ins. ⁴	About U-U cm. ⁴ ins. ⁴	About Y-Y cm. ⁴ ins. ⁴	About X-X cm. ins.	About U-U cm. ins.	About Y-Y cm. ins.	About X-X cm. ³ ins. ³	About Y-Y cm. ³ ins. ³
A/1	25 x 25 x 4 0.984 x 0.984 x 0.157	0.76 0.229	1.01 0.024	1.81 0.039	0.40 0.01	0.74 0.291	0.93 0.366	0.47 0.185	0.30 0.036	0.37 0.028
A/2	35 x 35 x 5 1.378 x 1.378 x 0.197	1.001 0.394	1.94 0.0466	3.33 0.0719	0.25 0.0228	0.81 0.3189	1.16 0.4401	0.629 0.2472	0.78 0.0956	0.48 0.0232
A/3	40 x 40 x 6 1.575 x 1.575 x 0.236	1.20 0.472	6.33 0.162	9.98 0.239	2.67 0.064	1.19 0.468	1.49 0.587	0.77 0.303	2.26 0.138	1.57 0.096
A/4	45 x 45 x 7 1.772 x 1.772 x 0.276	1.36 0.535	10.40 0.250	16.40 0.393	4.39 0.105	1.33 0.524	1.67 0.657	0.87 0.342	3.31 0.202	2.29 0.140
A/5	50 x 50 x 7 1.969 x 1.969 x 0.276	1.49 0.587	14.60 0.350	23.10 0.554	6.02 0.144	1.49 0.587	1.88 0.740	0.96 0.378	4.15 0.253	2.85 0.174
A/6	50 x 50 x 9 1.969 x 1.969 x 0.354	1.56 0.614	17.9 0.430	28.10 0.674	7.67 0.184	1.47 0.579	1.85 0.728	0.97 0.382	5.20 0.317	3.47 0.212
A/7	60 x 60 x 8 2.362 x 2.362 x 0.315	1.77 0.697	22.10 0.638	46.10 1.106	12.10 0.250	1.80 0.703	2.26 0.890	1.16 0.457	6.88 0.420	4.84 0.295
A/8	70 x 70 x 9 2.756 x 2.756 x 0.354	2.05 0.811	52.60 1.262	83.10 1.994	22.00 0.528	2.10 0.827	2.64 1.039	1.36 0.535	10.60 0.647	7.69 0.483
A/9	80 x 80 x 10 3.150 x 3.150 x 0.394	2.34 0.921	87.50 2.10	129.0 3.336	35.9 0.862	2.41 0.949	3.03 1.193	1.54 0.606	15.50 0.946	10.90 0.665
A/10	90 x 90 x 11 3.543 x 3.543 x 0.433	2.62 1.0315	138.0 3.312	218.0 5.232	57.10 1.370	2.72 1.071	3.41 1.342	1.75 0.689	21.61 1.319	15.40 0.940
A/11	100 x 100 x 12 3.937 x 3.937 x 0.472	2.90 1.142	207.00 4.968	372.0 8.928	98.30 2.359	3.02 1.189	3.80 1.496	1.95 0.768	29.20 1.782	21.00 1.282
A/12	110 x 110 x 12 4.331 x 4.331 x 0.472	3.07 1.209	280.00 6.72	444.00 10.66	116.00 2.78	3.34 1.315	4.21 1.657	2.15 0.846	35.70 2.179	26.10 1.593
A/13	120 x 120 x 15 4.724 x 4.724 x 0.591	3.51 1.375	440.00 10.704	705.00 16.32	186.00 4.460	3.63 1.429	4.56 1.795	2.32 0.921	52.50 3.204	37.5 2.390



BEAMS

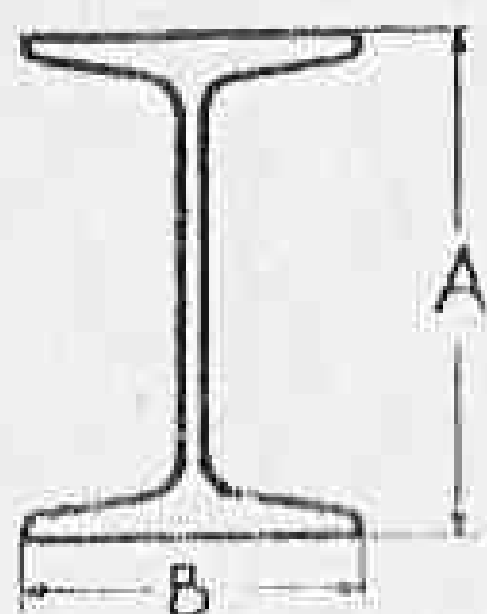
PROPERTIES

Reference Mark D.W.	Size A x B m.m. ins.	D c.m. ins.	Moments of Inertia		Radii of Gyration		Section Moduli	
			About X-X cm ⁴ ins ⁴	About Y-Y cm ⁴ ins ⁴	About X-X c.m. ins.	About Y-Y c.m. ins.	About X-X cm ³ ins ³	About Y-Y cm ³ ins ³
B/1	80 x 42 3 150 x 1 654	6.40 2.52	77.8 1 6672	6.29 0.151	3.20 1.2598	0.91 0.3582	19.5 1.190	3.00 0.183
B/2	100 x 50 3 937 x 1 969	8.02 3.16	171.0 4 104	12.20 0.293	4.01 1.5787	1.07 0.4213	34.20 2.087	4.38 0.270
B/3	120 x 58 4 724 x 2 283	9.62 3.79	320.0 7 872	21.50 0.516	4.81 1.8937	1.25 0.4842	54.7 5.338	7.41 0.452
B/4	140 x 66 5 512 x 2 595	11.22 4.42	537.0 12 858	35.2 0.845	5.61 2.2086	1.40 0.5512	81.2 4.998	10.70 0.653
B/5	160 x 74 6 299 x 2 913	12.80 5.04	935.0 20 440	56.70 1.313	6.40 2.5197	1.55 0.6102	117.0 7.140	14.80 0.903
B/6	180 x 82 7 087 x 3 229	14.40 5.67	1450.0 34 800	81.30 1.951	7.20 2.8346	1.71 0.6732	161.0 9.825	19.80 1.208
B/7	200 x 90 7 874 x 3 543	16.00 6.30	2 445.0 51 504	117.0 2.808	8.00 3.1496	1.87 0.7362	214.0 13.029	26.00 1.587

5640

1980

Declassified E.O. 12356 Section 3.3/NND No. 785021



BEAMS

SAFE UNIFORMLY DISTRIBUTED
LOADS IN KILOGRAMS & TONS.

