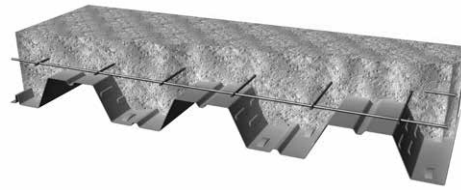


2.4 3WxH-36 Composite Deck

5" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.080yd³/100ft²



Maximum Unshored Span (in)

Gage	Single	Double	Triple
22	11' - 2"	12' - 0"	12' - 5"
21	12' - 2"	12' - 10"	13' - 4"
20	12' - 7"	13' - 8"	14' - 1"

Gage	Single	Double	Triple
19	13' - 1"	15' - 2"	15' - 3"
18	13' - 6"	16' - 7"	15' - 9"
16	14' - 2"	17' - 8"	16' - 7"

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
22	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	330	289	255	226	202	181	162	146	132	120	109	99	91	83	76
	LRFD, φW	442	387	341	302	268	240	215	193	174	157	142	129	117	106	97
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld ½" Effective Dia	1711	1686	1663	1654	1635	1618	1602	1588	1575	1571	1560	1550	1540	1531	1522
	PAF Base Steel ≥ .25"	1522	1508	1495	1494	1483	1473	1464	1456	1449	1450	1443	1437	1432	1426	1421
	PAF Base Steel ≥ 0.125"	1507	1494	1482	1482	1471	1462	1454	1446	1439	1441	1434	1429	1423	1418	1413
	#12 Screw Base Steel ≥ .0385"	1493	1481	1469	1470	1460	1452	1444	1436	1430	1432	1426	1420	1415	1411	1406
	Concrete + Deck =	33.8 psf				I _{cr} = 53.5 in ⁴ /ft		M _{no} /Ω = 30.3 kip-in/ft		V _n /Ω = 2.83 kip/ft						
	(I _{cr} +I _u)/2 = 83.9 in ⁴ /ft				I _u = 114.4 in ⁴ /ft		φM _{no} = 46.4 kip-in/ft		φV _n = 4.05 kip/ft							

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
21	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	362	318	281	249	222	199	179	162	147	133	121	109	98	88	80
	LRFD, φW	486	426	375	333	296	265	238	214	193	175	159	144	131	119	109
	L/360	-	-	-	-	-	-	-	-	-	-	-	109	98	88	80
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld ½" Effective Dia	1776	1746	1720	1710	1689	1669	1651	1635	1620	1616	1603	1591	1580	1569	1559
	PAF Base Steel ≥ .25"	1558	1541	1527	1527	1514	1503	1493	1483	1475	1477	1469	1462	1455	1449	1443
	PAF Base Steel ≥ 0.125"	1541	1526	1512	1513	1501	1490	1481	1472	1463	1466	1459	1452	1446	1440	1434
	#12 Screw Base Steel ≥ .0385"	1527	1512	1499	1501	1489	1479	1470	1461	1454	1457	1450	1443	1437	1432	1427
	Concrete + Deck =	34.1 psf				I _{cr} = 57.4 in ⁴ /ft		M _{no} /Ω = 33.1 kip-in/ft		V _n /Ω = 2.86 kip/ft						
	(I _{cr} +I _u)/2 = 87 in ⁴ /ft				I _u = 116.5 in ⁴ /ft		φM _{no} = 50.6 kip-in/ft		φV _n = 4.94 kip/ft							

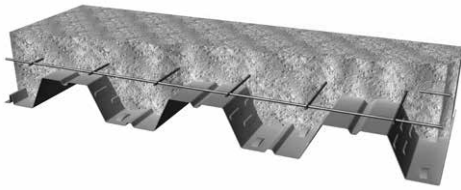
GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
20	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	392	344	304	271	242	217	195	176	160	142	126	113	101	91	82
	LRFD, φW	527	462	408	362	322	289	259	234	211	192	174	158	144	132	121
	L/360	-	-	-	-	-	-	-	-	-	-	142	126	113	101	91
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld ½" Effective Dia	1824	1791	1762	1753	1729	1707	1688	1669	1653	1650	1636	1622	1610	1598	1587
	PAF Base Steel ≥ .25"	1585	1567	1550	1552	1538	1525	1514	1503	1494	1497	1489	1481	1473	1466	1460
	PAF Base Steel ≥ 0.125"	1567	1550	1534	1537	1524	1512	1501	1491	1482	1486	1478	1470	1463	1456	1450
	#12 Screw Base Steel ≥ .0385"	1552	1535	1521	1524	1511	1500	1490	1480	1472	1476	1468	1461	1454	1448	1442
	Concrete + Deck =	34.2 psf				I _{cr} = 61.0 in ⁴ /ft		M _{no} /Ω = 35.6 kip-in/ft		V _n /Ω = 2.86 kip/ft						
	(I _{cr} +I _u)/2 = 89.8 in ⁴ /ft				I _u = 118.5 in ⁴ /ft		φM _{no} = 54.5 kip-in/ft		φV _n = 5.73 kip/ft							

