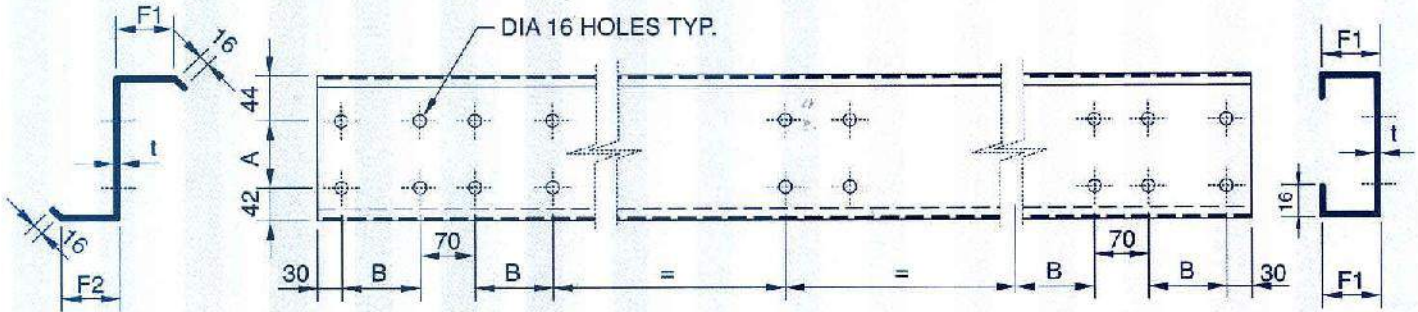




DIMENSION AND PROPERTIES SHEET



PURLIN SECTION & ELEVATION

SECTION REF	DEPTH D mm	TOP FLANGE F1 mm	BOTT FLANGE F2 mm	THICK-NESS t mm	A mm	B mm	Wt./m Kg.	AREA Cm ²	I _x Cm ²	Z _{xy} Cm ²	I _y Cm ²	F _{yy} Cm	y mm	x mm
17215	172	55	50	1.5	86	170	3.47	4.815	220.38	25.24	38.16	2.815	59.42	87.33
17220	172	55	50	2.0	86	170	4.65	6.380	289.95	33.20	49.46	2.784	59.17	87.33
20215	202	55	50	1.5	116	200	3.86	5.265	320.92	31.33	38.17	2.693	59.32	102.43
20220	202	55	50	2.0	116	200	5.10	6.980	422.73	41.27	49.47	2.662	59.07	102.43

LOADING DATA TABLE

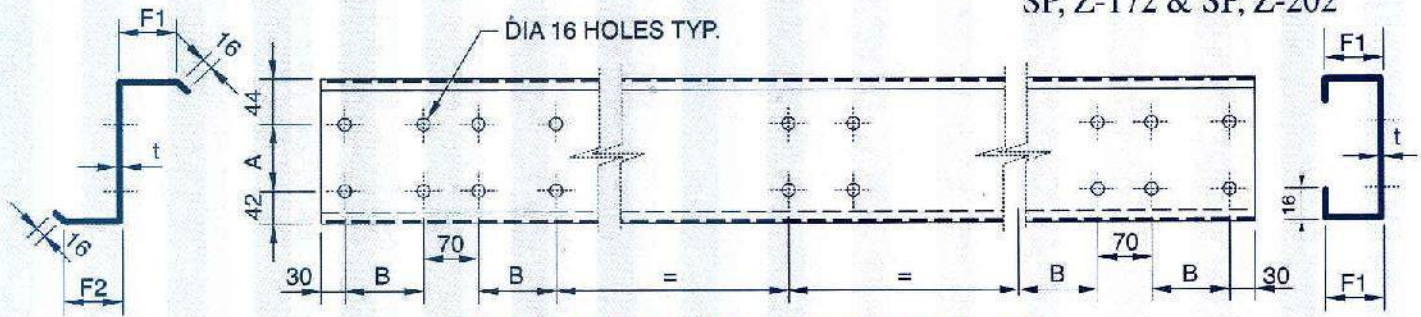
a. CALCULATIONS ARE AS PER BS5950 PART V
b. LOAD CONSIDERED ARE FOR TWO OR MORE BAYS
c. SELF WEIGHT OF PURLIN IS DEDUCTED
d. TABLES ARE VALID UPTO ROOF SLOPE OF 25°