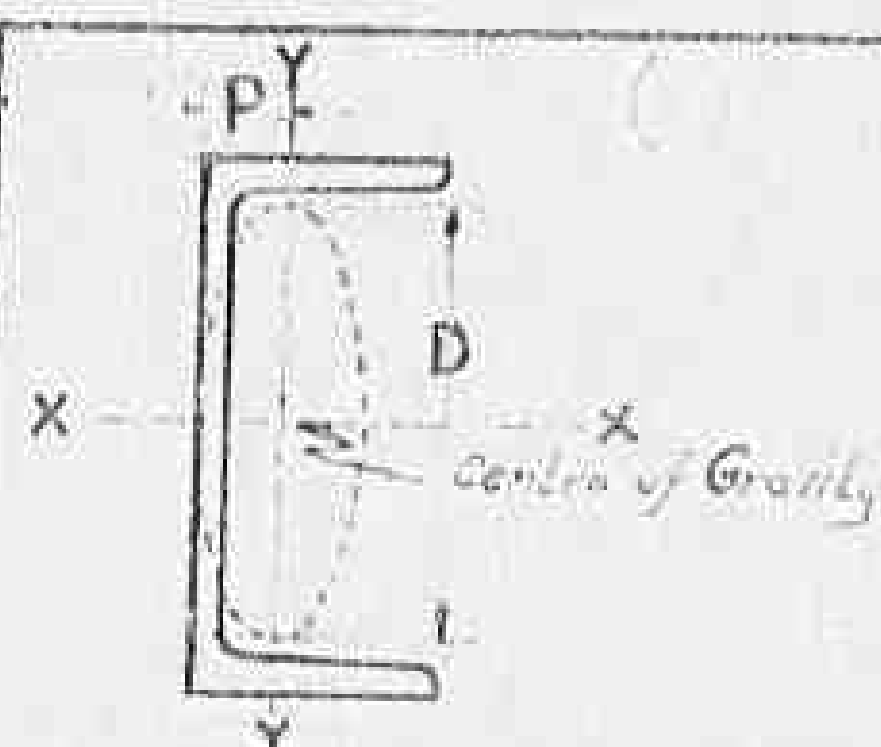
Ref Mark D.W	Size A x B mm. ins	Spans in Metres and Feet										
		1.00 3.281	1.50 4.921	2.00 6.562	2.50 8.202	3.00 9.842	3.50 11.482	4.00 13.123	4.50 14.763	5.00 16.404	5.50 18.044	6.00 19.685
B/1	80 x 42 3.150 x 1.654	1930 1.3	1320 1.3	914 0.5	711 0.7	609 0.6	508 0.5					
B/2	100 x 50 3.937 x 1.969	3454 2.4	2336 2.3	1727 1.7	1320 1.3	1117 1.1	1016 1.0	812 0.8				
B/3	120 x 58 4.724 x 2.283	5588 5.5	3759 3.7	2793 2.7	2235 2.2	1828 1.8	1524 1.5	1320 1.3	1218 1.2			
B/4	140 x 66 5.512 x 2.599	8229 8.1	5437 5.4	4064 4.0	3251 3.2	2743 2.7	2336 2.3	2032 2.0	1828 1.8			
B/5	160 x 74 6.299 x 2.913	11785 11.6	7823 7.7	5892 5.8	4673 4.6	3963 3.9	3352 3.3	2946 2.9	2642 2.6	2336 2.3		
B/6	180 x 82 7.087 x 3.229	16256 16.0	10770 10.6	8128 8.0	6500 6.4	5386 5.3	4572 4.5	4064 4.0	3556 3.5	3251 3.2	2947 2.9	
B/7	200 x 90 7.874 x 3.543	21539 21.2	14325 14.1	10770 10.6	8636 8.5	7112 7.0	6096 6.0	5386 5.3	4774 4.7	4267 4.2	3862 3.8	3556 3.5

1 Kg = 2.2046 lbs. 1 Ton = 1016 Kgs 1 Metre = 3.281 feet

The loads given in the above table are exclusive of the weights of the beams, and are based on a maximum Fibre Stress of 8 Tons per square inch.

Moderate deflection of $\frac{1}{20}$ x span is indicated by the Zig-Zag line.

5609



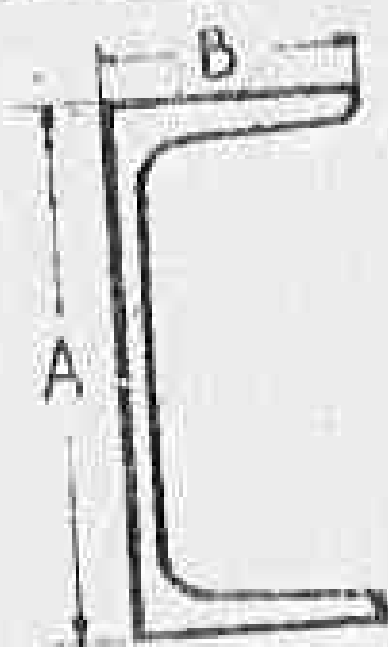
CHANNELS

PROPERTIES

Reference Mark D.W.	Size A x B mm ins.	P cm ins.	Moments of Inertia		Radii of Gyration		Section Moduli	
			About X-X cm. ⁴ ins. ⁴	About Y-Y cm. ⁴ ins. ⁴	About X-X cm. ins.	About Y-Y cm. ins.	About X-X cm. ³ ins. ³	About Y-Y cm. ³ ins. ³
C/1	40 x 35 1.575 x 1.378	1.23 0.5315	14.10 0.3384	6.68 0.16032	1.50 0.5905	1.04 0.4094	1.05 0.4302	3.08 0.1879
C/2	50 x 38 1.969 x 1.496	1.37 0.5393	26.40 0.6736	9.12 0.2182	1.92 0.7596	1.17 0.4749	10.40 0.6463	3.75 0.2288
C/3	65 x 42 2.559 x 1.654	1.42 0.559	57.50 1.3800	14.10 0.3384	2.52 0.9921	1.25 0.4921	17.70 1.0802	5.07 0.3094
C/4	80 x 45 3.150 x 1.772	1.45 0.5708	106.00 2.5440	19.40 0.4654	3.10 1.2205	1.53 0.5236	26.50 1.6172	6.35 0.3891
C/5	100 x 50 3.937 x 1.969	1.55 0.6102	206.00 4.944	29.30 0.6032	3.91 1.5394	1.77 0.6787	41.20 2.5153	8.49 0.5181
C/6	120 x 55 4.724 x 2.165	1.60 0.6299	364.00 8.736	43.20 1.0360	4.62 1.8189	1.59 0.6259	60.70 3.7043	11.10 0.6774

1982

Declassified E.O. 12356 Section 3.3/NND No. 725021



CHANNELS

SAFE UNIFORMLY DISTRIBUTED
LOADS IN KILOGRAMS & TONS

Ref. Mark D.W.	Size A x B m.m. Ins.	Spans in Metres and Feet										
		1.00 3.281	1.50 4.921	2.00 6.562	2.50 8.202	3.00 9.842	3.50 11.482	4.00 13.123	4.50 14.763	5.00 16.404	5.50 18.044	6.00 19.685
C/1	40 x 35 1575 x 1318	711 0.7	977 0.97	355 0.35	284 0.28	231 0.23	203 0.2					
C/2	50 x 38 1969 x 1496	1016 1.0	711 0.7	528 0.52	426 0.42	355 0.35	304 0.3	264 0.26				
C/3	65 x 42 2553 x 1654	1778 1.75	1188 1.17	883 0.87	711 0.7	589 0.58	518 0.51	447 0.44				
C/4	80 x 45 3150 x 1772	2541 2.5	1778 1.75	1320 1.3	1016 1.0	883 0.87	711 0.76	670 0.66	599 0.59			
C/5	100 x 50 3957 x 1969	4165 4.1	2742 2.7	2032 2.0	1666 1.64	1381 1.36	1168 1.15	1016 1.0	915 0.9	833 0.8	752 0.7	
C/6	120 x 55 4724 x 2165	6096 6.0	4064 4.0	3048 3.0	2438 2.4	2032 2.0	1727 1.7	1524 1.5	1320 1.3	1219 1.2	1117 1.1	1014 1.0

$1'' = 25.4 \text{ mm} = 2.54 \text{ cm}$
 $1 \text{ inch}^3 = 16.386 \text{ cms}^3$
 $1 \text{ metre} = 3.281 \text{ feet}$

$1 \text{ sq. inch} = 6.45 \text{ sq. cms.}$
 $1 \text{ inch}^4 = 41.623 \text{ cms}^4$

$1 \text{ Kg} = 2.2046 \text{ lbs.}$
 $1 \text{ Ton} = 1016 \text{ Kgs.}$

The loads given in the above table are exclusive of the weights
 of the channels and are based on a maximum Fibre Stress
 of 8 Tons per square inch.
 Moderate deflection of $\frac{1}{20}$ x span is indicated by the Zig-Zag line.

