#11 APA

- Gravity 13.3 BLG
- ABV **5.5** %
- IBU 42
- SRM **4**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 65 min
- Evaporation rate 10 %/h
- Boil size 26.6 liter(s)

Mash information

- Mash efficiency 76 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 19.3 liter(s)
- Total mash volume 24.8 liter(s)

Steps

- Temp **64 C**, Time **60 min** Temp **76 C**, Time **0 min**
- Temp 72 C, Time 15 min

Mash step by step

- Heat up 19.3 liter(s) of strike water to 70.3C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 15 min at 72C
- Keep mash 0 min at 76C
- Sparge using 12.8 liter(s) of 76C water or to achieve 26.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4.5 kg (81.8%)	80 %	4
Grain	Strzegom Pszeniczny	1 kg (18.2%)	81 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	20 g	60 min	12.9 %
Whirlpool	Citra	20 g	20 min	12.9 %
Whirlpool	Mosaic	20 g	20 min	12.3 %
Dry Hop	Citra	30 g	5 day(s)	12.9 %
Dry Hop	Mosaic	30 g	5 day(s)	12.3 %

Yeasts

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

Extras

Type	Name	Amount	Use for	Time
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Fining	Mech Irlandzki	1 5 a	Boil	1 15 MIN
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