3WxH-36 Composite Deck 2.4

5" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.080yd³/100ft²



3WxH PANELS

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
19	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	453	399	353	314	281	252	221	194	170	151	134	120	107	97	87
	LRFD, φW	610	536	473	421	376	337	303	274	248	225	205	187	171	157	144
	L/360	-	-	-	-	-	-	221	194	170	151	134	120	107	97	87
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	1927	1888	1854	1846	1817	1791	1767	1745	1725	1724	1707	1690	1675	1661	1648
	PAF Base Steel ≥ .25"	1644	1622	1602	1607	1590	1575	1561	1548	1536	1543	1532	1522	1513	1505	1497
	PAF Base Steel ≥ 0.125"	1623	1602	1583	1589	1573	1559	1545	1533	1522	1529	1519	1510	1501	1493	1486
	#12 Screw Base Steel ≥ .0385"	1606	1587	1569	1575	1560	1546	1534	1522	1512	1519	1509	1500	1492	1484	1477
	Concrete + Deck = 34.6 psf (I _{cr} +I _u)/2 = 95.3 in ⁴ /ft					I _{cr} = 68.1 in ⁴ /ft I _u = 122.6 in ⁴ /ft				M _{no} /Ω = 40.9 kip-in/ft φM _{no} = 62.6 kip-in/ft				V _n /Ω = 2.86 kip/ft φ V _n = 5.73 kip/ft		
18	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	507	446	395	352	309	267	232	203	179	158	141	126	113	101	92
	LRFD, φW	683	601	531	472	422	379	342	309	280	255	233	213	195	179	164
	L/360	-	-	-	-	309	267	232	203	179	158	141	126	113	101	92
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2029	1984	1945	1938	1904	1874	1846	1821	1798	1798	1778	1759	1741	1725	1709
	PAF Base Steel ≥ .25"	1702	1676	1654	1662	1642	1624	1608	1593	1579	1589	1576	1565	1554	1544	1535
	PAF Base Steel ≥ 0.125"	1678	1654	1632	1642	1623	1606	1591	1576	1563	1573	1562	1551	1540	1531	1522
	#12 Screw Base Steel ≥ .0385"	1662	1638	1618	1628	1610	1593	1579	1565	1552	1563	1551	1541	1531	1522	1513
	Concrete + Deck = 34.8 psf (I _{cr} +I _u)/2 = 100 in ⁴ /ft					I _{cr} = 74.1 in ⁴ /ft I _u = 126.2 in ⁴ /ft				M _{no} /Ω = 45.5 kip-in/ft φM _{no} = 69.6 kip-in/ft				V _n /Ω = 2.86 kip/ft φ V _n = 5.73 kip/ft		
16	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	620	546	466	396	340	293	255	223	196	174	155	138	124	111	101
	LRFD, φW	837	736	652	581	520	468	423	383	348	318	290	266	245	225	208
	L/360	-	-	466	396	340	293	255	223	196	174	155	138	124	111	101
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2253	2194	2142	2141	2096	2056	2020	1987	1957	1963	1936	1911	1887	1866	1845
	PAF Base Steel ≥ .25"	1831	1797	1767	1786	1759	1735	1714	1694	1676	1693	1676	1661	1647	1633	1621
	PAF Base Steel ≥ 0.125"	1785	1754	1727	1747	1723	1700	1680	1662	1645	1664	1648	1634	1620	1608	1596
	#12 Screw Base Steel ≥ .0385"	1786	1755	1727	1748	1723	1701	1681	1662	1645	1664	1649	1634	1621	1608	1596
	Concrete + Deck = 35.5 psf (I _{cr} +I _u)/2 = 110 in ⁴ /ft					I _{cr} = 86.1 in ⁴ /ft I _u = 133.7 in ⁴ /ft				M _{no} /Ω = 55.2 kip-in/ft φM _{no} = 84.4 kip-in/ft				V _n /Ω = 2.86 kip/ft φ V _n = 5.73 kip/ft		
All Gages	LRFD - Diaphragm Shear, φS_n (plf / ft) for all vertical load spans, WWF Designation or Area of Steel per foot width															
	3/4" Welded Shear Studs	6x6 W1.4xW1.4			6x6 W2.9xW2.9			6x6 W4.0xW4.0			4x4 W4xW4			4x4 W6xW6		
		A _s = 0.028 in ² /ft			A _s = 0.058 in ² /ft			A _s = 0.080 in ² /ft			A _s = 0.120 in ² /ft			A _s = 0.180 in ² /ft		
	12 in o.c.	2720			4070			5060			6860			9560		
	24 in o.c.	2720			4070			5060			6860			7750		
36 in o.c.	2720			4070			5060			5170			5170			

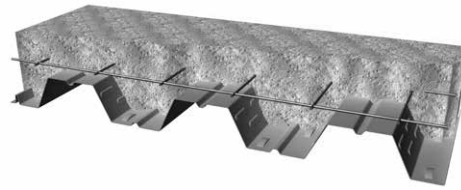
2.4 3WxH-36 Composite Deck

5 1/2" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.235yd³/100ft²

1 Hour Fire Rating



Maximum Unshored Span (in)

Gage	Single	Double	Triple
22	10' - 8"	11' - 7"	11' - 11"
21	11' - 8"	12' - 4"	12' - 9"
20	12' - 2"	13' - 1"	13' - 7"

Gage	Single	Double	Triple
19	12' - 8"	14' - 7"	14' - 10"
18	13' - 1"	15' - 11"	15' - 4"
16	13' - 9"	17' - 2"	16' - 2"

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
22	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	385	338	298	265	236	212	190	172	155	141	128	117	106	97	89
	LRFD, φW	517	453	399	353	314	281	252	226	204	185	167	152	138	125	114
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2035	2010	1987	1978	1959	1942	1926	1912	1899	1895	1884	1874	1864	1855	1846
	PAF Base Steel ≥ .25"	1846	1832	1819	1818	1807	1797	1788	1780	1773	1774	1767	1761	1756	1750	1745
	PAF Base Steel ≥ 0.125"	1831	1818	1806	1806	1795	1786	1778	1770	1763	1765	1758	1753	1747	1742	1737
	#12 Screw Base Steel ≥ .0385"	1817	1805	1793	1794	1784	1776	1768	1761	1754	1756	1750	1744	1739	1735	1730
	Concrete + Deck =	38.4 psf		$I_{cr} = 68.9 \text{ in}^4/\text{ft}$				$M_{no}/\Omega = 35.3 \text{ kip-in/ft}$				$V_n/\Omega = 3.03 \text{ kip/ft}$				
	$(I_{cr}+I_u)/2 = 110 \text{ in}^4/\text{ft}$		$I_u = 150.4 \text{ in}^4/\text{ft}$				$\phi M_{no} = 54.1 \text{ kip-in/ft}$				$\phi V_n = 4.34 \text{ kip/ft}$					

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
21	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	423	371	328	291	260	233	210	190	172	156	142	130	119	109	99
	LRFD, φW	568	498	439	389	347	310	279	251	227	205	186	169	154	141	128
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2100	2070	2044	2035	2013	1993	1975	1959	1944	1940	1927	1915	1904	1893	1884
	PAF Base Steel ≥ .25"	1882	1865	1851	1851	1839	1827	1817	1807	1799	1801	1793	1786	1779	1773	1767
	PAF Base Steel ≥ 0.125"	1865	1850	1836	1837	1825	1814	1805	1796	1787	1790	1783	1776	1770	1764	1758
	#12 Screw Base Steel ≥ .0385"	1851	1836	1823	1825	1813	1803	1794	1785	1778	1781	1774	1767	1761	1756	1751
	Concrete + Deck =	38.7 psf		$I_{cr} = 74.0 \text{ in}^4/\text{ft}$				$M_{no}/\Omega = 38.6 \text{ kip-in/ft}$				$V_n/\Omega = 3.26 \text{ kip/ft}$				
	$(I_{cr}+I_u)/2 = 114 \text{ in}^4/\text{ft}$		$I_u = 153.1 \text{ in}^4/\text{ft}$				$\phi M_{no} = 59.0 \text{ kip-in/ft}$				$\phi V_n = 5.24 \text{ kip/ft}$					

