

Trzeźwość

- Gravity **20 BLG**
- ABV ---
- IBU **14**
- SRM **28.8**
- Style **Specialty Beer**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.7 liter(s)**
- Total mash volume **28.9 liter(s)**

Steps

- Temp **69 C**, Time **60 min**

Mash step by step

- Heat up **21.7 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **60 min** at **69C**
- Sparge using **11.9 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Maris Otter Crisp	6 kg (83%)	83 %	4
Grain	Weyermann - Melanoiden Malt	0.4 kg (5.5%)	81 %	70
Grain	Carafa III	0.13 kg (1.8%)	70 %	1300
Grain	Weyermann - Acidulated Malt	0.5 kg (6.9%)	80 %	4.5
Grain	Simpsons - Crystal Dark	0.2 kg (2.8%)	74 %	430

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	15 min	10 %
Boil	Hallertau Spalt Select	25 g	30 min	3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Culture	1000 g	Maciej Lab
wyeast - roeselare mix	Ale	Liquid	125 ml	wyeast