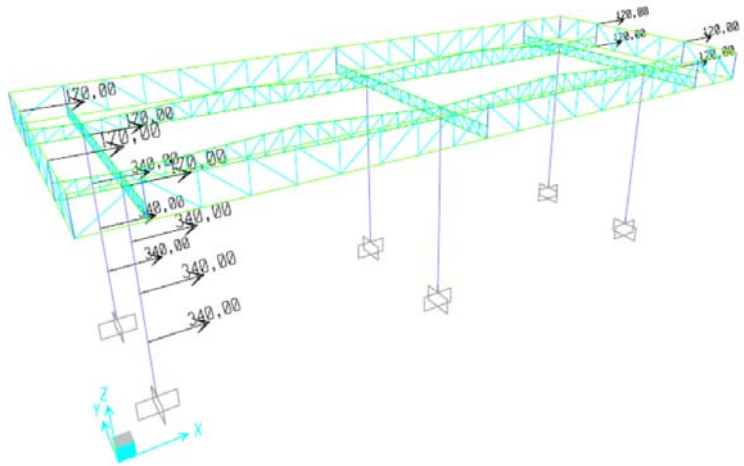
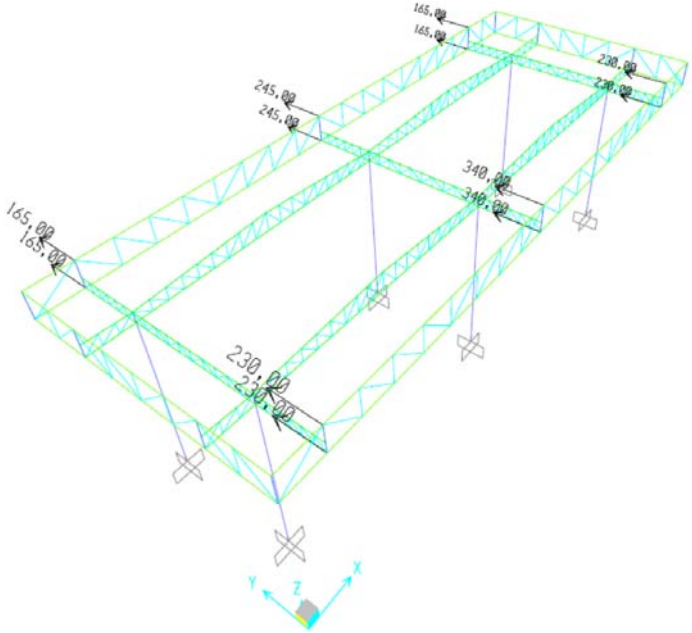
## 10. CARGAS ATUANTES VENTO XX (KG):




## 11. CARGAS ATUANTES VENTO YY (KG):




LUCCAS PROJETOS
ENGENHARIA EM ESTRUTURAS METÁLICAS
CLIENTE

## 16. CARGAS NOS APOIOS:

| TABLE: Joint Reactions | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Joint | OutputCase | CaseType | F1 | F2 | F3 | M1 | M2 | M3 |
| Text | Text | Text | Kgf | Kgf | Kgf | Kgf-m | Kgf-m | Kgf-m |
| N-042 | COMB1 | Combination | -917,82 | -40,31 | 2544,85 | 117,16 | -2887,03 | 0,02244 |
| N-042 | COMB2 | Combination | 35,76 | -447,52 | 2329,92 | 2804,76 | 101,59 | -0,004478 |
| N-066 | COMB1 | Combination | -912,78 | 40,03 | 2295,55 | -137,52 | -2875,08 | -0,0177 |
| N-066 | COMB2 | Combination | 30,88 | -352,17 | 2683,54 | 2501,38 | 87,4 | -0,0342 |
| N-194 | COMB1 | Combination | -337,63 | -148,08 | 3754,56 | 470,83 | -1853,12 | -0,01138 |
| N-194 | COMB2 | Combination | -4,09 | -722,67 | 3443,98 | 4321,15 | -19,59 | -0,0003069 |
| N-215 | COMB1 | Combination | -339,79 | 148,18 | 3773,77 | -470,78 | -1862,58 | 0,0168 |
| N-215 | COMB2 | Combination | -4,51 | -428,73 | 4139,4 | 3385,31 | -20,51 | -0,0003827 |
| N-340 | COMB1 | Combination | -345,51 | -82,52 | 2754,74 | 263,64 | -1878,64 | -0,05316 |
| N-340 | COMB2 | Combination | -33,36 | -468,48 | 2344,7 | 2894,63 | -109,5 | 0,0149 |
| N-363 | COMB1 | Combination | -346,46 | 82,7 | 2761,54 | -263,45 | -1884,47 | 0,06106 |
| N-363 | COMB2 | Combination | -24,68 | -330,43 | 2943,46 | 2453,12 | -83,22 | 0,08679 |

