

## ver

- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **18**
- SRM **3.9**

### Batch size

- Expected quantity of finished beer **1700 liter(s)**
- Trub loss **5 %**
- Size with trub loss **1785 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **2183.1 liter(s)**

### Mash information

- Mash efficiency **96 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **1266 liter(s)**
- Total mash volume **1688 liter(s)**

### Steps

- Temp **66 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **1266 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **40 min** at **66C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **1339.1 liter(s)** of **76C** water or to achieve **2183.1 liter(s)** of wort

### Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 296 kg (70.1%) | 80 %  | 5   |
| Grain | Pilzński             | 42 kg (10%)    | 81 %  | 4   |
| Grain | Płatki owsiane       | 42 kg (10%)    | 85 %  | 3   |
| Grain | Płatki pszeniczne    | 42 kg (10%)    | 85 %  | 3   |

### Hops

| Use for   | Name    | Amount | Time     | Alpha acid |
|-----------|---------|--------|----------|------------|
| Boil      | Chinook | 1100 g | 20 min   | 13 %       |
| Boil      | Cascade | 1000 g | 10 min   | 6 %        |
| Whirlpool | Cascade | 1100 g | 20 min   | 6 %        |
| Whirlpool | Citra   | 500 g  | 20 min   | 12 %       |
| Whirlpool | Mosaic  | 500 g  | 20 min   | 7 %        |
| Dry Hop   | Kohatu  | 3000 g | 7 day(s) | 7.8 %      |
| Dry Hop   | Equinox | 4600 g | 7 day(s) | 13.1 %     |

### Yeasts

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

|                          |     |        |        |             |
|--------------------------|-----|--------|--------|-------------|
| Wyeast - American Ale II | Ale | Liquid | 100 ml | Wyeast Labs |
|--------------------------|-----|--------|--------|-------------|