

Hazy APA Single hop simcoe

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **49**
- SRM **3.4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **20.1 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **20.3 liter(s)**

Steps

- Temp **65 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **15.8 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **40 min** at **65C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **8.8 liter(s)** of **76C** water or to achieve **20.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilznieński	3.5 kg (77.8%)	81 %	2.5
Grain	Pszeniczny	0.5 kg (11.1%)	85 %	4
Grain	Płatki pszeniczne	0.5 kg (11.1%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	15 g	60 min	24.5 %
Aroma (end of boil)	Simcoe	15 g	0 min	24.5 %
Whirlpool	Simcoe	30 g	0 min	12.4 %
Dry Hop	Simcoe	60 g	7 day(s)	12.4 %
Dry Hop	Simcoe	30 g	4 day(s)	12.4 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Slant	80 ml	Fermentum Mobile