

Nagroda

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **40**
- SRM **4.1**
- Style **Classic American Pilsner**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **6 %**
- Size with trub loss **19.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **22.8 liter(s)**

Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **55 C**, Time **5 min**
- Temp **66 C**, Time **15 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **17.5 liter(s)** of strike water to **60C**
- Add grains
- Keep mash **5 min** at **55C**
- Keep mash **15 min** at **66C**
- Keep mash **40 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **10.3 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (80%)	81 %	4
Grain	Viking Pale Ale malt	0.5 kg (10%)	80 %	5
Grain	Weyermann - Carapils	0.5 kg (10%)	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	35 g	50 min	8.8 %
Aroma (end of boil)	Lublin (Lubelski)	20 g	15 min	4 %
Dry Hop	Equinox	30 g	3 day(s)	13.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
S-23	Lager	Dry	11 g	Saflager