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
20	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	458	402	356	316	283	254	229	207	187	170	155	142	130	119	107
	LRFD, φW	616	540	477	423	377	338	304	274	248	225	204	186	170	155	142
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	119	107
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	458	402	356	316	283	254	229	207	187	170	155	142	130	119	107
	PAF Base Steel ≥ .25"	1909	1891	1874	1876	1862	1849	1838	1828	1818	1821	1813	1805	1797	1790	1784
	PAF Base Steel ≥ 0.125"	1891	1874	1858	1861	1848	1836	1825	1815	1806	1810	1802	1794	1787	1780	1774
	#12 Screw Base Steel ≥ .0385"	1876	1859	1845	1848	1835	1824	1814	1804	1796	1800	1792	1785	1778	1772	1766
	Concrete + Deck =	38.8 psf		$I_{cr} = 78.6 \text{ in}^4/\text{ft}$				$M_{no}/\Omega = 41.6 \text{ kip-in/ft}$				$V_n/\Omega = 3.26 \text{ kip/ft}$				
	$(I_{cr}+I_u)/2 = 117 \text{ in}^4/\text{ft}$		$I_u = 155.6 \text{ in}^4/\text{ft}$				$\phi M_{no} = 63.6 \text{ kip-in/ft}$				$\phi V_n = 6.04 \text{ kip/ft}$					

3WxH-36 Composite Deck 2.4

5 1/2" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.235yd³/100ft²

1 Hour Fire Rating



3WxH PANELS

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
19	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	530	466	412	367	328	295	266	241	219	196	175	156	140	126	114
	LRFD, φW	713	626	554	492	439	394	355	321	291	264	241	220	201	184	169
	L/360	-	-	-	-	-	-	-	-	-	196	175	156	140	126	114
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2251	2213	2178	2170	2141	2115	2091	2069	2049	2048	2031	2014	1999	1985	1972
	PAF Base Steel ≥ .25"	1968	1946	1926	1931	1914	1899	1885	1872	1860	1867	1856	1846	1837	1829	1821
	PAF Base Steel ≥ 0.125"	1947	1926	1907	1913	1897	1883	1869	1857	1846	1853	1843	1834	1825	1817	1810
	#12 Screw Base Steel ≥ .0385"	1930	1911	1893	1899	1884	1870	1858	1846	1836	1843	1833	1824	1816	1808	1801
	Concrete + Deck = 39.2 psf (I _{cr} +I _u)/2 = 124 in ⁴ /ft					I _{cr} = 87.8 in ⁴ /ft I _u = 160.6 in ⁴ /ft				M _{no} /Ω = 47.7 kip-in/ft φM _{no} = 73.0 kip-in/ft			V _n /Ω = 3.26 kip/ft φ V _n = 6.52 kip/ft			
18	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	593	522	462	412	369	332	300	265	233	206	183	164	147	132	119
	LRFD, φW	799	702	621	553	494	444	400	362	329	299	273	250	229	210	193
	L/360	-	-	-	-	-	-	-	265	233	206	183	164	147	132	119
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2353	2309	2269	2262	2228	2198	2170	2145	2122	2122	2102	2083	2065	2049	2033
	PAF Base Steel ≥ .25"	2026	2000	1978	1986	1966	1948	1932	1917	1903	1913	1900	1889	1878	1868	1859
	PAF Base Steel ≥ 0.125"	2002	1978	1956	1966	1947	1930	1915	1900	1887	1897	1886	1875	1864	1855	1846
	#12 Screw Base Steel ≥ .0385"	1986	1962	1942	1952	1934	1917	1903	1889	1876	1887	1875	1865	1855	1846	1837
	Concrete + Deck = 39.4 psf (I _{cr} +I _u)/2 = 130 in ⁴ /ft					I _{cr} = 95.5 in ⁴ /ft I _u = 165.1 in ⁴ /ft				M _{no} /Ω = 53.1 kip-in/ft φM _{no} = 81.2 kip-in/ft			V _n /Ω = 3.26 kip/ft φ V _n = 6.52 kip/ft			
16	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	724	638	566	505	440	380	331	290	255	226	200	179	161	144	131
	LRFD, φW	978	861	763	680	609	548	495	448	408	372	340	312	287	264	244
	L/360	-	-	-	-	440	380	331	290	255	226	200	179	161	144	131
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2577	2518	2466	2465	2420	2381	2344	2311	2281	2287	2260	2235	2211	2190	2169
	PAF Base Steel ≥ .25"	2155	2121	2091	2110	2083	2059	2038	2018	2000	2017	2001	1985	1971	1957	1945
	PAF Base Steel ≥ 0.125"	2109	2078	2051	2071	2047	2025	2004	1986	1969	1988	1972	1958	1944	1932	1920
	#12 Screw Base Steel ≥ .0385"	2110	2079	2051	2072	2047	2025	2005	1986	1969	1988	1973	1958	1945	1932	1921
	Concrete + Deck = 40.1 psf (I _{cr} +I _u)/2 = 143 in ⁴ /ft					I _{cr} = 110.8 in ⁴ /ft I _u = 174.3 in ⁴ /ft				M _{no} /Ω = 64.4 kip-in/ft φM _{no} = 98.5 kip-in/ft			V _n /Ω = 3.26 kip/ft φ V _n = 6.52 kip/ft			
All Gages	LRFD - Diaphragm Shear, φS_n (plf / ft) for all vertical load spans, WWF Designation or Area of Steel per foot width															
	3/4" Welded Shear Studs	6x6 W1.4xW1.4			6x6 W2.9xW2.9			6x6 W4.0xW4.0			4x4 W4xW4			4x4 W6xW6		
		A _s = 0.028 in ² /ft			A _s = 0.058 in ² /ft			A _s = 0.080 in ² /ft			A _s = 0.120 in ² /ft			A _s = 0.180 in ² /ft		
	12 in o.c.	3090			4440			5430			7230			9930		
24 in o.c.	3090			4440			5430			7230			7750			
36 in o.c.	3090			4440			5170			5170			5170			