## 17. VERIFICAÇÃO ESTRUTURA – AISC:

| TABLE: Steel Design 2 - PMM Details - AISC-ASD89 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frame | DesignSect | Combo | P | MMajor | MMinor | VMajor | VMinor | T | ffa | Fa | TotalRatio | STATUS |
| Text | Text | Text | Kgf | Kgf-cm | Kgf-cm | Kgf | Kgf | Kgf-cm | Kgf/cm2 | Kgf/cm2 | <1 | Unitless |
| B-001 | TUBO 100x3 | COMB1 | -112,68 | -130,05 | 805,28 | -1,52 | 9,28 | -492,39 | 9,68 | 551,36 | 0,029693 | OK |
| B-002 | U100x50x3 | COMB1 | -540,62 | 387,7 | -19,71 | 3,56 | 0,03866 | -0,25 | 92,89 | 286,6 | 0,371201 | OK |
| B-003 | 2U50X25X3 | COMB1 | 704,86 | 0 | 0 | 0 | 0 | 0,28 | 124,98 | 951,72 | 0,059253 | OK |
| B-004 | U100x50x3 | COMB1 | 19,15 | 446,32 | 153,34 | -3,11 | -0,7 | 0,37 | 3,29 | 17,91 | 0,251551 | OK |
| B-005 | 2U50X25X3 | COMB1 | -468,81 | 0 | 0 | 0 | 0 | 0,08606 | 83,12 | 1469,27 | 0,056574 | OK |
| B-006 | U100x50x3 | COMB1 | -1061,67 | -660,82 | -30,78 | 3,43 | 0,03866 | -0,74 | 182,42 | 286,6 | 0,72222 | OK |
| B-007 | 2U50X25X3 | COMB1 | 701 | 0 | 0 | 0 | 0 | 0,65 | 124,29 | 951,72 | 0,058928 | OK |
| B-008 | U100x50x3 | COMB1 | 543,07 | -894,02 | -56,22 | -5,83 | -0,7 | 0,58 | 93,31 | 17,91 | 0,471282 | OK |
| B-009 | TUBO 100x3 | COMB1 | -775,21 | 11075,46 | 352,15 | -185,49 | -0,15 | -312,24 | 66,6 | 1413,77 | 0,195374 | OK |
| B-010 | TUBO 100x3 | COMB1 | -492,52 | 12805,62 | 334,39 | 170,76 | 11,91 | 50,42 | 42,31 | 1755,1 | 0,194593 | OK |
| B-011 | U100x50x3 | COMB1 | -1075,97 | -593,64 | -5,22 | -3,22 | 0,003165 | 0,8 | 184,87 | 71,65 | | OK |
| B-012 | 2U50X25X3 | COMB2 | -40,22 | 0 | 0 | 0 | 0 | -0,028 | 7,13 | 951,72 | 0,007493 | OK |
| B-013 | U100x50x3 | COMB1 | 1057,13 | -335,25 | -5,78 | 0,74 | 0,06526 | -0,21 | 181,64 | 17,91 | 0,174739 | OK |
| B-014 | 2U50X25X3 | COMB1 | -21,5 | 0 | 0 | 0 | 0 | -0,09445 | 3,81 | 1469,27 | 0,002595 | OK |
| B-015 | U100x50x3 | COMB1 | -1057,07 | -110,6 | -6,21 | 1,27 | 0,003165 | 0,34 | 181,63 | 71,65 | | OK |
| B-016 | 2U50X25X3 | COMB2 | -34,46 | 0 | 0 | 0 | 0 | 0,000524 | 6,11 | 951,72 | 0,006419 | OK |
| B-017 | U100x50x3 | COMB1 | 1032,28 | -243,26 | 13,46 | -0,13 | 0,06526 | 0,05773 | 177,37 | 17,91 | 0,127995 | OK |
| B-018 | 2U50X25X3 | COMB1 | -0,17 | 0 | 0 | 0 | 0 | -0,08434 | 0,02989 | 1469,27 | 0 | OK |
| B-019 | U100x50x3 | COMB1 | -1010,38 | -301,41 | -6,76 | -1,28 | 0,003165 | -0,2 | 173,61 | 71,65 | | OK |
