仅供参考

表x-x 工况一挠度原始数据处理表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 测点号 | 初始读数 | 满载 | 退载 | 总挠度 | 弹性挠度 | 残余变形 |
| Z1 | 8.74 | 9.18 | 0.44 | 0.44 | 0.44 | 0.00 |
| Z2 | 1.29 | 1.80 | 0.51 | 0.51 | 0.51 | 0.00 |
| Z3 | 8.04 | 8.74 | 0.70 | 0.70 | 0.70 | 0.00 |
| Z4 | 2.23 | 3.00 | 0.77 | 0.77 | 0.77 | 0.00 |
| Z5 | 4.05 | 5.02 | 0.97 | 0.97 | 0.97 | 0.00 |
| Z6 | 6.32 | 7.60 | 1.28 | 1.28 | 1.28 | 0.00 |
| Z7 | 7.98 | 9.62 | 1.64 | 1.64 | 1.64 | 0.00 |
| Z8 | 14.28 | 16.31 | 2.03 | 2.03 | 2.03 | 0.00 |
| Z9 | 12.58 | 15.08 | 2.50 | 2.50 | 2.50 | 0.00 |
| Z10 | 6.85 | 9.65 | 2.80 | 2.80 | 2.80 | 0.00 |
| Z11 | 11.92 | 15.21 | 3.29 | 3.29 | 3.28 | 0.01 |
| Z12 | 16.90 | 20.00 | 3.10 | 3.10 | 3.10 | 0.00 |
| Z13 | 12.43 | 15.34 | 2.91 | 2.91 | 2.77 | 0.14 |
| Z14 | 13.65 | 16.52 | 2.87 | 2.87 | 2.80 | 0.07 |

表x-x 工况一挠度检测结果汇总表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 测点号 | 总变形 | 弹性变形 | 残余变形 | 满载理论值(mm) | 校验系数 | 相对残余变形(%) |
| Z1 | 0.44 | 0.44 | 0.00 | 0.47 | 0.93 | 0.00% |
| Z2 | 0.51 | 0.51 | 0.00 | 0.83 | 0.62 | 0.00% |
| Z3 | 0.70 | 0.70 | 0.00 | 1.25 | 0.56 | 0.00% |
| Z4 | 0.77 | 0.77 | 0.00 | 1.74 | 0.44 | 0.00% |
| Z5 | 0.97 | 0.97 | 0.00 | 2.34 | 0.41 | 0.00% |
| Z6 | 1.28 | 1.28 | 0.00 | 3.08 | 0.42 | 0.00% |
| Z7 | 1.64 | 1.64 | 0.00 | 4.01 | 0.41 | 0.00% |
| Z8 | 2.03 | 2.03 | 0.00 | 5.16 | 0.39 | 0.00% |
| Z9 | 2.50 | 2.50 | 0.00 | 5.95 | 0.42 | 0.00% |
| Z10 | 2.80 | 2.80 | 0.00 | 6.74 | 0.42 | 0.00% |
| Z11 | 3.29 | 3.28 | 0.01 | 7.05 | 0.47 | 0.30% |
| Z12 | 3.10 | 3.10 | 0.00 | 7.27 | 0.43 | 0.00% |
| Z13 | 2.91 | 2.77 | 0.14 | 6.79 | 0.41 | 4.81% |
| Z14 | 2.87 | 2.80 | 0.07 | 6.70 | 0.42 | 2.44% |