SPAN M ↓	SECTION NUMBER ↓	ALLOWABLE LOADINGS IN NEWTON/Sq. METER PURLIN CENTERS IN MILLIMETERS									
		1000	1250	1500	1750	2000	2250	2500	2750	3000	
4.00	17215	3906	3117	2591	2216	1934	1715	1540	1396	1277	
	17220	5137	4099	3408	2914	2543	2255	2024	1836	1678	
	20215	4854	3875	3222	2756	2407	2135	1917	1739	1591	
	20220	6393	5103	4244	3630	3169	2811	2524	2290	2094	
4.50	17215	3078	2455	2039	1743	1520	1347	1208	1095	1001	
	17220	4048	3228	2682	2291	1999	1771	1589	1440	1315	
	20215	3827	3053	2538	2169	1893	1678	1506	1366	1248	
	20220	5040	4021	3342	2856	2493	2209	1983	1798	1843	
5.00	17215	2486	1981	1645	1404	1224	1084	972	880	803	
	17220	3269	2605	2162	1846	1609	1425	1277	1156	1056	
	20215	3092	2465	2048	1749	1526	1351	1212	1098	1003	
	20220	4072	3247	2696	2303	2009	1596	1779	1446	1321	
5.50	17215	2048	1631	1353	1154	1005	796	889	721	657	
	17220	2693	2144	1778	1517	1321	1047	1169	947	864	
	20215	2548	2030	1685	1438	1254	995	1110	900	822	
	20220	3356	2674	2219	1894	1651	1309	1461	185	1082	

DIMENSION AND PROPERTIES SHEET

Z-PURLINS

SP, Z-172 & SP, Z-202



PURLIN SECTION & ELEVATION

GALVANISED ROLLFORMED "Z" PURLINS SPECIFICATION

- Purlins and girts are 172mm /202mm deep, galvanized steel conforming to ASTM A 446 grade D. Zinc Coating on galvanized steel is achieved through a continuous hot dip galvanizing process that equals 275 gms/m² class G 90.
- Calculation dimensions are out to out of section thickness "t".
- All section are designed in accordance with the specifications for cold formed steel structural members, AISI 1990 Edition.
- Specific yield strength "Fy" of light gauge cold formed steel = 34.50 KN/cm²

LOADING DATA TABLE

a. CALCULATIONS ARE AS PER BS5950 PART V
c. SELF WEIGHT OF PURLIN IS DEDUCTED

b. LOAD CONSIDERED ARE FOR TWO OR MORE BAYS
d. TABLES ARE VALID UPTO ROOF SLOPE OF 25°

SPAN M	SECTION NUMBER	ALLOWABLE LOADINGS IN NEWTON/Sq. METER PURLIN CENTERS IN MILLIMETERS								
		1000	1250	1500	1750	2000	2250	2500	2750	3000
6.00	17215	1715	1364	1131	964	839	741	697	559	546
	17220	2255	1794	1486	1267	1102	974	871	788	718
	20215	2135	1700	1410	1202	1047	926	829	750	684
	20220	2811	2238	1856	1583	1378	1219	1091	987	900
6.50	17215	1455	1156	957	815	709	628	559	506	460
	17220	1913	1520	1258	1071	931	822	735	663	604
	20215	1813	1442	1195	1018	886	783	701	633	577
	20220	2387	1899	1573	1340	1166	1030	922	833	759
7.00	17215	1250	992	821	698	606	534	477	430	391
	17220	1643	1304	1078	917	796	702	623	565	514
	20215	1557	1237	1024	872	758	669	598	540	492
	20220	2051	1630	1349	1148	998	881	787	711	647
7.50	17215	1084	860	710	603	523	461	411	370	--
	17220	1425	1130	933	792	687	605	539	486	441
	20215	1351	1073	887	754	655	578	516	465	423
	20220	1779	1412	1168	993	862	760	679	612	556



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