

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) - granulat | 25 g | 0 min | 11.8 % |
|-----------|----------------------------|------|-------|--------|

Yeasts

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