

ipa g

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **40**
- SRM **4.7**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **13 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **16.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.1 liter(s)**
- Total mash volume **14.8 liter(s)**

Steps

- Temp **69 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **11.1 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **60 min** at **69C**
- Keep mash **5 min** at **78C**
- Sparge using **9 liter(s)** of **76C** water or to achieve **16.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg (54.1%)	80 %	4
Grain	Briess - Pale Ale Malt	0.7 kg (18.9%)	80 %	7
Grain	Strzegom Wiedeński	0.5 kg (13.5%)	79 %	10
Grain	Pszeniczny	0.5 kg (13.5%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	15 g	60 min	13 %
Boil	Cascade PL	10 g	10 min	5.2 %
Boil	falconer s	10 g	10 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	10 g	fm