

# Czarna Spleja Black IPA

- Gravity **13.8 BLG**
- ABV ---
- IBU **50**
- SRM **30.3**
- Style **Black IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **23.1 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.2 liter(s)**
- Total mash volume **21.6 liter(s)**

## Fermentables

| Type  | Name                             | Amount         | Yield | EBC  |
|-------|----------------------------------|----------------|-------|------|
| Grain | pilzński Viking Malt             | 3 kg (55.6%)   | 80 %  | 5    |
| Grain | monachijski typ II Viking Malt   | 1.5 kg (27.8%) | 79 %  | 25   |
| Grain | karmelowy 600 - Viking Malt      | 0.3 kg (5.6%)  | 65 %  | 600  |
| Grain | barwiący obłuszczony Viking Malt | 0.3 kg (5.6%)  | 1 %   | 1000 |
| Grain | Płatki owsiane                   | 0.3 kg (5.6%)  | 85 %  | 3    |

## Hops

| Use for             | Name                      | Amount | Time   | Alpha acid |
|---------------------|---------------------------|--------|--------|------------|
| Boil                | Warrior (USA) - granulát  | 12 g   | 45 min | 14.5 %     |
| Boil                | Palisade (USA) - granulát | 5 g    | 20 min | 7.6 %      |
| Boil                | Amarillo (USA) - granulát | 5 g    | 20 min | 7.5 %      |
| Boil                | Mosaic (USA) - granulát   | 5 g    | 20 min | 11.8 %     |
| Aroma (end of boil) | Palisade (USA) - granulát | 20 g   | 10 min | 7.6 %      |
| Aroma (end of boil) | Amarillo (USA) - granulát | 20 g   | 10 min | 7.5 %      |
| Aroma (end of boil) | Mosaic (USA) - granulát   | 20 g   | 10 min | 11.8 %     |
| Whirlpool           | Palisade (USA) - granulát | 25 g   | 0 min  | 7.6 %      |
| Whirlpool           | Amarillo (USA) - granulát | 25 g   | 0 min  | 7.5 %      |

|           |                            |      |       |        |
|-----------|----------------------------|------|-------|--------|
| Whirlpool | Mosaic (USA) -<br>granulat | 25 g | 0 min | 11.8 % |
|-----------|----------------------------|------|-------|--------|

## Yeasts

| Name          | Type | Form | Amount | Laboratory |
|---------------|------|------|--------|------------|
| US West Coast | Ale  | Dry  | 11.5 g | Gozdawa    |