



| WYM. BLOKÓW OPOROWYCH grunty mokre |             |     |     |     |      |                 |      |      |                |     |     |
|------------------------------------|-------------|-----|-----|-----|------|-----------------|------|------|----------------|-----|-----|
| wewn.<br>średn.                    | kąt<br>zał. | A   |     | B   |      | ciśn. prób. 7,5 |      |      | ciśn. prób. 15 |     |     |
|                                    |             | α   | mm  | mm  | h    | l               | b    | h    | l              | b   |     |
| mm                                 |             | α   | mm  | mm  | h    | l               | mm   | h    | mm             | mm  | mm  |
| 100                                | 90          | 30  | 300 | 200 | 300  | 400             | 200  | 300  | 800            | 300 | 300 |
|                                    | 45          | 30  | 300 | 200 | 250  | 300             | 200  | 300  | 500            | 300 | 300 |
|                                    | 30          | 30  | 300 | 200 | 200  | 300             | 200  | 300  | 350            | 250 | 250 |
| 150                                | 90          | 40  | 400 | 200 | 450  | 850             | 200  | 500  | 1000           | 250 | 250 |
|                                    | 45          | 40  | 400 | 200 | 400  | 500             | 200  | 400  | 750            | 200 | 200 |
|                                    | 30          | 40  | 400 | 200 | 400  | 500             | 200  | 400  | 750            | 200 | 200 |
| 200                                | 90          | 60  | 600 | 250 | 650  | 1250            | 250  | 750  | 1800           | 350 | 350 |
|                                    | 45          | 50  | 500 | 250 | 500  | 700             | 200  | 500  | 1000           | 200 | 200 |
|                                    | 30          | 450 | 250 | 500 | 700  | 200             | 500  | 1000 | 200            | 200 | 200 |
| 250                                | 90          | 750 | 300 | 800 | 1750 | 350             | 1000 | 2100 | 4200           | 200 | 200 |
|                                    | 45          | 550 | 300 | 700 | 950  | 250             | 800  | 1250 | 300            | 300 | 300 |
|                                    | 30          | 500 | 300 | 600 | 700  | 250             | 800  | 1150 | 260            | 260 | 260 |
| 300                                | 90          | 800 | 400 | 800 | 2500 | 450             | 1200 | 2500 | 5000           | 200 | 200 |
|                                    | 45          | 550 | 400 | 800 | 1350 | 250             | 800  | 1800 | 350            | 350 | 350 |
|                                    | 30          | 500 | 400 | 750 | 900  | 250             | 800  | 1250 | 250            | 250 | 250 |

| WYM. BLOKÓW OPOR. grunty suche i wilgotne |             |     |     |     |      |                 |     |      |                |    |    |
|-------------------------------------------|-------------|-----|-----|-----|------|-----------------|-----|------|----------------|----|----|
| wewn.<br>średn.                           | kąt<br>zał. | A   |     | B   |      | ciśn. prób. 7,5 |     |      | ciśn. prób. 15 |    |    |
|                                           |             | h   | l   | b   | h    | l               | b   |      |                |    |    |
| mm                                        | α           | mm  | mm  | mm  | mm   | mm              | mm  | mm   | mm             | mm | mm |
| 100                                       | 90          | 300 | 200 | 200 | 300  | 200             | 300 | 550  | 250            |    |    |
|                                           | 45          | 300 | 200 | 200 | 300  | 200             | 300 | 300  | 200            |    |    |
|                                           | 30          | 300 | 200 | 200 | 300  | 200             | 300 | 200  | 200            |    |    |
| 150                                       | 90          | 400 | 200 | 300 | 770  | 250             | 400 | 1040 | 380            |    |    |
|                                           | 45          | 400 | 200 | 300 | 520  | 250             | 400 | 640  | 250            |    |    |
|                                           | 30          | 400 | 200 | 300 | 520  | 250             | 400 | 640  | 250            |    |    |
| 200                                       | 90          | 600 | 250 | 450 | 1040 | 250             | 600 | 1290 | 380            |    |    |
