

#3.2 ok

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **50**
- SRM **6.7**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **75 min**
- Evaporation rate **10 %/h**
- Boil size **24.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **22.4 liter(s)**

Steps

- Temp **68 C**, Time **70 min**
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up **16.8 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **2 min** at **78C**
- Sparge using **13.4 liter(s)** of **76C** water or to achieve **24.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg (35.7%)	80 %	4
Grain	Strzegom Pale Ale	2 kg (35.7%)	79 %	6
Grain	Pszeniczny	0.6 kg (10.7%)	83 %	4
Grain	Karmelowy Czerwony	0.5 kg (8.9%)	75 %	60
Grain	Płatki owsiane	0.5 kg (8.9%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Iunga	20 g	60 min	11 %
Boil	Citra	15 g	15 min	13.5 %
Boil	Iunga	10 g	15 min	11 %
Boil	Amarillo	13 g	5 min	8.8 %
Boil	Iunga	20 g	5 min	11 %
Boil	Citra	15 g	3 min	13.5 %
Dry Hop	Summit	25 g	7 day(s)	17 %
Dry Hop	Cascade	25 g	7 day(s)	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Slant	300 ml	Fermentis