5607

2405/689/17/13-42

1983

CONTAINING TWO ROLLER SECTIONS, SHE IS A PLATE
TO BE ROLLED IN THE MILL WITH CONTROL
OF SECTION OF WORK, P.D. A.A.I.

To: 2044

1. This Catalogue includes what is considered an adequate range of standard sections capable of being rolled within the limits of mill available. The variety of the range has been kept below normal plate thickness in order to increase production and save the manufacture of too many rolls.

2. Certain sections which are not at present available but will be available shortly have been included and are marked with an asterisk. It is anticipated that it will be possible to roll latter sections at a later date. As these become available amendments to this catalogue will be published.

3. All sections listed will be produced from steel having the following physical and chemical properties. Ultimate tensile strength 25 to 33 cent per inch. Elongation 20% over a length of 8 ins.

4. All section and plate will be supplied to a rolling machine of plus or minus 2% and to lengths within the ranges listed. Sections and plate will only be cut to special sizes at the works in exceptional circumstances, if this is necessary outside of to dimensions must be clearly given on the demand with reasons.

5. Special sections can be rolled but this will usually involve the cutting of special rolls, considerable delay and the allowing down of general production and will only be done in exceptional cases.

6. All works operate to a rolling programme laid down by this Directorate where all orders should be submitted. The works have been instructed not to deviate from the details of this catalogue except on instruction from this office.

Handwritten signature

A.H. CLEGGING,
Lt. Col., R.E.
for Director,
Director of Works.

Att/Gen.

1/19

divided section. With the exception of 20 to 33 tons per inch, elongation 20% over a length of 8 ins.

4. All section and plate will be supplied to a rolling mill in of plate or plates 24 and 36 lengths within the range listed. Sections and plate will only be cut to special sizes if the mill is in exceptional circumstances, if this is necessary details of re-requirements must be clearly given to the demand with reasons.

5. Special sections can be rolled but this will usually involve the cutting of standard mills, considerable delay and the slowing down of general production and will only be done in exceptional cases.

6. All work orders to a rolling programme laid down by this Directorate where all the work should be submitted. The work have been instructed not to involve from the details of this catalogue except on instruction from this office.

A.H. GIBBING,
Lt. Col., R.E.
For Brigadier,
Director of Works.

AM/505.

100.

5006

1985

Declassified E.O. 12356 Section 3.3/NND No.

785021

S. E. A. H. S.

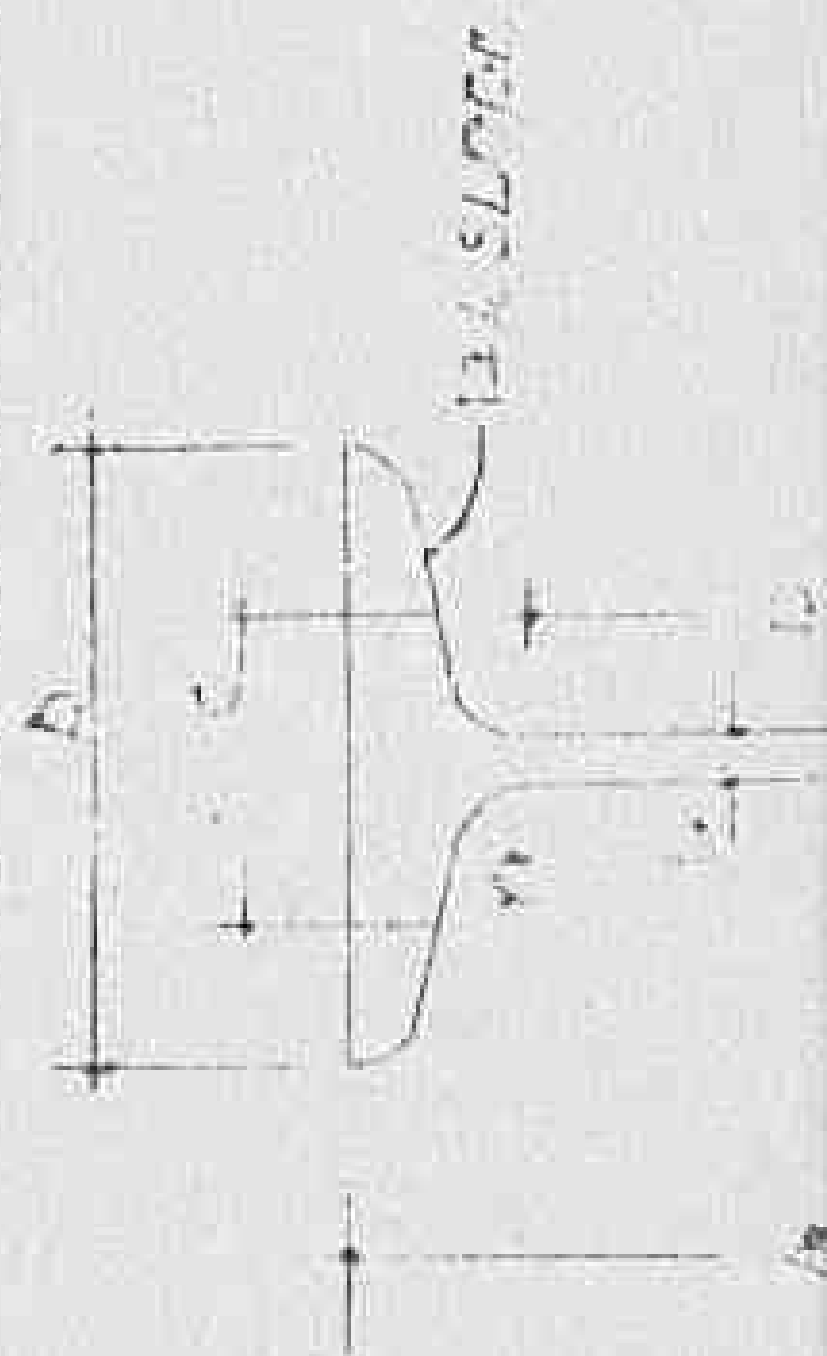
Standard Lengths 6 - 8 Meters

DIMENSIONS

Ref. Proj. E.V.	Size And (mm) (in)	(Kgs/ft) Wt (lbs/ft)	Standard Thickness		Radii		Depth Between Toe Pillots		Hole Centres Diam	Hole Diam
			Web t1	Flange t2	Root r1	Toe r2	t1	t2		
1/1	80 x 12 3.156 x 1.655	5.95 4.00	3.9 .157	3.9 .233	3.9 .153	2.3 .090	60	2.362	22 .663	P
1/2	100 x 50 3.973 x 1.970	8.32 5.60	4.5 .177	6.8 .263	4.5 .177	2.7 .109	75	2.955	26 1.025	P
1/3	120 x 58 4.724 x 2.285	11.15 7.50	5.1 .251	7.7 .303	5.1 .201	3.1 .122	90	3.540	30 1.18	P
1/4	140 x 66 5.512 x 2.600	14.37 9.65	5.7 .225	8.6 .339	5.7 .225	3.4 .134	100	3.937	34 1.340	11 .432
1/5	160 x 74 6.299 x 2.910	17.90 12.00	6.3 .248	9.5 .374	6.3 .248	3.8 .150	120	4.724	38 1.498	14 .55
1/6	180 x 82 7.027 x 3.230	21.90 14.70	6.9 .271	10.4 .409	6.9 .271	4.1 .161	140	5.512	44 1.732	14 .55
1/7	200 x 90 7.874 x 3.540	26.30 17.65	7.5 .295	11.5 .443	7.5 .295	4.5 .177	160	6.299	45 1.641	17 .670