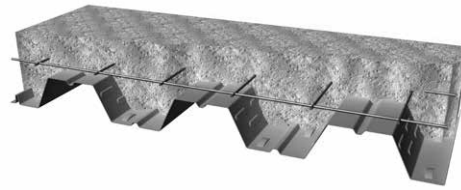
2.4 3WxH-36 Composite Deck

6 1/4" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.466yd³/100ft²

2 Hour Fire Rating



Maximum Unshored Span (in)

Gage	Single	Double	Triple
22	10' - 1"	10' - 11"	11' - 4"
21	11' - 0"	11' - 9"	12' - 1"
20	11' - 9"	12' - 5"	12' - 10"

Gage	Single	Double	Triple
19	12' - 2"	13' - 10"	14' - 3"
18	12' - 7"	15' - 1"	14' - 9"
16	13' - 3"	16' - 6"	15' - 7"

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
22	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	474	416	368	327	291	261	235	212	192	174	159	145	132	121	111
	LRFD, φW	637	558	492	436	388	347	311	280	253	229	208	188	171	156	142
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2522	2496	2473	2464	2445	2428	2412	2398	2385	2381	2370	2360	2350	2341	2332
	PAF Base Steel ≥ .25"	2332	2318	2305	2304	2293	2283	2275	2266	2259	2260	2254	2247	2242	2236	2231
	PAF Base Steel ≥ 0.125"	2317	2304	2292	2292	2281	2272	2264	2256	2249	2251	2244	2239	2233	2228	2224
	#12 Screw Base Steel ≥ .0385"	2304	2291	2280	2280	2270	2262	2254	2247	2240	2242	2236	2231	2225	2221	2216
	Concrete + Deck = 45.3 psf				I _{cr} = 97.0 in ⁴ /ft			M _{no} /Ω = 43.4 kip-in/ft			V _n /Ω = 3.34 kip/ft					
(I _{cr} +I _u)/2 = 158 in ⁴ /ft				I _u = 218.1 in ⁴ /ft			φM _{no} = 66.4 kip-in/ft			φV _n = 4.82 kip/ft						

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
21	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	521	458	404	359	321	288	259	234	213	193	176	161	147	135	124
	LRFD, φW	700	614	542	481	428	384	345	311	281	255	231	210	192	175	160
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2586	2557	2530	2521	2499	2479	2461	2445	2430	2427	2413	2401	2390	2379	2370
	PAF Base Steel ≥ .25"	2368	2352	2337	2337	2325	2313	2303	2293	2285	2287	2279	2272	2265	2259	2253
	PAF Base Steel ≥ 0.125"	2351	2336	2322	2323	2311	2300	2291	2282	2274	2276	2269	2262	2256	2250	2245
	#12 Screw Base Steel ≥ .0385"	2337	2322	2309	2311	2299	2289	2280	2271	2264	2267	2260	2254	2247	2242	2237
	Concrete + Deck = 45.6 psf				I _{cr} = 104.2 in ⁴ /ft			M _{no} /Ω = 47.4 kip-in/ft			V _n /Ω = 3.89 kip/ft					
(I _{cr} +I _u)/2 = 163 in ⁴ /ft				I _u = 221.7 in ⁴ /ft			φM _{no} = 72.5 kip-in/ft			φV _n = 5.71 kip/ft						

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
20	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	564	496	439	390	349	313	282	255	232	211	192	176	161	148	136
	LRFD, φW	759	666	588	522	466	418	376	339	307	279	254	231	211	193	177
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2634	2601	2573	2563	2539	2517	2498	2480	2463	2460	2446	2432	2420	2408	2397
	PAF Base Steel ≥ .25"	2395	2377	2360	2362	2348	2336	2324	2314	2304	2308	2299	2291	2283	2277	2270
	PAF Base Steel ≥ 0.125"	2377	2360	2344	2347	2334	2322	2311	2301	2292	2296	2288	2280	2273	2267	2260
	#12 Screw Base Steel ≥ .0385"	2362	2345	2331	2334	2321	2310	2300	2290	2282	2286	2278	2271	2264	2258	2252
	Concrete + Deck = 45.6 psf				I _{cr} = 110.8 in ⁴ /ft			M _{no} /Ω = 51.1 kip-in/ft			V _n /Ω = 3.89 kip/ft					
(I _{cr} +I _u)/2 = 168 in ⁴ /ft				I _u = 225.1 in ⁴ /ft			φM _{no} = 78.1 kip-in/ft			φV _n = 6.51 kip/ft						

3WxH-36 Composite Deck 2.4

6 1/4" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.466yd³/100ft²

2 Hour Fire Rating



3WxH PANELS

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
19	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	653	574	509	453	405	365	329	298	271	247	226	207	190	175	161
	LRFD, φW	880	773	684	608	543	488	439	397	360	328	299	273	250	229	211
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2737	2699	2664	2656	2627	2601	2577	2555	2536	2534	2517	2501	2485	2471	2458
	PAF Base Steel ≥ .25"	2454	2432	2412	2417	2400	2385	2371	2358	2347	2353	2342	2333	2323	2315	2307
	PAF Base Steel ≥ 0.125"	2433	2412	2393	2399	2383	2369	2356	2344	2333	2339	2329	2320	2311	2303	2296
	#12 Screw Base Steel ≥ .0385"	2417	2397	2379	2386	2370	2356	2344	2332	2322	2329	2319	2310	2302	2294	2287
	Concrete + Deck = 46.1 psf (I _{cr} +I _u)/2 = 178 in ⁴ /ft					I _{cr} = 123.8 in ⁴ /ft I _u = 231.9 in ⁴ /ft				M _{no} /Ω = 58.7 kip-in/ft φM _{no} = 89.8 kip-in/ft				V _n /Ω = 3.89 kip/ft φ V _n = 7.79 kip/ft		

