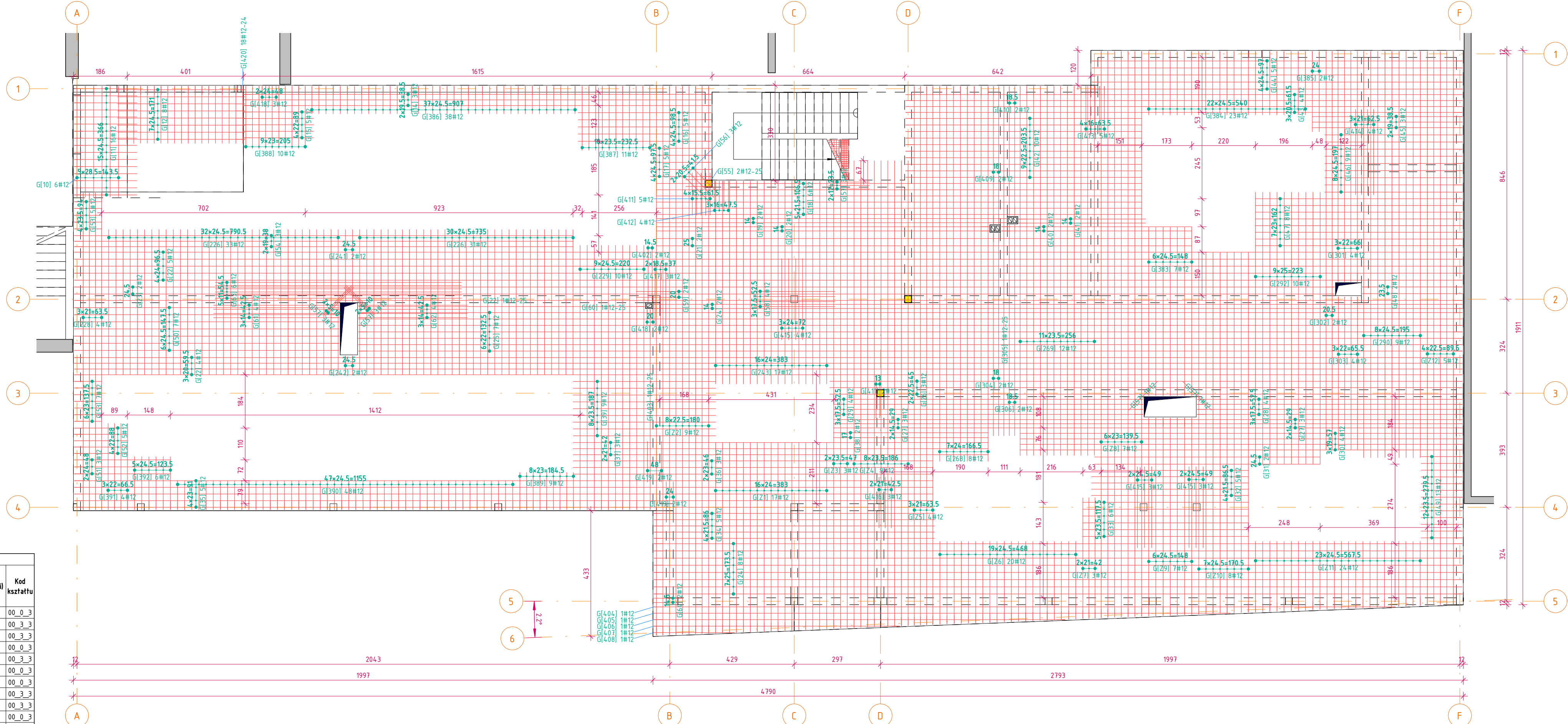


| Strop - zestawienie zbrojenia górnego | | | | | | | | | | | |
|---------------------------------------|--------|--------------|--------|------------|------------|--------------------|-----------------------------|---|------------------------------------|-------------------------|--------------|
| Nr | Ø [mm] | Ilość [szt.] | A [cm] | Hak L [mm] | Hak P [mm] | Długość pręta [cm] | Catkowita długość pręta [m] | Catkowita długość pręta z zakładem [cm] | Catkowita dt. pręta z zakładem [m] | Masa (z zakładami) [kg] | Kod kształtu |
| 226 | 12 | 64 | 500.0 | Brak | Brak | 500 | 320.02 | 500 | 320.02 | 284.12 | 00_0_0 |
| 228 | 12 | 4 | 1093.5 | 30 (180°) | 30 (180°) | 1158 | 46.32 | 1158 | 46.32 | 4.12 | 00_3_3 |
| 229 | 12 | 10 | 912.0 | Brak | 30 (180°) | 94.4 | 94.43 | 94.43 | 83.83 | 00_0_3 | |
| 241 | 12 | 2 | 249.0 | Brak | 40 (180°) | 291.5 | 5.83 | 291.5 | 5.83 | 5.18 | 00_0_3 |
| 242 | 12 | 2 | 66.0 | Brak | 30 (180°) | 98 | 1.96 | 98 | 1.96 | 1.74 | 00_0_3 |
| 243 | 12 | 17 | 700.5 | Brak | 30 (180°) | 732.5 | 124.53 | 732.5 | 124.53 | 110.56 | 00_0_3 |
| 268 | 12 | 8 | 1293.0 | Brak | 30 (180°) | 1325.5 | 106.02 | 1459.5 | 116.74 | 103.65 | 00_0_3 |
| 269 | 12 | 12 | 1273.5 | Brak | 30 (180°) | 1305.5 | 156.67 | 1439.5 | 172.75 | 153.37 | 00_0_3 |
| 290 | 12 | 9 | 1401.5 | Brak | 30 (180°) | 1433.5 | 129.01 | 1567.5 | 141.07 | 125.25 | 00_0_3 |
| 292 | 12 | 10 | 938.0 | Brak | Brak | 938 | 93.79 | 938 | 93.79 | 83.27 | 00_0_0 |
| 301 | 12 | 4 | 795.5 | Brak | 30 (180°) | 827.5 | 33.11 | 827.5 | 33.11 | 29.39 | 00_0_3 |
| 302 | 12 | 2 | 1374.5 | 30 (180°) | 30 (180°) | 1439 | 28.78 | 1573 | 31.46 | 27.93 | 00_3_3 |
| 303 | 12 | 4 | 528.5 | Brak | 30 (180°) | 561 | 22.43 | 561 | 22.43 | 19.91 | 00_0_3 |
| 304 | 12 | 2 | 699.5 | Brak | 30 (180°) | 731.5 | 14.63 | 731.5 | 14.63 | 12.99 | 00_0_3 |