+ Not Yet Available

P No Standard Diameter is given

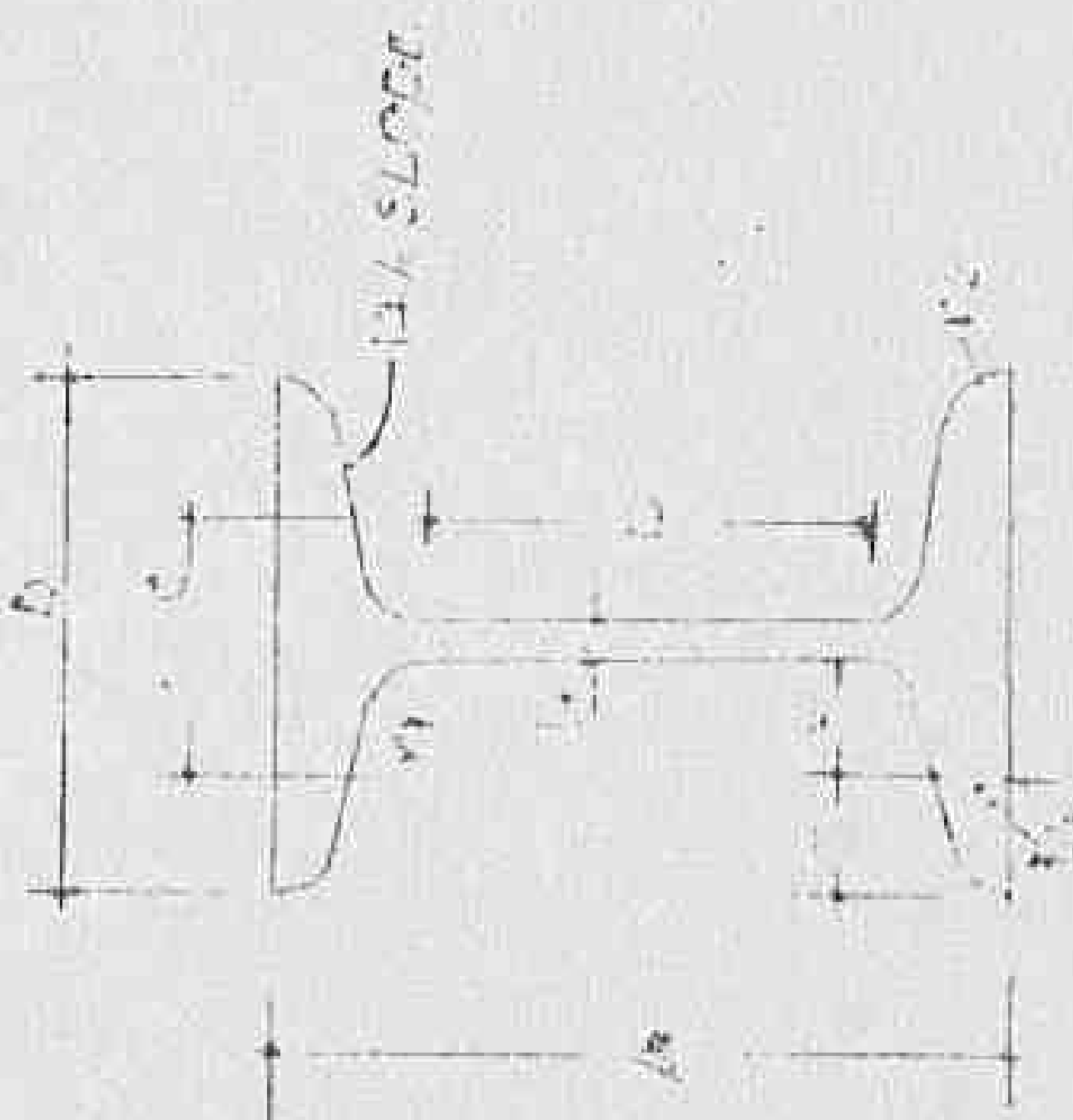


1980

+	4.724 x 2.203	7.50	.201	.303	.209	.122	3.540	1.118	
E/4	116 x 66	14.37	5.7	8.6	5.7	3.4	189	34	11
+	5.512 x 2.600	9.63	.225	.339	.225	.134	3.937	1.340	.432
E/5	160 x 74	17.90	6.3	9.5	6.3	5.8	120	38	14
+	6.299 x 2.910	12.00	.245	.374	.245	.150	4.724	1.498	.53
E/6	180 x 82	21.30	6.9	10.4	6.9	4.1	140	44	14
+	7.087 x 3.250	14.70	.271	.409	.271	.164	5.512	1.732	.55
E/7	200 x 90	26.30	7.5	11.3	7.5	4.5	160	45	17
+	7.374 x 3.540	17.65	.295	.443	.295	.177	6.299	1.841	.670