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
18	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	732	644	571	509	456	410	371	336	306	279	256	234	210	189	171
	LRFD, φW	987	868	768	684	612	549	496	449	408	371	339	310	285	262	241
	L/360	-	-	-	-	-	-	-	-	-	-	-	234	210	189	171
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	2840	2795	2755	2748	2714	2684	2656	2631	2608	2608	2588	2569	2551	2535	2519
	PAF Base Steel ≥ .25"	2512	2487	2464	2472	2452	2434	2418	2403	2389	2399	2386	2375	2364	2354	2345
	PAF Base Steel ≥ 0.125"	2488	2464	2443	2452	2433	2416	2401	2387	2374	2384	2372	2361	2351	2341	2332
	#12 Screw Base Steel ≥ .0385"	2472	2449	2428	2438	2420	2404	2389	2375	2363	2373	2362	2351	2341	2332	2323
	Concrete + Deck = 46.3 psf (I _{cr} +I _u)/2 = 186 in ⁴ /ft					I _{cr} = 134.8 in ⁴ /ft I _u = 238.1 in ⁴ /ft				M _{no} /Ω = 65.4 kip-in/ft φM _{no} = 100.1 kip-in/ft				V _n /Ω = 3.89 kip/ft φ V _n = 7.79 kip/ft		

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
16	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	895	789	700	624	560	505	457	413	364	322	286	256	229	206	186
	LRFD, φW	1209	1064	943	841	753	678	613	556	506	462	423	388	357	329	303
	L/360	-	-	-	-	-	-	-	413	364	322	286	256	229	206	186
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3063	3004	2952	2951	2907	2867	2830	2797	2767	2773	2746	2721	2697	2676	2655
	PAF Base Steel ≥ .25"	2641	2607	2577	2596	2569	2545	2524	2504	2486	2503	2487	2471	2457	2443	2431
	PAF Base Steel ≥ 0.125"	2595	2564	2537	2557	2533	2511	2490	2472	2455	2474	2458	2444	2430	2418	2406
	#12 Screw Base Steel ≥ .0385"	2596	2565	2537	2558	2533	2511	2491	2472	2456	2474	2459	2444	2431	2418	2407
	Concrete + Deck = 47.0 psf (I _{cr} +I _u)/2 = 204 in ⁴ /ft					I _{cr} = 156.5 in ⁴ /ft I _u = 250.6 in ⁴ /ft				M _{no} /Ω = 79.4 kip-in/ft φM _{no} = 121.4 kip-in/ft				V _n /Ω = 3.89 kip/ft φ V _n = 7.79 kip/ft		

All Gages	LRFD - Diaphragm Shear, φS_n (plf / ft) for all vertical load spans, WWF Designation or Area of Steel per foot width																
		6x6 W1.4xW1.4				6x6 W2.9xW2.9				6x6 W4.0xW4.0				4x4 W4xW4		4x4 W6xW6	
	3/4" Welded Shear Studs	A _s = 0.028 in ² /ft				A _s = 0.058 in ² /ft				A _s = 0.080 in ² /ft				A _s = 0.120 in ² /ft		A _s = 0.180 in ² /ft	
	12 in o.c.	n/a				4990				5980				7780		10480	
	24 in o.c.	n/a				4990				5980				7750		7750	
36 in o.c.	n/a				4990				5170				5170		5170		

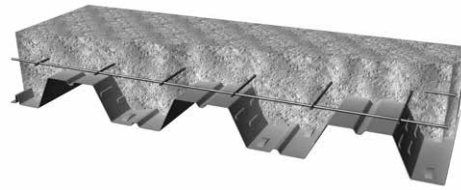
2.4 3WxH-36 Composite Deck

7 1/4" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.77yd³/100ft²

2 Hour Fire Rating



Maximum Unshored Span (in)

Gage	Single	Double	Triple
22	9' - 5"	10' - 3"	10' - 7"
21	10' - 3"	11' - 0"	11' - 4"
20	11' - 0"	11' - 8"	12' - 1"

Gage	Single	Double	Triple
19	11' - 8"	13' - 0"	13' - 5"
18	12' - 1"	14' - 2"	14' - 1"
16	12' - 9"	15' - 10"	14' - 11"

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
22	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	601	528	467	415	370	332	299	270	245	222	202	185	169	155	142
	LRFD, φW	808	708	625	554	494	442	397	357	323	292	265	241	220	200	183
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3170	3144	3121	3112	3093	3076	3060	3046	3033	3030	3018	3008	2998	2989	2981
	PAF Base Steel ≥ .25"	2980	2966	2953	2952	2941	2932	2923	2915	2907	2908	2902	2896	2890	2884	2880
	PAF Base Steel ≥ 0.125"	2965	2952	2940	2940	2930	2920	2912	2904	2897	2899	2893	2887	2881	2876	2872
	#12 Screw Base Steel ≥ .0385"	2952	2939	2928	2928	2919	2910	2902	2895	2888	2890	2884	2879	2874	2869	2864
	Concrete + Deck = 54.5 psf (I _{cr} +I _u)/2 = 241 in ⁴ /ft			I _{cr} = 144.0 in ⁴ /ft I _u = 337.7 in ⁴ /ft		M _{no} /Ω = 54.8 kip-in/ft φM _{no} = 83.8 kip-in/ft		V _n /Ω = 3.80 kip/ft φV _n = 5.50 kip/ft								

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
21	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	661	580	513	456	408	366	330	298	271	246	225	205	188	173	159
	LRFD, φW	888	780	688	611	545	488	439	396	358	325	296	269	246	225	206
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3234	3205	3178	3169	3147	3127	3109	3093	3078	3075	3061	3049	3038	3028	3018
	PAF Base Steel ≥ .25"	3016	3000	2985	2985	2973	2961	2951	2941	2933	2935	2927	2920	2914	2907	2902
	PAF Base Steel ≥ 0.125"	3000	2984	2970	2971	2959	2949	2939	2930	2922	2925	2917	2910	2904	2898	2893
	#12 Screw Base Steel ≥ .0385"	2985	2970	2957	2959	2948	2937	2928	2920	2912	2915	2908	2902	2896	2890	2885
	Concrete + Deck = 54.7 psf (I _{cr} +I _u)/2 = 249 in ⁴ /ft			I _{cr} = 154.8 in ⁴ /ft I _u = 342.9 in ⁴ /ft		M _{no} /Ω = 59.9 kip-in/ft φM _{no} = 91.6 kip-in/ft		V _n /Ω = 4.46 kip/ft φV _n = 6.40 kip/ft								

