CLEAN APA

- Gravity 11.7 BLG
- ABV ----
- IBU **32**
- SRM **5.8**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.8 liter(s)
- Total mash volume 18.4 liter(s)

Steps

- Temp 66 C, Time 60 min
 Temp 72 C, Time 15 min
- Temp 76 C, Time 0 min

Mash step by step

- Heat up 13.8 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 15 min at 72C
- Keep mash 0 min at 76C
- Sparge using 18.6 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	2.5 kg <i>(54.3%)</i>	79 %	6
Grain	Pilzneński	0.6 kg <i>(13%)</i>	81 %	4
Grain	Pszeniczny	1 kg <i>(21.7%)</i>	85 %	4
Grain	Weyermann - Carabelge	0.2 kg <i>(4.3%)</i>	80 %	35
Grain	Strzegom Monachijski typ I	0.3 kg <i>(6.5%)</i>	79 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	20 g	45 min	10.5 %
Boil	Simcoe	10 g	10 min	13.2 %
Boil	Jarrylo	15 g	5 min	15 %
Boil	Simcoe	15 g	0 min	13.2 %
Boil	Jarrylo	15 g	0 min	15 %
Dry Hop	Jarrylo	40 g	5 day(s)	15 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	11 g	Mangrove Jack's