+ Not Yet Available

2 No Standard Diameter is given



5605

1987

Declassified E.O. 12356 Section 3.3/NND No. 785021

EQUAL ANGLES

DIMENSIONS

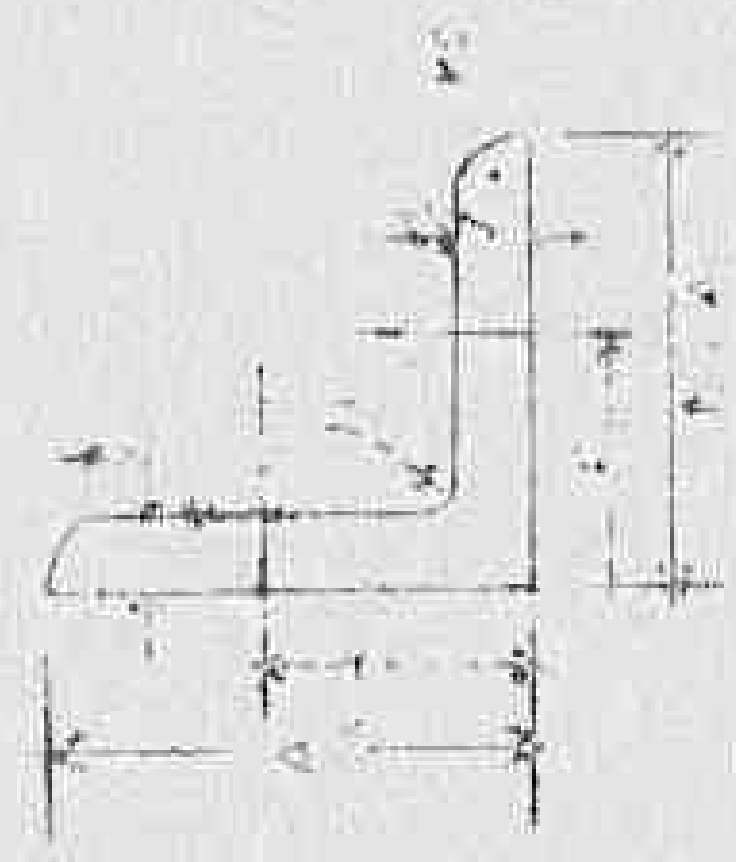
Standard Lengths - 6 - 10
Inches

Ref Mark DW	Size & Thickness A x B x t inches	Area (in ²)	Wt (lbs/ft)	Radii		Back Mark for Holes C	Diam of Hole
				Rect x1	Too x2		
A/1	25 x 25 x 1/4 .985 x .985 x .150	105 .287	1.45 .97	3.5 .138	2	P	P
A/2	35 x 35 x 5/16 1.380 x 1.380 x .197	267 .414	2.10 1.41	5 .197	2.5 .093	20 .787	11 .432
A/3	40 x 40 x 6/16 1.577 x 1.577 x .237	443 .695	3.52 2.36	6 .237	3 .113	22 .866	11 .432
A/4	45 x 45 x 7/16 1.770 x 1.770 x .276	586 .908	4.60 3.09	7 .276	3.5 .138	25 .985	11 .432
A/5	50 x 50 x 7/8 1.970 x 1.970 x .276	556 1.015	5.15 3.45	7 .276	3.5 .138	30 1.181	14 .55
A/6	50 x 50 x 9/16 1.970 x 1.970 x .354	824 1.28	6.47 4.35	7 .276	3.5 .138	30 1.181	14 .55
A/7	60 x 60 x 8/16 2.362 x 2.362 x .316	905 1.40	7.09 4.75	8 .316	4 .158	35 1.380	17 .67
A/8	70 x 70 x 9/16 2.760 x 2.760 x .354	1190 1.85	9.34 6.27	9 .354	4.5 .177	40 1.577	20 .787
A/9	80 x 80 x 10/16 3.156 x 3.156 x .394	1510 2.34	11.85 7.97	10 .394	5 .197	45 1.770	20-25 .787, .907
A/10	90 x 90 x 11/16 3.540 x 3.540 x .432	1670 2.90	14.68 9.35	11 .432	5.5 .216	50 1.970	23-26 .907, 1.025
A/11	100 x 100 x 12/16 3.927 x 3.927 x .472	2270 3.52	17.5 11.95	12 .472	6 .237	55 2.165	23-26 .907, 1.025
A/12	110 x 110 x 12/16 4.325 x 4.325 x .472	2510 3.90	19.7 13.25	12 .472	6 .237	55 2.165	23-26 .907, 1.025
A/13	120 x 120 x 15/16 4.724 x 4.724 x .59	3590 5.25	26.5 17.9	13 .512	6.5 .256	50 1.970	25-26 at 30 25 Din 25-26

1988

1952

A/2	985 ± .985 ± .158 35 × 35 ± 5 1,580 ± 1,580 ± .197	267 .414	2.10 1.41	3 6	197 237	20 22	.767 .866	11 11	.432 .432
A/3	1,577 ± 1,577 ± .237 45 × 45 ± 7	1148 586	3.82 2.36	6 7	237 276	25 30	.866 .985	11 14	.432 .432
A/4	1,770 ± 1,770 ± .276 50 × 50 ± 7	908 656	4.60 3.09	7 7	276 276	30 30	.985 1.184	14 14	.432 .432
A/5	1,970 ± 1,970 ± .276 50 × 50 ± 9	1,015 824	5.45 4.35	7 8	276 316	30 35	1.184 1.380	14 17	.432 .432
A/6	1,970 ± 1,970 ± .354 60 × 60 ± 8	903 1,100	7.09 4.75	8 9	316 354	35 40	1.380 1.577	17 20	.432 .432
A/8	2,760 ± 2,760 ± .394 70 × 70 ± 9	1190 1,850	9.34 6.27	9 10	354 394	40 45	1.577 1.770	20 23	.432 .432
A/9	3,156 ± 3,156 ± .394 90 × 90 ± 11	2,340 1,670	7.97 4.68	10 11	394 432	50 55	1.770 1.970	23 25	.432 .432
A/10	3,510 ± 3,510 ± .432 100 × 100 ± 12	2,900 3,520	9.85 17.6	11 12	432 472	55 60	1.970 2.165	25 28	.432 .432
A/11	3,937 ± 3,937 ± .472 110 × 110 ± 12	3,520 2,510	11.95 19.7	12 12	472 472	60 65	2.165 2.360	28 30	.432 .432
A/12	4,325 ± 4,325 ± .472 120 × 120 ± 15	3,990 5,250	26.6 17.9	13 13	512 512	70 75	2.360 2.560	30 35	.432 .432
A/13	4,724 ± 4,724 ± .59								



400

1989

Declassified E.O. 12356 Section 3.3/NND No. 785021CHANNELSPERMISSION

Standard Lengths 6 - 10 Metres

Ref Mark DW	Size (mm A x B (Inches))	Wt (Kg/metres lbs/Ft)	Standard Thickness			Depth Back Footmark for Fillet Holes		Hole Diam
			Web t1	Flange t2	Root r1	Toe r2	D	
0/1	40 x 35 1,577 x 1,380	4.97 5.26	5 .197	7 .276	7 .276	3.5 .138	20 .787	11 .432
0/2	50 x 35 1,970 x 1,380	5.33 5.75	5 .197	7 .276	7 .276	3.5 .138	20 .787	11 .432
0/3	65 x 42 2,562 x 1,655	7.09 4.75	5.5 .217	7.5 .296	7.5 .296	4 .158	25 .985	11 .432
0/4	80 x 45 3,156 x 1,770	8.64 5.80	6 .237	8 .316	8 .316	4 .158	25 .985	11 .432
0/5	100 x 50 3,937 x 1,970	10.60 7.12	6 .237	8.5 .335	8.5 .335	4.5 .177	30 1.181	14 .55
0/6 +	120 x 55 4,724 x 2,170	13.35 8.96	7 .276	9 .354	9 .354	4.5 .177	30 1.181	17 .67

+ Not yet available

E Not Standardised.

1.577 ± 1.330	3.20	5	7	7	3.5	20	11
50 ± 33	5.33	5	7	7	3.5	20	11
1.970 ± 1.560	3.75	5	7	7	3.5	20	11
65 ± 42	7.09	5.5	7.5	7.5	4	25	14
2.862 ± 1.655	4.75	5.5	7.5	7.5	4	25	14
80 ± 45	6.64	6	8	8	4	25	14
3.136 ± 1.770	5.80	6	8	8	4	25	14
100 ± 50	10.60	6	8.5	8.5	4.5	30	14
3.973 ± 1.970	7.12	6	8.5	8.5	4.5	30	14
120 ± 55	13.35	7	9	9	4.5	30	17
4.724 ± 2.170	8.96	7	9	9	4.5	30	17

± Not Standardised.