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
20	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	716	629	557	496	443	398	359	325	295	269	246	225	206	189	174
	LRFD, φW	964	846	748	664	593	532	479	432	392	356	324	296	270	248	227
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3282	3249	3221	3211	3187	3165	3146	3128	3111	3108	3094	3080	3068	3056	3046
	PAF Base Steel ≥ .25"	3043	3025	3009	3010	2996	2984	2972	2962	2952	2956	2947	2939	2932	2925	2918
	PAF Base Steel ≥ 0.125"	3025	3008	2992	2995	2982	2970	2959	2949	2940	2944	2936	2928	2921	2915	2909
	#12 Screw Base Steel ≥ .0385"	3010	2993	2979	2982	2969	2958	2948	2938	2930	2934	2926	2919	2912	2906	2900
	Concrete + Deck = 54.8 psf (I _{cr} +I _u)/2 = 256 in ⁴ /ft			I _{cr} = 164.7 in ⁴ /ft I _u = 347.7 in ⁴ /ft		M _{no} /Ω = 64.6 kip-in/ft φM _{no} = 98.8 kip-in/ft		V _n /Ω = 4.81 kip/ft φV _n = 7.20 kip/ft								

3WxH-36 Composite Deck 2.4

7 1/4" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.77yd³/100ft²

2 Hour Fire Rating



3WxH PANELS

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
19	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	829	730	647	576	516	464	419	380	346	315	288	264	243	224	206
	LRFD, φW	1118	983	870	774	692	621	560	507	460	419	382	350	320	294	271
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3385	3347	3312	3304	3275	3249	3225	3204	3184	3182	3165	3149	3134	3120	3106
	PAF Base Steel ≥ .25"	3102	3080	3060	3065	3048	3033	3019	3006	2995	3001	2990	2981	2972	2963	2955
	PAF Base Steel ≥ 0.125"	3081	3060	3042	3047	3031	3017	3004	2992	2981	2987	2977	2968	2960	2952	2944
	#12 Screw Base Steel ≥ .0385"	3065	3045	3027	3034	3018	3004	2992	2980	2970	2977	2967	2959	2950	2943	2935
	Concrete + Deck = 55.3 psf					I _{cr} = 184.4 in ⁴ /ft					M _{no} /Ω = 74.3 kip-in/ft				V _n /Ω = 4.81 kip/ft	
(I _{cr} +I _u)/2 = 271 in ⁴ /ft					I _u = 357.6 in ⁴ /ft					φM _{no} = 113.7 kip-in/ft				φ V _n = 8.65 kip/ft		
18	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	931	820	727	648	581	523	473	429	391	357	327	300	276	254	235
	LRFD, φW	1256	1105	979	871	780	701	633	574	521	475	434	398	365	336	310
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3488	3443	3403	3396	3362	3332	3304	3279	3256	3256	3236	3217	3199	3183	3168
	PAF Base Steel ≥ .25"	3160	3135	3112	3120	3100	3082	3066	3051	3038	3047	3035	3023	3012	3002	2993
	PAF Base Steel ≥ 0.125"	3137	3112	3091	3100	3081	3064	3049	3035	3022	3032	3020	3009	2999	2989	2980
	#12 Screw Base Steel ≥ .0385"	3120	3097	3076	3086	3068	3052	3037	3023	3011	3021	3010	2999	2989	2980	2971
	Concrete + Deck = 55.5 psf					I _{cr} = 201.1 in ⁴ /ft					M _{no} /Ω = 83.0 kip-in/ft				V _n /Ω = 4.81 kip/ft	
(I _{cr} +I _u)/2 = 284 in ⁴ /ft					I _u = 366.6 in ⁴ /ft					φM _{no} = 127.0 kip-in/ft				φ V _n = 9.61 kip/ft		
16	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	1141	1006	893	797	715	645	584	530	484	442	406	373	344	314	283
	LRFD, φW	1542	1358	1204	1074	962	867	784	711	648	592	542	498	458	422	390
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	314	283
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3711	3652	3600	3599	3555	3515	3478	3445	3415	3421	3394	3369	3346	3324	3304
	PAF Base Steel ≥ .25"	3289	3256	3226	3244	3217	3194	3172	3152	3134	3151	3135	3119	3105	3091	3079
	PAF Base Steel ≥ 0.125"	3243	3212	3185	3205	3181	3159	3139	3120	3103	3122	3107	3092	3079	3066	3054
	#12 Screw Base Steel ≥ .0385"	3244	3213	3185	3206	3181	3159	3139	3121	3104	3122	3107	3092	3079	3066	3055
	Concrete + Deck = 56.1 psf					I _{cr} = 234.0 in ⁴ /ft					M _{no} /Ω = 101.0 kip-in/ft				V _n /Ω = 4.81 kip/ft	
(I _{cr} +I _u)/2 = 309 in ⁴ /ft					I _u = 384.7 in ⁴ /ft					φM _{no} = 154.5 kip-in/ft				φ V _n = 9.61 kip/ft		
All Gages	LRFD - Diaphragm Shear, φS_n (plf / ft) for all vertical load spans, WWF Designation or Area of Steel per foot width															
	3/4" Welded Shear Studs	6x6 W1.4xW1.4			6x6 W2.9xW2.9			6x6 W4.0xW4.0			4x4 W4xW4			4x4 W6xW6		
		A _s = 0.028 in ² /ft			A _s = 0.058 in ² /ft			A _s = 0.080 in ² /ft			A _s = 0.120 in ² /ft			A _s = 0.180 in ² /ft		
	12 in o.c.	n/a			5730			6720			8520			11220		
	24 in o.c.	n/a			5730			6720			7750			7750		
36 in o.c.	n/a			5170			5170			5170			5170			

2.4 3WxH-36 Composite Deck

7 3/16" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.755yd³/100ft²

3 Hour Fire Rating



Maximum Unshored Span (in)

Gage	Single	Double	Triple
22	9' - 5"	10' - 4"	10' - 8"
21	10' - 3"	11' - 0"	11' - 5"
20	11' - 1"	11' - 9"	12' - 1"

Gage	Single	Double	Triple
19	11' - 9"	13' - 1"	13' - 6"
18	12' - 1"	14' - 3"	14' - 2"
16	12' - 9"	15' - 10"	14' - 11"

