

DIAPHRAGM SHEAR STRENGTH (PLF)

1.5CF, 2.0CF, 3.0CF
SUPPORT FASTENING:
STITCH FASTENING:
SAFETY FACTOR:

WITH STRUCTURAL CONCRETE (NW)
5/8" PUDDLE WELDS
#10 TEK SCREWS OR WELDS
3.25

TYPE FASTENER LAYOUT	SIDE LAP FASTENING PER SPAN	LAP SPAN (FT.-IN.)										
		4-0	5-0	6-0	7-0	8-0	9-0	10-0	11-0	12-0	13-0	14-0
22 GA 24/3	0	1695	1660	1630	1610	1600	1585	1580	1570	1565	1560	
	1	1800	1740	1700	1670	1650	1630	1620	1610	1600	1590	
	2	1900	1820	1765	1725	1700	1675	1660	1645	1630	1620	
	3	2000	1900	1830	1785	1750	1720	1700	1680	1665	1655	
	4	2100	1980	1900	1840	1800	1765	1740	1715	1700	1685	
	5	2200	2060	1965	1900	1850	1810	1780	1755	1730	1715	
	6	2300	2140	2030	1955	1900	1855	1820	1790	1765	1745	
20 GA 24/3	0	1735	1690	1660	1635	1620	1605	1595	1585	1580	1570	
	1	1855	1785	1740	1705	1680	1660	1640	1630	1620	1610	
	2	1980	1880	1820	1775	1740	1710	1690	1675	1660	1645	
	3	2100	1980	1900	1840	1800	1765	1740	1715	1700	1685	
	4	2220	2075	1980	1910	1860	1820	1785	1760	1740	1720	
	5	2340	2170	2060	1980	1920	1875	1835	1805	1780	1760	
	6	2460	2270	2140	2050	1980	1925	1885	1850	1820	1795	
18 GA 24/3	0		1755	1715	1685	1665	1645	1635	1620	1610	1605	1595
	1		1880	1820	1775	1740	1715	1695	1680	1665	1650	1640
	2		2005	1925	1865	1820	1785	1760	1735	1715	1700	1685
	3		2130	2030	1955	1900	1855	1820	1790	1770	1750	1730
	4		2255	2130	2045	1975	1925	1885	1850	1820	1795	1775
	5		2380	2235	2130	2055	1995	1945	1905	1875	1845	1820
	6		2505	2340	2220	2135	2065	2010	1965	1925	1895	1865
16 GA 24/3	0		1800	1750	1710	1685	1665	1645	1635	1620	1610	1605
	1		1955	1875	1820	1780	1750	1725	1705	1685	1670	1660
	2		2110	2005	1935	1880	1835	1800	1775	1750	1730	1715
	3		2260	2135	2045	1975	1920	1880	1845	1815	1790	1770
	4		2415	2265	2155	2070	2005	1855	1915	1880	1850	1825
	5		2560	2390	2265	2165	2090	2035	1985	1945	1910	1870
	6		2725	2520	2375	2265	2180	2110	2055	2005	1970	1935

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5/8" PUDDLE WELDS
#10 TEK SCREWS OR WELDS
3.25

TYPE FASTENER LAYOUT	SIDE LAP FASTENING PER SPAN	LAP SPAN (FT.-IN.)										
		4-0	5-0	6-0	7-0	8-0	9-0	10-0	11-0	12-0	13-0	14-0
22 GA 36/4	0	1705	1670	1640	1620	1610	1595	1590	1580	1575	1570	
	1	1810	1750	1710	1680	1660	1640	1630	1620	1610	1600	
	2	1910	1830	1775	1735	1710	1685	1670	1655	1640	1630	
	3	2010	1910	1840	1795	1760	1730	1710	1690	1675	1665	
	4	2110	1990	1910	1850	1810	1775	1750	1725	1710	1695	
	5	2210	2070	1975	1910	1860	1820	1790	1765	1740	1725	
	6	2310	2150	2040	1965	1910	1865	1830	1800	1775	1755	
20 GA 36/4	0	1745	1700	1670	1645	1630	1615	1605	1595	1590	1580	
	1	1865	1795	1750	1715	1690	1670	1650	1640	1620	1620	
	2	1990	1890	1830	1785	1750	1720	1700	1685	1670	1655	
	3	2110	1990	1910	1850	1810	1775	1750	1725	1710	1695	
	4	2230	2085	1990	1920	1870	1830	1795	1770	1750	1730	
	5	2350	2180	2070	1990	1930	1885	1845	1815	1790	1770	
	6	2470	2280	2150	2060	1990	1935	1895	1860	1830	1805	
18 GA 36/4	0		1755	1715	1685	1665	1645	1635	1620	1610	1605	1595
	1		1880	1820	1775	1740	1715	1695	1680	1665	1650	1640
	2		2005	1925	1865	1820	1785	1760	1735	1715	1700	1685
	3		2130	2030	1955	1900	1855	1820	1790	1770	1750	1730
	4		2255	2130	2045	1975	1925	1885	1850	1820	1795	1775
	5		2380	2235	2130	2055	1995	1945	1905	1875	1845	1820
	6		2505	2340	2220	2135	2065	2010	1965	1925	1895	1865
16 GA 36/4	0		1815	1765	1725	1700	1680	1660	1650	1635	1625	1620
	1		1970	1890	1835	1795	1765	1740	1720	1700	1685	1675
	2		2125	2020	1950	1895	1850	1815	1790	1765	1745	1730
	3		2275	2150	2060	1990	1935	1895	1860	1830	1805	1785
	4		2430	2280	2170	2085	2020	1970	1930	1895	1865	1840
	5		2585	2405	2280	2180	2105	2050	2000	1960	1925	1895
	6		2740	2535	2390	2280	2195	2125	2070	2020	1985	1950