+ Not yet available

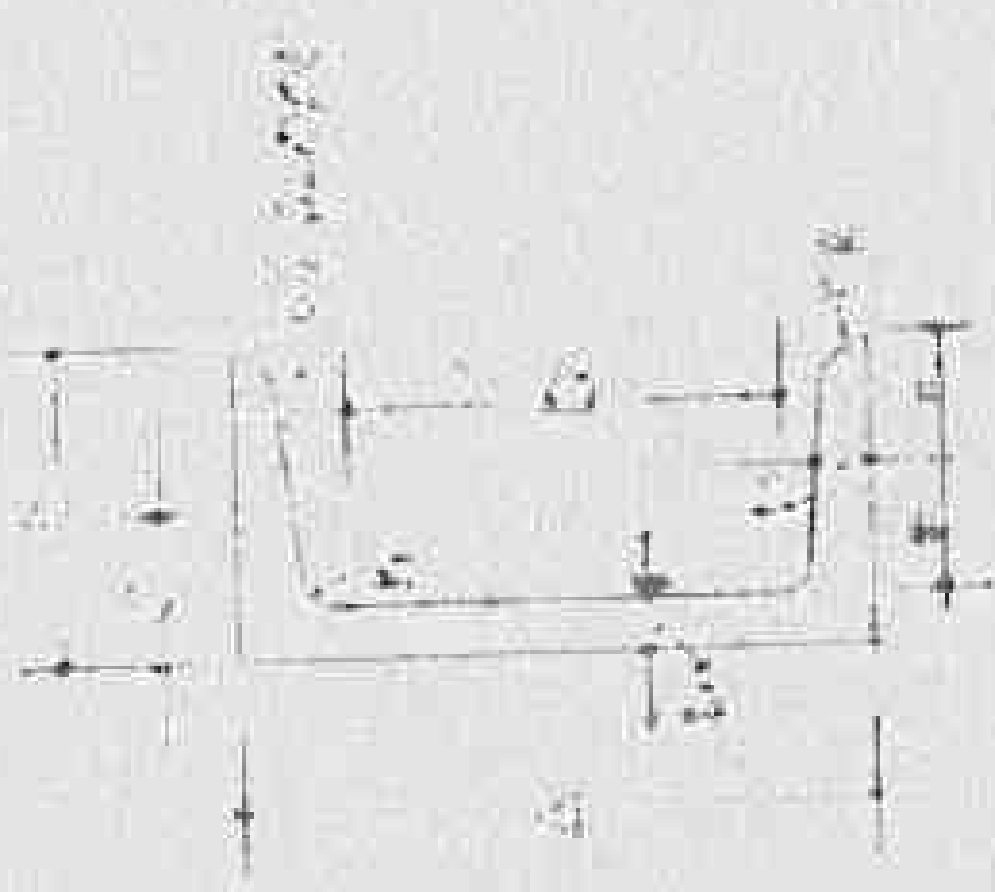


Fig. 3

1991

Declassified E.O. 12356 Section 3.3/NND No.

785021

ROUNDS & REINFORCEMENT

STANDARD DIMENSIONS :-
 15 - 50 m/m. 6 to 10 Metres
 Rounds (60 - 110 m/m 3 to 5 Metres
 Reinforcing Rods 10 to 15 Metres

SYM	DIAMETER	SECTION AREA			WEIGHT	
		sq. m/m	Sq. Ins	sq. Metres	lbs/ft	
R/1	5	19.637	0.03014	0.152	0.102	
R/2	6	28.274	0.04381	0.220	0.1478	
R/3	8	50.265	0.07789	0.391	0.2627	
R/4	9.5	70.882	0.1098	0.554	0.3722	
R/5	12.5	122.7	0.1901	0.950	0.6437	
R/6	16	201.06	0.3116	1.567	1.053	
R/7	19	283.53	0.4392	2.241	1.486	
R/8	22	380.13	0.5891	2.964	1.992	
R/9	25	420.87	0.7603	3.928	2.572	
R/10	28	615.75	0.9543	4.802	3.226	
R/11	32	804.25	1.247	6.272	4.214	
R/12	35	962.11	1.491	7.305	5.042	
R/13	38	1134.1	1.738	8.843	5.941	
R/14	41	1320.3	2.046	10.297	6.915	
R/15	45	1590.4	2.465	12.404	8.353	
R/16	48	1809.6	2.804	14.114	9.482	
R/17	50	1963.5	3.044	15.314	10.29	
R/18	60	2877.4	4.381	22.053	14.81	

1992

R/5	12.5	201.06	0.3116	1.557	1.953
R/6	16	285.55	0.4394	2.211	1.416
R/7	19	380.13	0.5891	2.904	1.992
R/8	22	490.87	0.7603	3.838	2.572
R/9	25	615.75	0.9543	4.802	3.226
R/10	28	804.25	1.217	6.272	4.214
R/11	32	962.11	1.491	7.503	5.042
R/12	35	1134.1	1.798	8.843	5.941
R/13	38	1320.5	2.046	10.237	6.913
R/14	41	1590.4	2.465	12.404	8.353
R/15	45	1809.6	2.804	14.414	9.482
R/16	48	1963.5	3.044	15.314	10.29
R/17	50	2077.4	4.381	22.053	14.81
R/18	60	3048.5	5.904	30.017	20.17
R/19	70	5026.5	7.739	39.206	26.34
R/20	80	6561.7	9.860	49.680	33.34
R/21	90	7854.0	12.17	61.259	41.16
R/22	100	9593.3	14.72	74.124	49.80
R/23	110				

5602

1993

Declassified E.O. 12356 Section 3.3/NND No. 785021SQUARES

Standard Lengths 6 to 10 Metres

Sym	SECTION WIDTH		SECTION AREA		WEIGHT	
	Ins	W/M	Sq Ins	Sq W/M	Lbs/Foot	Lbs/Metre
S/1	.197	5	.03875	25	.1310	.195
S/2	.236	6	.0558	36	.1888	.281
S/3	.315	8	.0992	64	.3333	.499
S/4	.394	10	.155	100	.5241	.780
S/5	.472	12	.2232	144	.7544	1.123
S/6	.530	16	.3968	256	1.342	1.997
S/7	.743	19	.5595	361	1.892	2.816
S/8	.768	22	.7502	484	2.536	3.775
S/9	.934	25	.9637	625	3.275	4.875
S/10	1.102	28	1.2152	784	4.109	6.115
S/11	1.260	32	1.5872	1024	5.367	7.987
S/12	1.378	35	1.8987	1225	6.419	9.555
S/13	1.496	38	2.2382	1444	7.635	11.263
S/14	1.614	41	2.6055	1681	8.814	13.120
S/15	1.772	45	3.1387	2025	10.61	15.795
S/16	1.890	48	3.5712	2304	12.08	17.971
S/17	1.969	50	3.875	2500	13.10	19.50
S/18	2.053	75	8.7218	5625	29.47	43.575

1994

Declassified E.O. 12356 Section 3.3/NND No. 785021

5/5	1.72	12	256	1.342	1.997
5/6	.650	16	361	1.892	2.816
5/7	.743	19	484	2.556	3.775
5/8	.865	22	625	3.275	4.875
5/9	.984	25	784	4.109	6.115
5/10	1.402	28	1024	5.567	7.987
5/11	1.560	32	1296	6.419	9.555
5/12	1.578	35	1624	7.655	11.263
5/13	1.496	38	1681	8.614	13.130
5/14	1.614	41	2025	10.61	15.795
5/15	1.772	45	2304	12.05	17.971
5/16	1.990	48	2500	13.10	19.50
5/17	1.969	50	5627	29.47	43.875
5/18	2.955	75	10000	52.41	78.001
5/19	3.937	100			