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
22	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	593	521	460	409	365	327	295	266	241	219	200	182	166	152	140
	LRFD, φW	797	699	616	546	487	436	391	352	318	288	262	238	217	198	180
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3129	3104	3081	3071	3052	3035	3020	3006	2993	2989	2978	2967	2958	2949	2940
	PAF Base Steel ≥ .25"	2940	2925	2913	2912	2901	2891	2882	2874	2867	2868	2861	2855	2849	2844	2839
	PAF Base Steel ≥ 0.125"	2925	2911	2899	2899	2889	2880	2871	2864	2857	2858	2852	2846	2841	2836	2831
	#12 Screw Base Steel ≥ .0385"	2911	2898	2887	2888	2878	2869	2861	2854	2848	2850	2844	2838	2833	2828	2824
	Concrete + Deck = 53.9 psf				$I_{cr} = 140.7 \text{ in}^4/\text{ft}$			$M_{no}/\Omega = 54.1 \text{ kip-in/ft}$			$V_n/\Omega = 3.77 \text{ kip/ft}$					
$(I_{cr} + I_u)/2 = 235 \text{ in}^4/\text{ft}$				$I_u = 329.1 \text{ in}^4/\text{ft}$			$\phi M_{no} = 82.7 \text{ kip-in/ft}$			$\phi V_n = 5.46 \text{ kip/ft}$						

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
21	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	652	573	506	450	402	361	326	294	267	243	222	202	185	170	156
	LRFD, φW	876	769	679	603	538	481	433	391	353	321	292	266	242	222	203
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3194	3164	3138	3128	3106	3087	3069	3052	3037	3034	3021	3009	2998	2987	2977
	PAF Base Steel ≥ .25"	2976	2959	2944	2945	2932	2921	2910	2901	2892	2895	2887	2880	2873	2867	2861
	PAF Base Steel ≥ 0.125"	2959	2943	2929	2931	2919	2908	2898	2889	2881	2884	2877	2870	2864	2858	2852
	#12 Screw Base Steel ≥ .0385"	2944	2930	2916	2918	2907	2897	2888	2879	2871	2875	2868	2861	2855	2849	2844
	Concrete + Deck = 54.2 psf				$I_{cr} = 151.3 \text{ in}^4/\text{ft}$			$M_{no}/\Omega = 59.1 \text{ kip-in/ft}$			$V_n/\Omega = 4.43 \text{ kip/ft}$					
$(I_{cr} + I_u)/2 = 243 \text{ in}^4/\text{ft}$				$I_u = 334.2 \text{ in}^4/\text{ft}$			$\phi M_{no} = 90.4 \text{ kip-in/ft}$			$\phi V_n = 6.35 \text{ kip/ft}$						

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
20	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	706	621	549	489	437	393	354	321	291	265	242	222	203	187	172
	LRFD, φW	951	835	737	655	585	525	472	426	386	351	320	292	267	244	224
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3241	3209	3180	3171	3147	3125	3105	3087	3071	3068	3053	3040	3027	3016	3005
	PAF Base Steel ≥ .25"	3003	2984	2968	2970	2956	2943	2932	2921	2912	2915	2906	2899	2891	2884	2878
	PAF Base Steel ≥ 0.125"	2985	2967	2952	2954	2941	2929	2918	2909	2899	2904	2895	2888	2881	2874	2868
	#12 Screw Base Steel ≥ .0385"	2969	2953	2938	2942	2929	2918	2907	2898	2889	2894	2886	2879	2872	2866	2860
	Concrete + Deck = 54.2 psf				$I_{cr} = 161.0 \text{ in}^4/\text{ft}$			$M_{no}/\Omega = 63.7 \text{ kip-in/ft}$			$V_n/\Omega = 4.75 \text{ kip/ft}$					
$(I_{cr} + I_u)/2 = 250 \text{ in}^4/\text{ft}$				$I_u = 338.9 \text{ in}^4/\text{ft}$			$\phi M_{no} = 97.5 \text{ kip-in/ft}$			$\phi V_n = 7.15 \text{ kip/ft}$						

3WxH-36 Composite Deck 2.4

7 3/16" Total Slab Depth

Light Weight Concrete (110 pcf)

