

Portierów dwóch.

- Gravity **20 BLG**
- ABV **8.8 %**
- IBU **43**
- SRM **22.1**
- Style **Baltic Porter**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **100 min**
- Evaporation rate **10 %/h**
- Boil size **26.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **25.2 liter(s)**
- Total mash volume **33.6 liter(s)**

Steps

- Temp **50 C**, Time **10 min**
- Temp **64 C**, Time **50 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **25.2 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **50 min** at **64C**
- Keep mash **20 min** at **72C**
- Sparge using **10 liter(s)** of **76C** water or to achieve **26.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|--------|-----|
| Grain | Strzegom Pilzneński | 3 kg (35.7%) | 80 % | 4 |
| Grain | Strzegom Monachijski typ II | 2 kg (23.8%) | 79 % | 22 |
| Grain | Strzegom Wiedeński | 1.7 kg (20.2%) | 79 % | 10 |
| Grain | Viking Pale Ale malt | 0.7 kg (8.3%) | 80 % | 5 |
| Grain | Weyermann Caramunich 3 | 0.3 kg (3.6%) | 76 % | 150 |
| Grain | Caramunich® typ I | 0.3 kg (3.6%) | 73 % | 80 |
| Grain | Special B Malt | 0.2 kg (2.4%) | 65.2 % | 100 |
| Grain | Jęczmień palony | 0.2 kg (2.4%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil | Warrior | 30 g | 60 min | 15.5 % |
| Boil | Lublin (Lubelski) | 25 g | 20 min | 4 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

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|------------------------|-------|-------|--------|------------------|
| FM30 Bohemska rapsodia | Lager | Slant | 500 ml | Fermentum Mobile |
|------------------------|-------|-------|--------|------------------|