| 305 | 12 | 1 | 1206.0 | Brak | 30 (180°) | 1238 | 12.38 | 1372 | 13.72 | 12.18 | 00_0_3 |
| 306 | 12 | 2 | 728.5 | Brak | 30 (180°) | 760.5 | 15.21 | 760.5 | 15.21 | 13.51 | 00_0_3 |
| 383 | 12 | 7 | 581.0 | Brak | 30 (180°) | 613.5 | 42.94 | 613.5 | 42.94 | 38.12 | 00_0_3 |
| 384 | 12 | 23 | 219.5 | Brak | 30 (180°) | 251.5 | 57.89 | 251.5 | 57.89 | 51.40 | 00_0_3 |
| 385 | 12 | 2 | 277.5 | Brak | 30 (180°) | 310 | 6.20 | 310 | 6.2 | 5.50 | 00_0_3 |
| 386 | 12 | 38 | 96.0 | Brak | 30 (180°) | 128 | 48.65 | 128 | 48.65 | 43.20 | 00_0_3 |
| 387 | 12 | 11 | 222.0 | Brak | 30 (180°) | 254 | 27.96 | 254 | 27.96 | 24.82 | 00_0_3 |
| 388 | 12 | 10 | 216.0 | Brak | 30 (180°) | 248.5 | 24.83 | 248.5 | 24.83 | 22.04 | 00_0_3 |
| 389 | 12 | 9 | 129.5 | Brak | 30 (180°) | 162 | 14.57 | 162 | 14.57 | 12.93 | 00_0_3 |
| 390 | 12 | 48 | 100.5 | Brak | 30 (180°) | 133 | 63.77 | 133 | 63.77 | 56.61 | 00_0_3 |
| 391 | 12 | 4 | 298.5 | Brak | 30 (180°) | 330.5 | 13.23 | 330.5 | 13.23 | 11.74 | 00_0_3 |
| 392 | 12 | 6 | 183.5 | Brak | 30 (180°) | 216 | 12.96 | 216 | 12.96 | 11.50 | 00_0_3 |
| 402 | 12 | 2 | 195.0 | Brak | 30 (180°) | 227.5 | 4.55 | 227.5 | 4.55 | 4.04 | 00_0_3 |
| 403 | 12 | 1 | 692.0 | 30 (180°) | 30 (180°) | 756.5 | 7.56 | 756.5 | 7.56 | 6.72 | 00_3_3 |
| 404 | 12 | 1 | 2557.0 | 30 (180°) | 30 (180°) | 2621.5 | 26.22 | 2889.5 | 28.9 | 25.66 | 00_3_3 |
| 405 | 12 | 1 | 1987.5 | 30 (180°) | 30 (180°) | 2052 | 20.52 | 2186 | 21.86 | 19.41 | 00_3_3 |
| 406 | 12 | 1 | 1418.0 | 30 (180°) | 30 (180°) | 1482.5 | 14.83 | 1616.5 | 16.17 | 14.35 | 00_3_3 |
| 407 | 12 | 1 | 848.5 | 30 (180°) | 30 (180°) | 913 | 9.13 | 913 | 9.13 | 8.11 | 00_3_3 |
| 408 | 12 | 1 | 279.0 | 30 (180°) | 30 (180°) | 343.5 | 3.44 | 343.5 | 3.44 | 3.05 | 00_3_3 |
| 409 | 12 | 2 | 476.0 | 30 (180°) | 30 (180°) | 540.5 | 10.81 | 540.5 | 10.81 | 9.59 | 00_3_3 |
| 410 | 12 | 2 | 447.0 | 30 (180°) | 30 (180°) | 511.5 | 10.23 | 511.5 | 10.23 | 9.08 | 00_3_3 |