表x-x 工况一应变原始数据处理表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 测点号 | 模数R | 温度T | 模数R | 温度T | 模数R | 温度T | ΔR | ΔT | ΔR | ΔT | 总应变 | 弹性应变 | 残余应变 |
| 1# | 650.9 | 23.3 | 653.5 | 23.0 | 651.5 | 23.0 | 2.6 | -0.3 | 0.6 | -0.3 | 9.3 | 7.5 | 1.7 |
| 2# | 651.9 | 23.4 | 653.7 | 23.2 | 652.3 | 23.1 | 1.8 | -0.2 | 0.4 | -0.3 | 6.4 | 5.5 | 1.0 |
| 3# | 629.4 | 23.3 | 632.3 | 23.1 | 630.0 | 23.0 | 2.9 | -0.2 | 0.6 | -0.3 | 10.6 | 8.9 | 1.7 |
| 4# | 470.0 | 23.3 | 470.8 | 23.1 | 468.1 | 23.0 | 0.8 | -0.2 | -1.9 | -0.3 | 2.7 | 2.7 | 0.0 |
| 5# | 671.1 | 23.3 | 675.2 | 23.1 | 669.9 | 22.9 | 4.1 | -0.2 | -1.2 | -0.4 | 15.1 | 15.1 | 0.0 |
| 6# | 692.9 | 23.3 | 697.4 | 23.1 | 693.3 | 23.0 | 4.5 | -0.2 | 0.4 | -0.3 | 16.6 | 15.7 | 1.0 |
| 7# | 355.0 | 23.3 | 356.2 | 23.1 | 354.8 | 23.0 | 1.2 | -0.2 | -0.2 | -0.3 | 4.2 | 4.2 | 0.0 |
| 8# | 732.4 | 23.2 | 738.8 | 23.1 | 732.5 | 23.0 | 6.4 | -0.1 | 0.1 | -0.2 | 24.0 | 24.0 | 0.0 |
| 9# | 669.0 | 23.2 | 676.8 | 23.1 | 669.2 | 23.0 | 7.8 | -0.1 | 0.2 | -0.2 | 29.3 | 28.9 | 0.4 |
| 10# | 799.1 | 23.3 | 801.8 | 23.1 | 798.9 | 23.1 | 2.7 | -0.2 | -0.2 | -0.2 | 9.8 | 9.8 | 0.0 |
| 11# | 675.9 | 23.2 | 686.5 | 23.1 | 675.8 | 23.0 | 10.6 | -0.1 | -0.1 | -0.2 | 39.8 | 39.8 | 0.0 |
| 12# | 580.0 | 23.3 | 591.5 | 23.2 | 580.4 | 23.1 | 11.5 | -0.1 | 0.4 | -0.2 | 43.2 | 42.1 | 1.1 |
| 13# | 710.2 | 23.2 | 719.3 | 23.0 | 710.4 | 22.9 | 9.1 | -0.2 | 0.2 | -0.3 | 34.0 | 33.8 | 0.2 |
| 14# | 594.7 | 23.3 | 605.5 | 23.2 | 594.3 | 23.1 | 10.8 | -0.1 | -0.4 | -0.2 | 40.6 | 40.6 | 0.0 |

表x-x 工况一应变检测结果汇总表

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 测点号 | 总应变 | 弹性应变 | 残余应变 | 满载应力理论值（MPa） | 满载理论值(με) | 校验系数 | 相对残余应变(%) |
| 1# | 9.3 | 7.5 | 1.7 | 0.3 | 8.7 | 0.9 | 18.60% |
| 2# | 6.4 | 5.5 | 1.0 | 0.4 | 11.6 | 0.5 | 15.07% |
| 3# | 10.6 | 8.9 | 1.7 | 0.6 | 17.4 | 0.5 | 16.29% |
| 4# | 2.7 | 2.7 | 0.0 | 0.8 | 23.2 | 0.1 | 0.00% |
| 5# | 15.1 | 15.1 | 0.0 | 1.0 | 29.0 | 0.5 | 0.00% |
| 6# | 16.6 | 15.7 | 1.0 | 1.4 | 40.6 | 0.4 | 5.83% |
| 7# | 4.2 | 4.2 | 0.0 | 1.9 | 55.1 | 0.1 | 0.00% |
| 8# | 24.0 | 24.0 | 0.0 | 2.9 | 84.1 | 0.3 | 0.07% |
| 9# | 29.3 | 28.9 | 0.4 | 3.2 | 92.8 | 0.3 | 1.35% |
| 10# | 9.8 | 9.8 | 0.0 | 3.6 | 104.3 | 0.1 | 0.00% |
| 11# | 39.8 | 39.8 | 0.0 | 3.5 | 101.4 | 0.4 | 0.00% |
| 12# | 43.2 | 42.1 | 1.1 | 3.6 | 104.3 | 0.4 | 2.66% |
| 13# | 34.0 | 33.8 | 0.2 | 3.1 | 89.9 | 0.4 | 0.63% |
| 14# | 40.6 | 40.6 | 0.0 | 2.9 | 84.1 | 0.5 | 0.00% |