|                                           | 45          | 500 | 250 | 450 | 520  | 250             | 450 | 770  | 250            |    |    |
|                                           | 30          | 450 | 250 | 450 | 520  | 250             | 450 | 770  | 250            |    |    |
| 250                                       | 90          | 750 | 300 | 600 | 1290 | 380             | 650 | 1540 | 570            |    |    |
|                                           | 45          | 650 | 300 | 600 | 640  | 280             | 600 | 1040 | 380            |    |    |
|                                           | 30          | 500 | 300 | 600 | 520  | 250             | 600 | 770  | 250            |    |    |
| 300                                       | 90          | 800 | 400 | 650 | 1420 | 380             | 450 | 1690 | 510            |    |    |
|                                           | 45          | 550 | 400 | 650 | 730  | 380             | 850 | 1290 | 380            |    |    |
|                                           | 30          | 500 | 400 | 650 | 640  | 250             | 900 | 900  | 250            |    |    |

| WYM. BLOKÓW OPOROWYCH grunty mokre |     |     |                 |      |     |                |      |     |
|------------------------------------|-----|-----|-----------------|------|-----|----------------|------|-----|
| średnica trójnika                  | A   | B   | ciśn. prób. 7,5 |      |     | ciśn. prób. 15 |      |     |
|                                    |     |     | h               | l    | b   | h              | l    | b   |
| mm                                 | mm  | mm  | mm              | mm   | mm  | mm             | mm   | mm  |
| 100/100                            | 300 | 200 | 300             | 300  | 250 | 300            | 500  | 250 |
| 150/100                            |     |     |                 |      |     |                |      |     |
| 150/150                            | 400 | 240 | 400             | 500  | 300 | 500            | 800  | 300 |
| 200/150                            |     |     |                 |      |     |                |      |     |
| 200/200                            | 500 | 250 | 400             | 800  | 300 | 500            | 800  | 300 |
| 250/200                            |     |     |                 |      |     |                |      |     |
| 250/250                            | 600 | 300 | 600             | 900  | 400 | 600            | 1150 | 300 |
| 300/250                            |     |     |                 |      |     |                |      |     |
| 300/300                            | 700 | 400 | 600             | 1350 | 400 | 750            | 1400 | 400 |

| WYM. BLOKÓW OPOR. grunty suche i wilgotne |     |     |                 |     |     |                |      |     |
|-------------------------------------------|-----|-----|-----------------|-----|-----|----------------|------|-----|
| średnica trójnika                         | A   | B   | ciśn. prób. 7,5 |     |     | ciśn. prób. 15 |      |     |
|                                           |     |     | h               | l   | b   | h              | l    | b   |
| mm                                        | mm  | mm  | mm              | mm  | mm  | mm             | mm   | mm  |
| 100/100                                   | 300 | 200 | 300             | 300 | 250 | 300            | 400  | 250 |
| 150/100                                   |     |     |                 |     |     |                |      |     |
| 150/150                                   | 400 | 200 | 300             | 450 | 300 | 350            | 800  | 300 |
| 200/150                                   |     |     |                 |     |     |                |      |     |
| 200/200                                   | 500 | 250 | 300             | 750 | 300 | 350            | 900  | 300 |
| 250/200                                   |     |     |                 |     |     |                |      |     |
| 250/250                                   | 600 | 300 | 400             | 850 | 300 | 650            | 1100 | 400 |
| 300/250                                   |     |     |                 |     |     |                |      |     |
| 300/300                                   | 700 | 400 | 600             | 850 | 400 | 800            | 1250 | 400 |

| WYMIARY BLOKÓW OPOROWYCH |          |                 |     |                |     |                 |     |                |     |