| B-020 | 2U50X25X3 | COMB1 | -29,37 | 0 | 0 | 0 | 0 | 0,36 | 5,21 | 951,72 | 0,005472 | OK |
| B-021 | U100x50x3 | COMB1 | 1032,28 | -243,26 | 13,38 | 0,0421 | 0,06526 | 0,05773 | 177,37 | 17,91 | 0,127984 | OK |
| B-022 | 2U50X25X3 | COMB2 | -25,72 | 0 | 0 | 0 | 0 | 0,0509 | 4,56 | 1469,27 | 0,003104 | OK |
| B-023 | U100x50x3 | COMB1 | -983,97 | -109,61 | -6,81 | 2,79 | 0,003165 | -0,7 | 169,07 | 71,65 | | OK |
| B-024 | 2U50X25X3 | COMB1 | -35,53 | 0 | 0 | 0 | 0 | 0,68 | 6,3 | 951,72 | 0,006619 | OK |
| B-025 | U100x50x3 | COMB1 | 1010,44 | -238,53 | 33,17 | -0,01061 | 0,06526 | 0,33 | 173,62 | 17,91 | 0,128103 | OK |
| B-026 | TUBO 100x3 | COMB1 | -694,13 | 11104,44 | -398,42 | -187,24 | 0,8 | 347,68 | 59,63 | 1413,77 | 0,191424 | OK |
| B-027 | TUBO 100x3 | COMB1 | -410,01 | 12778,72 | -378,41 | 170,41 | -12,8 | -60,89 | 35,22 | 1755,1 | 0,190777 | OK |
| B-028 | U100x50x3 | COMB1 | -969,15 | -561,48 | -27,92 | -2,76 | -0,03226 | 0,69 | 166,52 | 286,6 | 0,653036 | OK |
| B-029 | 2U50X25X3 | COMB1 | 640,42 | 0 | 0 | 0 | 0 | -0,66 | 113,55 | 951,72 | 0,053835 | OK |
| B-030 | U100x50x3 | COMB2 | 504,48 | -866,29 | -563,89 | 5,64 | 4,69 | 0,62 | 86,68 | 17,91 | 0,522831 | OK |
| B-031 | 2U50X25X3 | COMB1 | -427,76 | 0 | 0 | 0 | 0 | -0,01383 | 75,84 | 1469,27 | 0,05162 | OK |
| B-032 | U100x50x3 | COMB2 | -501,42 | 190,16 | -117,07 | -2,08 | 0,4 | 0,86 | 86,16 | 286,6 | 0,343572 | OK |
| B-033 | 2U50X25X3 | COMB1 | 643,2 | 0 | 0 | 0 | 0 | -0,26 | 114,04 | 951,72 | 0,054069 | OK |
| B-034 | U100x50x3 | COMB2 | 39,61 | 442,87 | 843,13 | 3,09 | 4,69 | 0,84 | 6,81 | 17,91 | 0,339359 | OK |
| B-035 | TUBO 100x3 | COMB2 | -112,85 | -165,16 | -1053,15 | -1,89 | -11,1 | 1235,59 | 9,7 | 551,36 | 0,033391 | OK |
| B-036 | U150X50X3 | COMB2 | -817,27 | 914,57 | -523,86 | -15,16 | 15,08 | 0,5 | 111,65 | 1618,84 | 0,148474 | OK |
| B-037 | 2U50X25X3 | COMB1 | 1199,66 | 252,02 | -691,42 | 6,26 | -3,04 | 0,01663 | 212,7 | 1760,16 | 0,126893 | OK |
| B-038 | U150X50X3 | COMB1 | -358,68 | -363,1 | -1730,17 | 12,06 | 39,45 | 0,37 | 49 | 1650,93 | 0,249291 | OK |
| B-039 | U150X50X3 | COMB2 | -902,22 | -1014,79 | -572,28 | 18,66 | 16,55 | -0,69 | 123,25 | 1618,84 | 0,163245 | OK |
| B-040 | 2U50X25X3 | COMB2 | 1166,11 | -74,75 | 1207,62 | -2,42 | 4,78 | -0,01398 | 206,76 | 1760,16 | 0,124634 | OK |