Concrete Volume 1.755yd³/100ft²

3 Hour Fire Rating



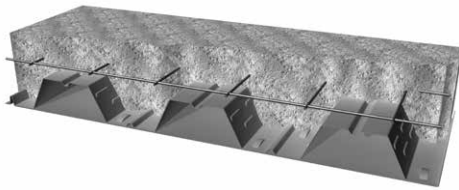
3WxH PANELS

GA	Vertical Load Span (in)	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"
19	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	818	720	638	568	509	458	413	375	341	311	284	261	240	220	203
	LRFD, φW	1103	969	858	763	682	613	552	500	454	413	377	345	316	290	267
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3345	3306	3272	3263	3234	3208	3185	3163	3143	3142	3124	3108	3093	3079	3066
	PAF Base Steel ≥ .25"	3061	3039	3020	3025	3008	2992	2978	2966	2954	2960	2950	2940	2931	2923	2915
	PAF Base Steel ≥ 0.125"	3040	3020	3001	3007	2991	2976	2963	2951	2940	2947	2937	2928	2919	2911	2904
	#12 Screw Base Steel ≥ .0385"	3024	3004	2987	2993	2978	2964	2951	2940	2929	2937	2927	2918	2910	2902	2895
	Concrete + Deck = 54.7 psf (I _{cr} +I _u)/2 = 264 in ⁴ /ft					I _{cr} = 180.1 in ⁴ /ft I _u = 348.7 in ⁴ /ft				M _{no} /Ω = 73.3 kip-in/ft φM _{no} = 112.2 kip-in/ft				V _n /Ω = 4.75 kip/ft φ V _n = 8.61 kip/ft		
18	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	918	809	717	639	573	516	466	423	385	352	322	296	272	251	232
	LRFD, φW	1239	1090	965	859	769	692	624	566	514	469	428	392	360	331	305
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3447	3402	3362	3355	3322	3291	3264	3238	3215	3216	3195	3176	3159	3142	3127
	PAF Base Steel ≥ .25"	3120	3094	3071	3080	3060	3042	3026	3011	2997	3006	2994	2982	2972	2962	2953
	PAF Base Steel ≥ 0.125"	3096	3072	3050	3060	3041	3024	3008	2994	2981	2991	2979	2968	2958	2949	2940
	#12 Screw Base Steel ≥ .0385"	3079	3056	3035	3046	3028	3011	2996	2983	2970	2981	2969	2959	2949	2940	2931
	Concrete + Deck = 54.9 psf (I _{cr} +I _u)/2 = 277 in ⁴ /ft					I _{cr} = 196.5 in ⁴ /ft I _u = 357.4 in ⁴ /ft				M _{no} /Ω = 81.9 kip-in/ft φM _{no} = 125.3 kip-in/ft				V _n /Ω = 4.75 kip/ft φ V _n = 9.49 kip/ft		
16	ASD & LRFD - Superimposed Load, W (psf)															
	ASD, W/Ω	1125	992	880	786	705	636	575	523	477	436	400	368	339	306	276
	LRFD, φW	1520	1339	1187	1059	949	854	773	701	639	583	534	491	451	416	385
	L/360	-	-	-	-	-	-	-	-	-	-	-	-	-	306	276
	LRFD - Diaphragm Shear, φS_n (plf / ft) 36/4 Attachment Pattern															
	Arc Spot Weld 1/2" Effective Dia	3670	3612	3560	3558	3514	3474	3438	3405	3374	3381	3354	3328	3305	3283	3263
	PAF Base Steel ≥ .25"	3249	3215	3185	3203	3177	3153	3131	3112	3093	3111	3094	3079	3064	3051	3038
	PAF Base Steel ≥ 0.125"	3203	3172	3144	3165	3140	3118	3098	3080	3063	3082	3066	3052	3038	3026	3014
	#12 Screw Base Steel ≥ .0385"	3204	3172	3145	3165	3141	3119	3098	3080	3063	3082	3066	3052	3038	3026	3014
	Concrete + Deck = 55.6 psf (I _{cr} +I _u)/2 = 302 in ⁴ /ft					I _{cr} = 228.6 in ⁴ /ft I _u = 375.1 in ⁴ /ft				M _{no} /Ω = 99.6 kip-in/ft φM _{no} = 152.3 kip-in/ft				V _n /Ω = 4.75 kip/ft φ V _n = 9.49 kip/ft		
All Gages	LRFD - Diaphragm Shear, φS_n (plf / ft) for all vertical load spans, WWF Designation or Area of Steel per foot width															
	3/4" Welded Shear Studs	6x6 W1.4xW1.4			6x6 W2.9xW2.9			6x6 W4.0xW4.0			4x4 W4xW4			4x4 W6xW6		
		A _s = 0.028 in ² /ft			A _s = 0.058 in ² /ft			A _s = 0.080 in ² /ft			A _s = 0.120 in ² /ft			A _s = 0.180 in ² /ft		
	12 in o.c.	n/a			5680			6670			8470			11170		
	24 in o.c.	n/a			5680			6670			7750			7750		
36 in o.c.	n/a			5170			5170			5170			5170			

3WxHF-36 Cellular Composite Deck 2.3

Light Weight Concrete (110 pcf)

Maximum Unshored Spans



3WxH PANELS

3WxHF-36 Cellular Shoring Table

Total Slab Depth (in)	110 pcf Light Weight Concrete					
	Volume cy/100sf	Gage	Slab and Deck psf	Maximum Unshored Span		
				Single	Double	Triple
5	1.080	20/20	35.7	13' - 1"	14' - 8"	13' - 10"
		20/18	36.2	13' - 2"	15' - 1"	13' - 11"
		20/16	36.7	13' - 7"	15' - 5"	14' - 3"
		18/20	36.4	14' - 9"	16' - 9"	13' - 4"
		18/18	36.8	15' - 1"	17' - 2"	13' - 4"
		18/16	37.4	15' - 4"	17' - 7"	13' - 4"
		16/20	37.0	15' - 10"	19' - 1"	13' - 4"
		16/18	37.5	15' - 6"	18' - 7"	13' - 4"
		16/16	38.0	15' - 11"	19' - 4"	13' - 4"
5½ 1 Hour Fire Rating	1.235	20/20	40.3	12' - 7"	14' - 2"	13' - 4"
		20/18	40.8	12' - 7"	14' - 6"	13' - 4"
		20/16	41.3	13' - 0"	14' - 10"	13' - 4"
		18/20	40.9	14' - 5"	16' - 2"	13' - 4"
		18/18	41.4	14' - 8"	16' - 7"	13' - 4"
		18/16	41.9	14' - 11"	16' - 11"	13' - 4"
		16/20	41.6	15' - 4"	18' - 6"	13' - 4"
		16/18	42.1	15' - 1"	18' - 1"	13' - 4"
16/16	42.6	15' - 6"	18' - 8"	13' - 4"		
6	1.389	20/20	44.9	12' - 1"	13' - 8"	12' - 11"
		20/18	45.4	12' - 2"	14' - 0"	13' - 0"
		20/16	45.9	12' - 6"	14' - 4"	13' - 3"
		18/20	45.5	14' - 0"	15' - 8"	13' - 4"
		18/18	46.0	14' - 4"	16' - 0"	13' - 4"
		18/16	46.5	14' - 6"	16' - 4"	13' - 4"
		16/20	46.2	15' - 0"	17' - 10"	13' - 4"
		16/18	46.7	14' - 9"	17' - 6"	13' - 4"
16/16	47.2	15' - 1"	18' - 0"	13' - 4"		
6¼ 2 Hour Fire Rating	1.466	20/20	47.2	11' - 10"	13' - 5"	12' - 8"
		20/18	47.6	11' - 11"	13' - 9"	12' - 9"
		20/16	48.2	12' - 3"	14' - 1"	13' - 1"
		18/20	47.8	13' - 11"	15' - 5"	13' - 4"
		18/18	48.3	14' - 2"	15' - 9"	13' - 4"
		18/16	48.8	14' - 4"	16' - 1"	13' - 4"
		16/20	48.5	14' - 10"	17' - 6"	13' - 4"
		16/18	49.0	14' - 7"	17' - 2"	13' - 4"
16/16	49.5	14' - 11"	17' - 9"	13' - 4"		
7⅙ 3 Hour Fire Rating	1.755	20/20	55.8	11' - 1"	12' - 8"	12' - 0"
		20/18	56.2	11' - 2"	13' - 0"	12' - 1"
		20/16	56.8	11' - 6"	13' - 4"	12' - 4"
		18/20	56.4	13' - 4"	14' - 6"	13' - 4"
		18/18	56.9	13' - 7"	14' - 10"	13' - 4"
		18/16	57.4	13' - 10"	15' - 2"	13' - 4"
		16/20	57.1	14' - 3"	16' - 7"	13' - 4"
		16/18	57.6	14' - 0"	16' - 3"	13' - 4"
16/16	58.1	14' - 4"	16' - 9"	13' - 4"		

Shaded area the span is governed by maximum deck panel length of 40 feet; 20 feet for double span, 13 feet 4 inches for triple span.