58-1

PLATE

DETERMINATIONS

Standard Lengths 6 to 8 inches

Ref.	Mark	Dimensions		Section Area		Weight	
		mm	Ins.	Sq mm	Sq Ins.	Kgs/Metre	Lbs/Foot
DN 2/1	2	10 x 2	.394 x .079	20	.031	.15	.10
	3	10 x 3	.394 x .118	30	.046	.24	.16
	4	12 x 3	.472 x .118	36	.056	.28	.19
	5	15 x 3	.630 x .118	48	.074	.37	.25
	6	19 x 3	.748 x .118	57	.088	.45	.30
	7	25 x 3	.985 x .118	75	.116	.58	.39
	8	32 x 3	1.260 x .118	96	.149	.76	.51
	9	46 x 3	1.577 x .118	120	.186	.94	.63
	10	60 x 3	2.362 x .118	160	.279	1.41	.95
	11	12 x 5	.472 x .197	60	.093	1.41	.95
	12	19 x 5	.748 x .197	95	.147	.48	.32
	13	25 x 5	.985 x .197	125	.194	.74	.50
	14	32 x 5	1.260 x .197	160	.248	.98	.66
	15	40 x 5	1.577 x .197	200	.310	1.25	.84
	16	50 x 5	1.970 x .197	250	.388	1.56	1.05
	17	60 x 5	2.362 x .197	300	.465	1.96	1.32
	18	14 x 8	.55 x .313	112	.173	2.35	1.58
	19	25 x 8	.985 x .313	200	.310	.88	.59
	20	35 x 8	1.380 x .313	280	.434	1.56	1.05
	21	45 x 8	1.770 x .313	360	.558	2.20	1.48
	22	50 x 8	1.970 x .313	400	.620	2.82	1.90
	23	60 x 8	2.362 x .313	480	.744	3.14	2.11
	24	80 x 8	3.156 x .313	640	.992	3.76	2.53
	25	100 x 8	3.937 x .313	800	1.240	5.05	3.38
	26	16 x 10	.630 x .394	160	.248	6.25	4.22
	27	25 x 10	.985 x .394	250	.388	1.25	.84
	28	35 x 10	1.380 x .394	350	.558	1.96	1.32
	29	45 x 10	1.770 x .394	450	.620	2.74	1.84
	30	50 x 10	1.970 x .394	500	.776	3.51	2.38
	31	60 x 10	2.362 x .394	600	.942	3.93	2.64
	32	80 x 10	3.156 x .394	800	1.240	6.25	4.22
	33	100 x 10	3.937 x .394	1000	1.550	7.55	5.07
	34	140 x 10	5.512 x .394	1400	2.170	11.00	7.38
	35	160 x 10	6.299 x .394	1600	2.480	12.52	8.43
	36	12 x 12	.736 x .472	216	.335	1.70	1.14
	37	25 x 12	.985 x .472	300	.465	2.35	1.58
	38	38 x 12	1.500 x .472	456	.708	3.60	2.42
	39	50 x 12	1.970 x .472	600	.950	4.70	3.16
	40	60 x 12	2.362 x .472	720	1.140	5.53	3.66
		80 x 12	3.156 x .472	960	1.490	7.40	5.06
	100 x 12	3.937 x .472	1200	1.860	9.40	6.32	
	25 x 14	.985 x .570	350	.542	2.74	1.84	

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TABLE

Ref Mark DW/-	Thickness		Width		Length	
	m.m.	ins	m.m.	ins	m.m.	feet
E/1	5	3/16+	1250	49.21	6500	21.325
E/2	5	1/4-	1250	49.21	7000	22.966
E/3	5	5/16+	1250	49.21	8500	27.888
E/4	9	3/8-	1250	49.21	10000	32.809
E/5	11	7/16-	1250	49.21	12000	39.371
E/6	13	1/2+	1250	49.21	12000	39.371
E/7	16	5/8+	1250	49.21	12000	39.371
E/8	19	3/4-	1250	49.21	12000	39.371
E/9	22	1+	1250	49.21	12000	39.371
E/10	26	1+	1250	49.21	12000	39.371
E/11	32	1 1/2+	1250	49.21	13000	42.652
E/12	38	1 1/2-	1250	49.21	13000	42.652

NOTE (a) Plate will normally be cut to half length for delivery unless full length is specifically asked for.

(b) Thickness in inches is shown to the nearest 1/16th millimetro size to which the plate is rolled. + or - indicates that the actual thickness of the plate is greater or less than the dimension shown.

E/3	8	5/16+	1250	49.21	8500	27.886
E/4	9	3/8-	1250	49.21	10000	32.809
E/5	11	7/16-	1250	49.21	12000	39.371
E/6	13	1/2+	1250	49.21	12000	39.371
E/7	16	5/8+	1250	49.21	12000	39.371
E/8	19	3/4-	1250	49.21	12000	39.371
E/9	22	1+	1250	49.21	12000	39.371
E/10	26	1 1/4+	1250	49.21	12000	39.371
E/11	32	1 1/2+	1250	49.21	13000	42.652
E/12	38	1 3/4-	1250	49.21	13000	42.652

NOTE (a) Plate will normally be cut to half length for delivery unless full length is specifically asked for.

(b) Thickness in inches is shown to the nearest 1/16th millimetro size to which the plate is varied. + or - indicates that the actual thickness of the plate is greater or less than the dimension shown.

