American Cascade Pale Ale

- Gravity 10.5 BLG
- ABV 4.2 %
- IBU **42**
- SRM **7.7**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 23 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 27.9 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.4 liter(s) / kg
- Mash size 14.6 liter(s)
- Total mash volume 18.9 liter(s)

Steps

- Temp 68 C, Time 70 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 14.6 liter(s) of strike water to 75.1C
- Add grains
- Keep mash 70 min at 68C
- Keep mash 5 min at 78C
 Sparge using 17.6 liter(s) of 76C water or to achieve 27.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg <i>(46.5%)</i>	80 %	5
Grain	Strzegom Wiedeński	1 kg (23.3%)	79 %	10
Grain	Monachijski	1 kg (23.3%)	80 %	16
Grain	Strzegom Karmel 150	0.3 kg (7%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	40 g	60 min	6 %
Boil	Cascade	10 g	30 min	6 %
Boil	Cascade	10 g	15 min	6 %
Boil	Cascade	25 g	10 min	6 %
Boil	Cascade	10 g	5 min	6 %
Aroma (end of boil)	Cascade	10 g	1 min	6 %
Dry Hop	Cascade	25 g	5 day(s)	6 %

Yeasts

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