|--------------------------|----------|-----------------|-----|----------------|-----|-----------------|-----|----------------|-----|
| wewn. średn.             | kąt zał. | ciśn. prób. 7,5 |     | ciśn. prób. 15 |     | ciśn. prób. 7,5 |     | ciśn. prób. 15 |     |
|                          |          | h               | l   | h              | l   | h               | l   | h              | l   |
| 100                      | 45       | 100             | 300 | 100            | 300 | 100             | 300 | 100            | 300 |
|                          | 30       | 80              | 250 | 80             | 250 | 80              | 250 | 80             | 250 |
|                          | 30       | 80              | 250 | 80             | 250 | 80              | 250 | 80             | 250 |
| 150                      | 45       | 100             | 350 | 100            | 350 | 100             | 350 | 100            | 350 |
|                          | 30       | 80              | 350 | 80             | 350 | 80              | 350 | 80             | 350 |
|                          | 30       | 80              | 350 | 80             | 350 | 80              | 350 | 80             | 350 |
| 200                      | 45       | 100             | 500 | 100            | 500 | 100             | 500 | 100            | 500 |
|                          | 30       | 100             | 400 | 100            | 400 | 100             | 400 | 100            | 400 |
|                          | 30       | 100             | 400 | 100            | 400 | 100             | 400 | 100            | 400 |
| 250                      | 45       | 150             | 550 | 150            | 550 | 150             | 550 | 150            | 550 |
|                          | 30       | 100             | 500 | 100            | 500 | 100             | 500 | 100            | 500 |
|                          | 30       | 100             | 500 | 100            | 500 | 100             | 500 | 100            | 500 |
| 300                      | 45       | 150             | 600 | 150            | 600 | 150             | 600 | 150            | 600 |
|                          | 30       | 150             | 550 | 150            | 550 | 150             | 550 | 150            | 550 |
|                          | 30       | 150             | 550 | 150            | 550 | 150             | 550 | 150            | 550 |

| D<br>nom. | kąt<br>zał.<br>α | D/g       | B   | ciśn. prób. 10 atm |      |      |      |    |                 |     | ciśn. prób. 15 atm |      |      |      |    |                 |     |
|-----------|------------------|-----------|-----|--------------------|------|------|------|----|-----------------|-----|--------------------|------|------|------|----|-----------------|-----|
|           |                  |           |     | siła<br>całk       | h    | A    | l    | d  | poprze-<br>czka | b   | siła<br>całk       | h    | A    | l    | d  | poprze-<br>czka | b   |
| mm        | °                | mm        | mm  | kN                 | mm   | mm   | mm   | mm | mm              | mm  | kN                 | mm   | mm   | mm   | mm | mm              |     |
| 80        | 5                | 108,0/4,0 | 150 | 0,5                | 450  | 250  | 700  | 10 | 35              | 50  | 0,8                | 450  | 250  | 700  | 10 | 35              | 50  |
|           | 11,25            | 108,0/4,0 | 150 | 1,2                | 450  | 250  | 700  | 10 | 35              | 50  | 1,8                | 600  | 350  | 900  | 10 | 35              | 50  |
|           | 22,5             | 108,0/4,0 | 150 | 2,4                | 650  | 350  | 1000 | 10 | 35              | 50  | 3,6                | 750  | 400  | 1100 | 10 | 35              | 50  |
|           | 30               | 108,0/4,0 | 150 | 3,2                | 750  | 400  | 1100 | 10 | 35              | 50  | 4,8                | 800  | 450  | 1200 | 10 | 35              | 50  |
| 100       | 45               | 108,0/4,0 | 150 | 4,8                | 900  | 500  | 1300 | 10 | 35              | 50  | 7,2                | 1000 | 550  | 1500 | 10 | 35              | 50  |
|           | 5                | 159,0/4,0 | 200 | 0,8                | 450  | 250  | 700  | 10 | 35              | 50  | 1,2                | 450  | 250  | 700  | 10 | 35              | 50  |
|           | 11,25            | 159,0/4,0 | 200 | 1,8                | 600  | 350  | 900  | 10 | 35              | 50  | 2,7                | 600  | 350  | 900  | 10 | 35              | 50  |