| 411 | 12 | 7 | 146.0 | Brak | Brak | 146 | 10.23 | 146 | 10.23 | 9.08 | 00_0_0 |
| 412 | 12 | 4 | 105.0 | Brak | 30 (180°) | 137 | 5.49 | 137 | 5.49 | 4.87 | 00_0_3 |
| 413 | 12 | 5 | 171.5 | Brak | 30 (180°) | 203.5 | 10.19 | 203.5 | 10.19 | 9.04 | 00_0_3 |
| 414 | 12 | 4 | 294.5 | Brak | Brak | 294.5 | 11.79 | 294.5 | 11.79 | 10.47 | 00_0_0 |
| 415 | 12 | 10 | 280.0 | Brak | Brak | 280 | 28.00 | 280 | 28 | 24.86 | 00_0_0 |
| 416 | 12 | 3 | 174.5 | Brak | Brak | 174.5 | 5.24 | 174.5 | 5.24 | 4.65 | 00_0_0 |
| 417 | 12 | 3 | 217.0 | Brak | Brak | 217 | 6.50 | 217 | 6.5 | 5.77 | 00_0_0 |
| 418 | 12 | 5 | 56.5 | Brak | 30 (180°) | 89 | 4.44 | 89 | 4.44 | 3.95 | 00_0_3 |
| 419 | 12 | 4 | 140.0 | Brak | Brak | 140 | 5.60 | 140 | 5.6 | 4.97 | 00_0_0 |
| 420 | 12 | 18 | 197.5 | Brak | 30 (180°) | 229.5 | 41.35 | 229.5 | 41.35 | 36.71 | 00_0_3 |
| Suma ogólna: | | 386 | | | | | 1754.23 | | 1802.47 | 1600.26 | |

| Strop - zestawienie zbrojenia górnego, zmiennego | | | | | | | | | | | |
|--|--------|--------------|------------|------------|-------------------------------|------------------------------|---------------|-----------------------------|--------------------------|-------------------------------------|-------------------------|
| Znak | Ø [mm] | Ilość [szt.] | Hak L [mm] | Hak P [mm] | Maksymalna długość pręta [cm] | Minimalna długość pręta [cm] | Przyrost [cm] | Catkowita długość pręta [m] | Masa (bez zakładów) [kg] | Catkowita dt. pręta z zakładem [cm] | Masa (z zakładami) [kg] |
| Z1 | 12 | 17 | Brak | 30 (180°) | 690.5 | 675.5 | 1 | 116.11 | 103.08 | 11611 | 103.08 |
| Z2 | 12 | 9 | 30 (180°) | 30 (180°) | 1959.0 | 1952.0 | 1 | 175.98 | 156.24 | 18444 | 163.75 |
| Z3 | 12 | 3 | 30 (180°) | 30 (180°) | 1608.0 | 1606.5 | 1 | 4.822 | 4.281 | 5103.5 | 4.531 |
| Z4 | 12 | 9 | Brak | 30 (180°) | 1642.5 | 1635.5 | 1 | 14.752 | 130.97 | 15598 | 138.48 |
