

Pociśnięty

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **35**
- SRM **3.1**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **28.8 liter(s)**

Mash information

- Mash efficiency **92 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.2 liter(s)**
- Total mash volume **17.6 liter(s)**

Steps

- Temp **50 C**, Time **10 min**
- Temp **54 C**, Time **10 min**
- Temp **65 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **13.2 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **10 min** at **54C**
- Keep mash **50 min** at **65C**
- Keep mash **10 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **20 liter(s)** of **76C** water or to achieve **28.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Pilzneński | 3.5 kg (79.5%) | 81 % | 4 |
| Grain | Weyermann - Carapils | 0.5 kg (11.4%) | 78 % | 4 |
| Grain | Chit Malt | 0.4 kg (9.1%) | 50 % | 2 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|--------|--------|------------|
| Boil | Hallertau Tradition | 40 g | 50 min | 5 % |
| Boil | Hallertau Spalt Select | 40 g | 50 min | 3.7 % |
| Aroma (end of boil) | Lublin (Lubelski) | 100 g | 1 min | 4 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------|-------|------|--------|------------|
| W34/70 | Lager | Dry | 23 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|---------------------|----------------|--------|---------|--------|
| Fining | Whirlfloc | 1.25 g | Boil | 10 min |
| Water Agent | Kwas fosforowy | 3 g | Mash | 90 min |
| Obniżenie pH do 5.7 | | | | |

Notes

- Fermentacja ciśnieniowa po zadaniu drożdży w temperaturze 19-20 C. Nabić ciśnienie 15 PSI.
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