|           | 22,5             | 159,0/4,0 | 200 | 3,6                | 750  | 400  | 1100 | 10 | 35              | 50  | 5,3                | 900  | 500  | 1300 | 10 | 35              | 50  |
| 150       | 30               | 159,0/4,0 | 200 | 4,8                | 800  | 450  | 1200 | 10 | 35              | 50  | 7,2                | 1000 | 550  | 1500 | 10 | 35              | 50  |
|           | 45               | 159,0/4,0 | 200 | 7,1                | 1000 | 550  | 1500 | 10 | 35              | 50  | 10,7               | 1150 | 650  | 1700 | 12 | 50              | 70  |
|           | 5                | 219,1/4,5 | 200 | 1,7                | 500  | 300  | 750  | 10 | 35              | 50  | 2,6                | 600  | 350  | 900  | 10 | 35              | 50  |
|           | 11,25            | 219,1/4,5 | 200 | 3,8                | 750  | 400  | 1100 | 10 | 35              | 50  | 5,7                | 800  | 450  | 1200 | 10 | 35              | 50  |
| 200       | 22,5             | 219,1/4,5 | 200 | 7,5                | 900  | 500  | 1400 | 10 | 35              | 50  | 11,3               | 1100 | 600  | 1600 | 10 | 50              | 70  |
|           | 30               | 219,1/4,5 | 200 | 10,2               | 1100 | 600  | 1600 | 10 | 40              | 60  | 15,3               | 1250 | 650  | 1800 | 12 | 65              | 80  |
|           | 45               | 219,1/4,5 | 200 | 15,1               | 1300 | 750  | 2000 | 12 | 65              | 70  | 22,6               | 1550 | 850  | 2300 | 14 | 100             | 120 |
|           | 5                | 273,0/4,5 | 250 | 3,4                | 650  | 350  | 1000 | 10 | 35              | 50  | 5,1                | 750  | 400  | 1100 | 10 | 35              | 50  |
| 250       | 11,25            | 273,0/4,5 | 250 | 7,5                | 900  | 500  | 1300 | 10 | 35              | 50  | 11,2               | 1000 | 550  | 1500 | 10 | 65              | 80  |
|           | 22,5             | 273,0/4,5 | 250 | 14,9               | 1250 | 650  | 1800 | 12 | 65              | 80  | 22,3               | 1400 | 800  | 2100 | 14 | 100             | 120 |
|           | 30               | 273,0/4,5 | 250 | 20,2               | 1400 | 800  | 2100 | 14 | 100             | 120 | 30,3               | 1650 | 900  | 2500 | 16 | 120             | 150 |
|           | 45               | 273,0/4,5 | 250 | 29,8               | 1650 | 900  | 2500 | 16 | 120             | 140 | 44,7               | 2000 | 900  | 3000 | 20 | 160             | 200 |
| 300       | 5                | 323,9/4,5 | 300 | 5,5                | 750  | 400  | 1100 | 10 | 35              | 50  | 8,3                | 900  | 500  | 1300 | 10 | 35              | 50  |
|           | 11,25            | 323,9/4,5 | 300 | 12,2               | 1100 | 600  | 1600 | 12 | 65              | 80  | 18,2               | 1250 | 650  | 1800 | 12 | 100             | 120 |
|           | 22,5             | 323,9/4,5 | 300 | 24,2               | 1550 | 850  | 2300 | 14 | 120             | 140 | 36,3               | 1650 | 900  | 2500 | 18 | 140             | 170 |
|           | 30               | 323,9/4,5 | 300 | 32,9               | 1650 | 900  | 2500 | 18 | 140             | 170 | 49,3               | 2000 | 900  | 3000 | 20 | 180             | 210 |
| 300       | 45               | 323,9/4,5 | 300 | 49,0               | 2200 | 1000 | 3300 | 20 | 180             | 210 | 72,9               | 2200 | 1300 | 3300 | 22 | 220             | 250 |
|           | 5                | 355,6/4,5 | 400 | 7,6                | 900  | 500  | 1300 | 10 | 65              | 80  | 11,4               | 1000 | 550  | 1500 | 10 | 80              | 100 |
|           | 11,25            | 355,6/4,5 | 400 | 16,8               | 1150 | 650  | 1700 | 12 | 120             | 140 | 25,1               | 1400 | 800  | 2100 | 14 | 140             | 170 |
|           | 22,5             | 355,6/4,5 | 400 | 33,8               | 1650 | 900  | 2500 | 18 | 160             | 200 | 50,7               | 2000 | 900  | 3000 | 20 | 200             | 230 |
| 300       | 30               | 355,6/4,5 | 400 | 45,8               | 2000 | 900  | 3000 | 20 | 200             | 230 | 68,7               | 2200 | 1050 | 3300 | 22 | 240             | 270 |
|           | 45               | 355,6/4,5 | 400 | 67,8               | 2200 | 1200 | 3300 | 22 | 240             | 270 | 101,6              | 2200 | 1800 | 3300 | 24 | 300             | 330 |