| Z5 | 12 | 4 | 30 (180°) | 30 (180°) | 1923.5 | 1921.0 | 1 | 76.90 | 68.27 | 8065.5 | 71.61 |
| Z6 | 12 | 20 | Brak | 30 (180°) | 319.0 | 300.5 | 1 | 61.96 | 55.01 | 6196 | 55.01 |
| Z7 | 12 | 3 | Brak | 30 (180°) | 450.0 | 448.0 | 1 | 13.47 | 11.96 | 1347 | 11.96 |
| Z8 | 12 | 7 | 30 (180°) | 30 (180°) | 2018.5 | 2013.0 | 1 | 14.111 | 125.28 | 14768.5 | 131.12 |
| Z9 | 12 | 7 | 30 (180°) | 30 (180°) | 749.5 | 743.5 | 1 | 52.26 | 46.39 | 5225.5 | 46.39 |
| Z10 | 12 | 8 | Brak | 30 (180°) | 1280.0 | 1273.5 | 1 | 102.15 | 90.69 | 10967 | 97.36 |
| Z11 | 12 | 24 | Brak | 30 (180°) | 276.5 | 254.5 | 1 | 63.75 | 56.60 | 6375 | 56.60 |
| Z12 | 12 | 5 | 30 (180°) | 30 (180°) | 1975.5 | 1972.0 | 1 | 98.69 | 87.62 | 10339 | 91.79 |
| Suma ogólna: | | 116 | | | | | | 1098.10 | 974.91 | 11404.0 | 1012.46 |



| | | | |
|---|--|--|-----------------|
| Beton C25/30 (B30) | | | |
| Stal fyk 500 MPa, klasa ciągliwości C | | | |
| Otulina 2.5 cm | | | |
| Grubość 28 cm | | | |
| BIURO PROJEKTOWE I NADZÓR BUDOWLANY | | | Data: |
| mgr inż. Marcin Bartoś, Rychnowy 1b, 77-300 Cztuchów | | | 2019-05-20 |
| tel. kom: 663 922 034; fax: 597268037 | | | |
| e-mail: biuro@marcinbartos.pl; marcinbartos4@wp.pl; www.marcinbartos.pl | | | |
| KONSTRUKCJA | | | Skala: Rys. nr: |
| | | | 1 : 100 K3.2 |
| Temat: | Strop - zbrojenie górą | | |
| Nazwa inwestycji: | Rozbudowa szkoły podstawowej w Dziemianach | | |
| Adres: | Dziemiany ul. Wyzwolenia 20, dz. 43/2 i 42/11, obręb i gmina Dziemiany TERYT 2206022 | | |
| Projektant | Konstrukcja | mgr inż. Marcin Bartoś | |
| | | Upr.: POM/0112/P00K/13 | |
| | | do proj. bez ograniczeń w spec. konstrukcyjnej | |
| Projektant spr. | Konstrukcja | mgr inż. Maciej Burglin | |
| | | Upr.: POM/0131/P00K/09 | |
| | | do proj. bez ograniczeń w spec. konstrukcyjnej | |

Zakłady dla prętów #12 - 134 cm

Kierunek zbrojenia zewnętrznego