

## Pils

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **40**
- SRM **4.8**
- Style **Bohemian Pilsener**

### Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.1 liter(s)**
- Total mash volume **22.8 liter(s)**

### Steps

- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **17.1 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **12.7 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

### Fermentables

| Type  | Name                       | Amount        | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Strzegom Pilzneński        | 4 kg (70.2%)  | 80 %  | 4   |
| Grain | Strzegom Pszeniczny        | 0.5 kg (8.8%) | 81 %  | 6   |
| Grain | Strzegom Monachijski typ I | 0.5 kg (8.8%) | 79 %  | 16  |
| Grain | Weyermann - Carapils       | 0.2 kg (3.5%) | 78 %  | 4   |
| Grain | Viking Pale Ale malt       | 0.5 kg (8.8%) | 80 %  | 5   |

### Hops

| Use for | Name                  | Amount | Time   | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil    | Saaz (Czech Republic) | 20 g   | 60 min | 4 %        |
| Boil    | Premiant              | 20 g   | 60 min | 6.6 %      |
| Boil    | Saaz (Czech Republic) | 25 g   | 15 min | 4 %        |
| Boil    | Premiant              | 25 g   | 15 min | 6.6 %      |
| Boil    | Saaz (Czech Republic) | 25 g   | 2 min  | 4 %        |
| Boil    | Premiant              | 25 g   | 2 min  | 6.6 %      |

**Yeasts**

| Name                                  | Type  | Form | Amount | Laboratory      |
|---------------------------------------|-------|------|--------|-----------------|
| Mangrove Jack's<br>M84 Bohemian Lager | Lager | Dry  | 10 g   | Mangrove Jack's |