Target Single Hop

- Gravity 13.3 BLG
- ABV **5.5** %
- IBU **55**
- SRM **4.9**
- Style English IPA

Batch size

- Expected quantity of finished beer 23.6 liter(s)
- Trub loss 5 %
- Size with trub loss 24.8 liter(s)
- · Boil time 65 min
- Evaporation rate 10 %/h
- Boil size 30 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19.2 liter(s)
- Total mash volume 25.6 liter(s)

Steps

- Temp **62 C**, Time **40 min** Temp **72 C**, Time **40 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 19.2 liter(s) of strike water to 69C
- Add grains
- Keep mash 40 min at 62C
- Keep mash 40 min at 72C
- Keep mash 5 min at 78C
- Sparge using 17.2 liter(s) of 76C water or to achieve 30 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) US	6 kg (93.6%)	79 %	4
Grain	Płatki owsiane	0.11 kg <i>(1.7%)</i>	85 %	3
Grain	BESTMALZ - Best Melanoidin	0.2 kg (3.1%)	75 %	71
Grain	Acid Malt	0.1 kg (1.6%)	58.7 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Target	30 g	60 min	11.5 %
Boil	Target	33 g	25 min	11.5 %
Whirlpool	Target	33 g	0 min	11.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
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Fining.	Iniala Mana	F	Deil	1E main
Fining	Irish Moss	5 g	Boil	12 min