Singel Hoop

- Gravity 12.6 BLG
- ABV **5.1** %
- IBU **38**
- SRM **4.9**
- Style American IPA

Batch size

- Expected quantity of finished beer 45 liter(s)
- Trub loss 10 %
- Size with trub loss 49.5 liter(s)
- · Boil time 60 min
- Evaporation rate 5 %/h
- Boil size 56.7 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 38.5 liter(s)
- Total mash volume 49.5 liter(s)

Steps

- Temp 58 C, Time 5 min
 Temp 63 C, Time 40 min
 Temp 73 C, Time 40 min
- Temp **79 C**, Time **1 min**

Mash step by step

- Heat up 38.5 liter(s) of strike water to 63.4C
- Add grains
- Keep mash 5 min at 58C
- Keep mash 40 min at 63C
- Keep mash 40 min at 73C
- Keep mash 1 min at 79C
- Sparge using 29.2 liter(s) of 76C water or to achieve 56.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	10 kg (90.9%)	80 %	7
Grain	Strzegom Wiedeński	0.6 kg <i>(5.5%)</i>	79 %	10
Grain	Carahell	0.2 kg <i>(1.8%)</i>	77 %	26
Grain	Pszeniczny	0.2 kg <i>(1.8%)</i>	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	60 min	11 %
Boil	Simcoe	20 g	30 min	13.2 %
Boil	Simcoe	20 g	15 min	13.2 %
Boil	Simcoe	20 g	10 min	13.2 %
Boil	Simcoe	20 g	5 min	13.2 %
Dry Hop	Simcoe	40 g	5 day(s)	13.2 %

Yeasts

Name Type	Form	Amount	Laboratory
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us-05	Ale	Dry	25 g	
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Extras

Туре	Name	Amount	Use for	Time
Water Agent	gips	8 g	Mash	60 min