

i.p.a

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **48**
- SRM **6.2**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **10 %**
- Size with trub loss **28.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **34.4 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.6 liter(s)**
- Total mash volume **26.2 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **19.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **21.4 liter(s)** of **76C** water or to achieve **34.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5.5 kg (84%)	80 %	5
Grain	Strzegom Pszeniczny	0.8 kg (12.2%)	81 %	6
Grain	Strzegom Karmel 150	0.25 kg (3.8%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	ekuanot	20 g	60 min	13.1 %
Boil	ekuanot	25 g	15 min	13.1 %
Boil	ekuanot	40 g	5 min	13.1 %
Boil	ekuanot	60 g	1 min	13.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	---