表x-x 工况二挠度原始数据处理表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 测点号 | 初始读数 | 满载 | 退载 | 总挠度 | 弹性挠度 | 残余变形 |
| Z1 | 8.74 | 11.47 | 2.73 | 2.73 | 2.73 | 0.00 |
| Z2 | 1.29 | 4.19 | 2.90 | 2.90 | 2.90 | 0.00 |
| Z3 | 8.04 | 11.15 | 3.11 | 3.11 | 3.11 | 0.00 |
| Z4 | 2.23 | 5.35 | 3.12 | 3.12 | 3.10 | 0.02 |
| Z5 | 4.05 | 6.97 | 2.92 | 2.92 | 2.92 | 0.00 |
| Z6 | 6.32 | 8.71 | 2.39 | 2.39 | 2.39 | 0.00 |
| Z7 | 7.98 | 10.17 | 2.19 | 2.19 | 2.19 | 0.00 |
| Z8 | 14.28 | 15.97 | 1.69 | 1.69 | 1.69 | 0.00 |
| Z9 | 12.58 | 13.91 | 1.33 | 1.33 | 1.33 | 0.00 |
| Z10 | 6.85 | 7.72 | 0.87 | 0.87 | 0.87 | 0.00 |
| Z11 | 11.92 | 12.73 | 0.81 | 0.81 | 0.81 | 0.00 |
| Z12 | 16.90 | 17.41 | 0.51 | 0.51 | 0.51 | 0.00 |
| Z13 | 12.43 | 12.84 | 0.41 | 0.41 | 0.34 | 0.07 |
| Z14 | 13.65 | 14.18 | 0.53 | 0.53 | 0.50 | 0.03 |

表x-x 工况二挠度检测结果汇总表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 测点号 | 总变形 | 弹性变形 | 残余变形 | 满载理论值(mm) | 校验系数 | 相对残余变形(%) |
| Z1 | 2.73 | 2.73 | 0.00 | 6.63 | 0.41 | 0.00% |
| Z2 | 2.90 | 2.90 | 0.00 | 6.73 | 0.43 | 0.00% |
| Z3 | 3.11 | 3.11 | 0.00 | 7.20 | 0.43 | 0.00% |
| Z4 | 3.12 | 3.10 | 0.02 | 7.00 | 0.44 | 0.64% |
| Z5 | 2.92 | 2.92 | 0.00 | 6.73 | 0.43 | 0.00% |
| Z6 | 2.39 | 2.39 | 0.00 | 5.98 | 0.40 | 0.00% |
| Z7 | 2.19 | 2.19 | 0.00 | 5.20 | 0.42 | 0.00% |
| Z8 | 1.69 | 1.69 | 0.00 | 4.04 | 0.42 | 0.00% |
| Z9 | 1.33 | 1.33 | 0.00 | 3.11 | 0.43 | 0.00% |
| Z10 | 0.87 | 0.87 | 0.00 | 2.37 | 0.37 | 0.00% |
| Z11 | 0.81 | 0.81 | 0.00 | 1.77 | 0.46 | 0.00% |
| Z12 | 0.51 | 0.51 | 0.00 | 1.27 | 0.40 | 0.00% |
| Z13 | 0.41 | 0.34 | 0.07 | 0.85 | 0.40 | 17.07% |
| Z14 | 0.53 | 0.50 | 0.03 | 0.50 | 1.00 | 5.66% |

