

PIPA

- Gravity **15.2 BLG**
- ABV ---
- IBU **45**
- SRM **6.2**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **23.2 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up **17.4 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **14.1 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg (86.2%)	79 %	6
Grain	Słód owsiany Fawcett	0.5 kg (8.6%)	61 %	5
Grain	strzegom karmel 30	0.3 kg (5.2%)	70 %	40

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	30 min	11 %
Boil	Sybilla	30 g	15 min	6.5 %
Boil	Lublin (Lubelski)	30 g	15 min	4 %
Dry Hop	lunga	25 g	14 day(s)	11 %
Dry Hop	Marynka	25 g	14 day(s)	10 %
Dry Hop	Lublin (Lubelski)	25 g	14 day(s)	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	fermentis

Extras

Type	Name	Amount	Use for	Time
Spice	trawa cytrynowa	20 g	Boil	15 min