APA

- Gravity 11.7 BLG
- ABV ---
- IBU 40
- SRM **6**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 %
- Size with trub loss 26.4 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 20 liter(s)
- Total mash volume 25 liter(s)

Steps

- Temp **62 C**, Time **30 min** Temp **68 C**, Time **30 min**
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 20 liter(s) of strike water to 67.3C
- Add grains
- Keep mash 30 min at 62C
- Keep mash 30 min at 68C
- Keep mash 5 min at 76C
- Sparge using 15.4 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (60%)	80 %	6
Grain	Maris Otter Crisp	0.5 kg <i>(10%)</i>	83 %	6
Grain	Strzegom Wiedeński	1 kg (20%)	79 %	10
Grain	Strzegom Pszeniczny	0.3 kg <i>(6%)</i>	81 %	6
Grain	Cara Gold Castlemalting	0.2 kg <i>(4%)</i>	78 %	120

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	25 g	30 min	15.5 %
Boil	Mosaic	25 g	5 min	10 %
Boil	Centennial	25 g	5 min	10.5 %
Boil	Simcoe	25 g	0 min	13.2 %
Dry Hop	Mosaic	25 g	5 day(s)	10 %
Dry Hop	Simcoe	25 g	5 day(s)	13.2 %
Dry Hop	Centennial	25 g	5 day(s)	10.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	10 g	Mangrove Jack's