表x-x 工况二应变原始数据处理表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 测点号 | 模数R | 温度T | 模数R | 温度T | 模数R | 温度T | ΔR | ΔT | ΔR | ΔT | 总应变 | 弹性应变 | 残余应变 |
| 1# | 650.9 | 23.3 | 663.0 | 22.8 | 651.9 | 22.9 | 12.1 | -0.5 | 1.0 | -0.4 | 44.8 | 41.7 | 3.1 |
| 2# | 651.9 | 23.4 | 661.7 | 23.0 | 652.3 | 23.1 | 9.8 | -0.4 | 0.4 | -0.3 | 36.3 | 35.3 | 1.0 |
| 3# | 629.4 | 23.3 | 642.0 | 22.9 | 630.1 | 23.2 | 12.6 | -0.4 | 0.7 | -0.1 | 46.8 | 44.4 | 2.5 |
| 4# | 470.0 | 23.3 | 477.0 | 22.9 | 466.1 | 23.0 | 7.0 | -0.4 | -3.9 | -0.3 | 25.7 | 25.7 | 0.0 |
| 5# | 671.1 | 23.3 | 681.8 | 22.9 | 668.9 | 23.0 | 10.7 | -0.4 | -2.2 | -0.3 | 39.7 | 39.7 | 0.0 |
| 6# | 692.9 | 23.3 | 702.5 | 22.9 | 693.4 | 23.0 | 9.6 | -0.4 | 0.5 | -0.3 | 35.5 | 34.2 | 1.3 |
| 7# | 355.0 | 23.3 | 357.9 | 22.9 | 354.6 | 23.0 | 2.9 | -0.4 | -0.4 | -0.3 | 10.2 | 10.2 | 0.0 |
| 8# | 732.4 | 23.2 | 737.5 | 22.9 | 732.5 | 23.0 | 5.1 | -0.3 | 0.1 | -0.2 | 18.7 | 18.7 | 0.0 |
| 9# | 669.0 | 23.2 | 673.9 | 22.9 | 669.2 | 23.0 | 4.9 | -0.3 | 0.2 | -0.2 | 18.0 | 17.6 | 0.4 |
| 10# | 799.1 | 23.3 | 799.9 | 22.9 | 798.8 | 23.0 | 0.8 | -0.4 | -0.3 | -0.3 | 2.3 | 2.3 | 0.0 |
| 11# | 675.9 | 23.2 | 678.2 | 22.9 | 675.7 | 23.0 | 2.3 | -0.3 | -0.2 | -0.2 | 8.1 | 8.1 | 0.0 |
| 12# | 580.0 | 23.3 | 582.9 | 23.0 | 580.4 | 23.1 | 2.9 | -0.3 | 0.4 | -0.2 | 10.4 | 9.3 | 1.1 |
| 13# | 710.2 | 23.2 | 712.2 | 22.9 | 710.3 | 22.9 | 2.0 | -0.3 | 0.1 | -0.3 | 7.0 | 7.0 | 0.0 |
| 14# | 594.7 | 23.3 | 596.3 | 23.1 | 594.3 | 23.0 | 1.6 | -0.2 | -0.4 | -0.3 | 5.7 | 5.7 | 0.0 |

表x-x 工况二应变检测结果汇总表

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 测点号 | 总应变 | 弹性应变 | 残余应变 | 满载应力理论值（MPa） | 满载理论值(με) | 校验系数 | 相对残余应变(%) |
| 1# | 44.8 | 41.7 | 3.1 | 2.9 | 84.1 | 0.5 | 6.82% |
| 2# | 36.3 | 35.3 | 1.0 | 3.0 | 87.0 | 0.4 | 2.67% |
| 3# | 46.8 | 44.4 | 2.5 | 3.6 | 104.3 | 0.4 | 5.26% |
| 4# | 25.7 | 25.7 | 0.0 | 3.4 | 98.6 | 0.3 | 0.00% |
| 5# | 39.7 | 39.7 | 0.0 | 3.6 | 104.3 | 0.4 | 0.00% |
| 6# | 35.5 | 34.2 | 1.3 | 3.2 | 92.8 | 0.4 | 3.79% |
| 7# | 10.2 | 10.2 | 0.0 | 3.0 | 87.0 | 0.1 | 0.00% |
| 8# | 18.7 | 18.7 | 0.0 | 2.0 | 58.0 | 0.3 | 0.09% |
| 9# | 18.0 | 17.6 | 0.4 | 1.4 | 40.6 | 0.4 | 2.20% |
| 10# | 2.3 | 2.3 | 0.0 | 1.1 | 31.9 | 0.1 | 0.00% |
| 11# | 8.1 | 8.1 | 0.0 | 0.8 | 23.2 | 0.4 | 0.00% |
| 12# | 10.4 | 9.3 | 1.1 | 0.6 | 17.4 | 0.5 | 11.05% |
| 13# | 7.0 | 7.0 | 0.0 | 0.4 | 11.6 | 0.6 | 0.00% |
| 14# | 5.7 | 5.7 | 0.0 | 0.3 | 8.7 | 0.7 | 0.00% |