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REF	THICKNESS	LENGTH	WEIGHT	REF	THICKNESS	LENGTH	WEIGHT	REF	THICKNESS	LENGTH	WEIGHT
DW	W. A.	W. A.	W. A.	DW	W. A.	W. A.	W. A.	DW	W. A.	W. A.	W. A.
SH/1	0.15	50	744	27.99	500	20	SH/174	1.20	18	2500	98.45
SH/2	0.20	50	1030	40.15	550	24.65	SH/175	1.20	18	3000	118.11
SH/3	0.25	50	1070	40.16	550	24.65	SH/176	1.20	18	2000	78.74
SH/4	0.30	50	1020	40.16	550	24.65	SH/177	1.40	17	2500	98.45
SH/5	0.35	50	1020	40.16	550	24.65	SH/178	1.40	17	3000	118.11
SH/6	0.40	50	2000	78.74	1000	59.37	SH/179	1.40	17	2000	78.74
SH/7	0.45	50	2000	78.74	1000	59.37	SH/180	1.50	17	2500	98.45
SH/8	0.50	50	2000	78.74	1000	59.37	SH/181	1.50	17	3000	118.11
SH/9	0.55	50	2000	78.74	1000	59.37	SH/182	1.50	17	2000	78.74
SH/10	0.60	50	2000	78.74	1000	59.37	SH/183	1.60	16	2500	98.45
SH/11	0.65	50	2000	78.74	1000	59.37	SH/184	1.60	16	3000	118.11
SH/12	0.70	50	2000	78.74	1000	59.37	SH/185	1.60	16	2000	78.74
SH/13	0.75	50	2000	78.74	1000	59.37	SH/186	1.80	15	2500	98.45
SH/14	0.80	50	2000	78.74	1000	59.37	SH/187	1.80	15	3000	118.11
SH/15	0.85	50	2000	78.74	1000	59.37	SH/188	1.80	15	2000	78.74
SH/16	0.90	50	2000	78.74	1000	59.37	SH/189	2.00	14	2500	98.45
SH/17	0.95	50	2000	78.74	1000	59.37	SH/190	2.00	14	3000	118.11
SH/18	1.00	50	2000	78.74	1000	59.37	SH/191	2.00	14	2000	78.74
SH/19	1.05	50	2000	78.74	1000	59.37	SH/192	2.20	13	2500	98.45
SH/20	1.10	50	2000	78.74	1000	59.37	SH/193	2.20	13	3000	118.11
SH/21	1.15	50	2000	78.74	1000	59.37	SH/194	2.20	13	2000	78.74
SH/22	1.20	50	2000	78.74	1000	59.37	SH/195	2.50	12	2500	98.45
SH/23	1.25	50	2000	78.74	1000	59.37	SH/196	2.50	12	3000	118.11
SH/24	1.30	50	2000	78.74	1000	59.37	SH/197	2.50	12	2000	78.74
SH/25	1.35	50	2000	78.74	1000	59.37	SH/198	3.00	10	2500	98.45
SH/26	1.40	50	2000	78.74	1000	59.37	SH/199	3.00	10	3000	118.11
SH/27	1.45	50	2000	78.74	1000	59.37	SH/200	3.00	10	2000	78.74
SH/28	1.50	50	2000	78.74	1000	59.37	SH/201	3.50	9	2500	98.45
SH/29	1.55	50	2000	78.74	1000	59.37	SH/202	3.50	9	3000	118.11
SH/30	1.60	50	2000	78.74	1000	59.37	SH/203	3.50	9	2000	78.74
SH/31	1.65	50	2000	78.74	1000	59.37	SH/204	4.00	8	2500	98.45
SH/32	1.70	50	2000	78.74	1000	59.37	SH/205	4.00	8	3000	118.11
SH/33	1.75	50	2000	78.74	1000	59.37	SH/206	4.50	7	2000	78.74
SH/34	1.80	50	2000	78.74	1000	59.37	SH/207	4.50	7	2500	98.45
SH/35	1.85	50	2000	78.74	1000	59.37	SH/208	4.50	7	3000	118.11
SH/36	1.90	50	2000	78.74	1000	59.37	SH/209	4.50	7	2000	78.74
SH/37	1.95	50	2000	78.74	1000	59.37	SH/210	4.50	7	2500	98.45
SH/38	2.00	50	2000	78.74	1000	59.37	SH/211	4.50	7	3000	118.11
SH/39	2.05	50	2000	78.74	1000	59.37	SH/212	4.50	7	2000	78.74
SH/40	2.10	50	2000	78.74	1000	59.37	SH/213	4.50	7	2500	98.45
SH/41	2.15	50	2000	78.74	1000	59.37	SH/214	4.50	7	3000	118.11
SH/42	2.20	50	2000	78.74	1000	59.37	SH/215	4.50	7	2000	78.74
SH/43	2.25	50	2000	78.74	1000	59.37	SH/216	4.50	7	2500	98.45
SH/44	2.30	50	2000	78.74	1000	59.37	SH/217	4.50	7	3000	118.11
SH/45	2.35	50	2000	78.74	1000	59.37	SH/218	4.50	7	2000	78.74
SH/46	2.40	50	2000	78.74	1000	59.37	SH/219	4.50	7	2500	98.45
SH/47	2.45	50	2000	78.74	1000	59.37	SH/220	4.50	7	3000	118.11
SH/48	2.50	50	2000	78.74	1000	59.37	SH/221	4.50	7	2000	78.74
SH/49	2.55	50	2000	78.74	1000	59.37	SH/222	4.50	7	2500	98.45
SH/50	2.60	50	2000	78.74	1000	59.37	SH/223	4.50	7	3000	118.11
SH/51	2.65	50	2000	78.74	1000	59.37	SH/224	4.50	7	2000	78.74
SH/52	2.70	50	2000	78.74	1000	59.37	SH/225	4.50	7	2500	98.45
SH/53	2.75	50	2000	78.74	1000	59.37	SH/226	4.50	7	3000	118.11
SH/54	2.80	50	2000	78.74	1000	59.37	SH/227	4.50	7	2000	78.74
SH/55	2.85	50	2000	78.74	1000	59.37	SH/228	4.50	7	2500	98.45
SH/56	2.90	50	2000	78.74	1000	59.37	SH/229	4.50	7	3000	118.11
SH/57	2.95	50	2000	78.74	1000	59.37	SH/230	4.50	7	2000	78.74
SH/58	3.00	50	2000	78.74	1000	59.37	SH/231	4.50	7	2500	98.45
SH/59	3.05	50	2000	78.74	1000	59.37	SH/232	4.50	7	3000	118.11
SH/60	3.10	50	2000	78.74	1000	59.37	SH/233	4.50	7	2000	78.74
SH/61	3.15	50	2000	78.74	1000	59.37	SH/234	4.50	7	2500	98.45
SH/62	3.20	50	2000	78.74	1000	59.37	SH/235	4.50	7	3000	118.11
SH/63	3.25	50	2000	78.74	1000	59.37	SH/236	4.50	7	2000	78.74
SH/64	3.30	50	2000	78.74	1000	59.37	SH/237	4.50	7	2500	98.45
SH/65	3.35	50	2000	78.74	1000	59.37	SH/238	4.50	7	3000	118.11
SH/66	3.40	50	2000	78.74	1000	59.37	SH/239	4.50	7	2000	78.74
SH/67	3.45	50	2000	78.74	1000	59.37	SH/240	4.50	7	2500	98.45
SH/68	3.50	50	2000	78.74	1000	59.37	SH/241	4.50	7	3000	118.11
SH/69	3.55	50	2000	78.74	1000	59.37	SH/242	4.50	7	2000	78.74
SH/70	3.60	50	2000	78.74	1000	59.37	SH/243	4.50	7	2500	98.45
SH/71	3.65	50	2000	78.74	1000	59.37	SH/244	4.50	7	3000	118.11
SH/72	3.70	50	2000	78.74	1000	59.37	SH/245	4.50	7	2000	78.74
SH/73	3.75	50	2000	78.74	1000	59.37	SH/246	4.50	7	2500	98.45
SH/74	3.80	50	2000	78.74	1000	59.37	SH/247	4.50	7	3000	118.11
SH/75	3.85	50	2000	78.74	1000	59.37	SH/248	4.50	7	2000	78.74
SH/76	3.90	50	2000	78.74	1000	59.37	SH/249	4.50	7	2500	98.45
SH/77	3.95	50	2000	78.74	1000	59.37	SH/250	4.50	7	3000	118.11
SH/78	4.00	50	2000	78.74	1000	59.37	SH/251	4.50	7	2000	78.74
SH/79	4.05	50	2000	78.74	1000	59.37	SH/252	4.50	7	2500	98.45
SH/80	4.10	50	2000	78.74	1000	59.37	SH/253	4.50	7	3000	118.11
SH/81	4.15	50	2000	78.74	1000	59.37	SH/254	4.50	7	2000	78.74
SH/82	4.20	50	2000	78.74	1000	59.37	SH/255	4.50	7	2500	98.45
SH/83	4.25	50	2000	78.74	1000	59.37	SH/256	4.50	7	3000	118.11
SH/84	4.30	50	2000	78.74	1000	59.37	SH/257	4.50	7	2000	78.74
SH/85	4.35	50	2000	78.74	1000	59.37	SH/258	4.50	7	2500	98.45
SH/86	4.40	50	2000	78.74	1000	59.37	SH/259	4.50	7	3000	118.11
SH/87	4.45	50	2000	78.74	1000	59.37	SH/260	4.50	7	2000	78.74
SH/88	4.50	50	2000	78.74	1000	59.37	SH/261	4.50	7	2500	98.45
SH/89	4.55	50	2000	78.74	1000	59.37	SH/262	4.50	7	3000	118.11
SH/90	4.60	50	2000	78.74	1000	59.37	SH/263	4.50	7	2000	78.74
SH/91	4.65	50	2000	78.74	1000	59.37	SH/264	4.50	7	2500	98.45
SH/92	4.70	50	2000	78.74	1000	59.37	SH/265	4.50	7	3000	118.11
SH/93	4.75	50	2000	78.74	1000	59.37	SH/266	4.50	7	2000	78.74
SH/94	4.80	50	2000	78.74	1000	59.37	SH/267	4.50	7	2500	98.45
SH/95	4.85	50	2000	78.74	1000	59.37	SH/268	4.50	7	3000	118.11
SH/96	4.90	50	2000	78.74	1000	59.37	SH/269	4.50	7	2000	78.74
SH/97	4.95	50	2000	78.74	1000	59.37	SH/270	4.50	7	2500	98.45
SH/98	5.00	50	2000	78.74	1000	59.37	SH/271	4.50	7	3000	118.11
SH/99	5.05	50	2000	78.74	1000	59.37	SH/272	4.50	7	2000	78.74
SH/100	5.10	50	2000	78.74	1000	59.37	SH/273	4.50	7	2500	98.45
SH/101	5.15	50	2000	78.74	1000	59.37	SH/274	4.50	7	3000	118.11
SH/102	5.20	50	2000	78.74	1000	59.37	SH/275	4.50	7	2000	78.74
SH/103	5.25	50	2000	78.74	1000	59.37	SH/276	4.50	7	2500	98.45
SH/104	5.30	50	2000	78.74	1000	59.37	SH/277	4.50	7	3000	118.11
SH/105	5.35	50	2000	78.74	1000	59.37	SH/278	4.50	7	2000	78.74
SH/106	5.40	50	2000	78.74	1000	59.37	SH/279	4.50	7	2500	98.45

2000