Session IPA

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **71**
- SRM **4.6**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 12.5 liter(s)
- Trub loss 4 %
- Size with trub loss 13 liter(s)
- Boil time 70 min
- Evaporation rate 20 %/h
- Boil size 16.5 liter(s)

Mash information

- Mash efficiency 79 %
- Liquor-to-grist ratio 3.4 liter(s) / kg
- Mash size 8.9 liter(s)
- Total mash volume 11.5 liter(s)

Steps

- Temp **66 C**, Time **40 min** Temp **72 C**, Time **40 min**
- Temp 76 C, Time 10 min

Mash step by step

- Heat up 8.9 liter(s) of strike water to 72.8C
- Add grains
- Keep mash 40 min at 66C
- Keep mash 40 min at 72C
- Keep mash 10 min at 76C
- Sparge using 10.2 liter(s) of 76C water or to achieve 16.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	2.5 kg <i>(95.2%)</i>	79 %	6
Grain	Carahell	0.125 kg (4.8%)	77 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	15 g	60 min	16.8 %
Boil	Centennial	10 g	15 min	9.7 %
Boil	Simcoe	10 g	15 min	13.2 %
Aroma (end of boil)	Centennial	10 g	0 min	9.7 %
Aroma (end of boil)	Simcoe	10 g	0 min	13.2 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	5 g	0 min	16.8 %
Dry Hop	Centennial	30 g	5 day(s)	10.5 %
Dry Hop	Simcoe	30 g	5 day(s)	13.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	5 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Water Agent	gips piwowarski	2 g	Mash	60 min