

bartoszkowy browarek

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **43**
- SRM **5.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **26.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.2 liter(s)**
- Total mash volume **23.4 liter(s)**

Steps

- Temp **62 C**, Time **50 min**
- Temp **72 C**, Time **15 min**
- Temp **77 C**, Time **5 min**

Mash step by step

- Heat up **18.2 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **50 min** at **62C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **13.8 liter(s)** of **76C** water or to achieve **26.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (76.9%)	81 %	4
Grain	Strzegom Monachijski typ II	1 kg (19.2%)	79 %	22
Grain	Płatki pszeniczne	0.2 kg (3.8%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	10 g	50 min	13.5 %
Boil	Simcoe	20 g	20 min	13.5 %
Boil	Mosaic	20 g	10 min	11 %
Boil	Mosaic	10 g	5 min	11 %
Boil	Centennial	30 g	1 min	11.3 %
Dry Hop	Centennial	30 g	4 day(s)	11.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	---