### **Brian**

- Gravity 14.5 BLG
- ABV **6** %
- IBU 37
- SRM **4.5**
- Style American Pale Ale

## **Batch size**

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 15.2 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 10.5 liter(s)
- Total mash volume 14 liter(s)

# **Steps**

- Temp 72 C, Time 60 min
  Temp 80 C, Time 10 min

# Mash step by step

- Heat up 10.5 liter(s) of strike water to 80.7C
- Add grains
- Keep mash 60 min at 72C
- Keep mash 10 min at 80C
- Sparge using 8.2 liter(s) of 76C water or to achieve 15.2 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg <i>(85.7%)</i>	80 %	5
Grain	Weyermann - Carapils	0.5 kg <i>(14.3%)</i>	78 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Target	10 g	60 min	10.5 %
Boil	Columbus/Tomahawk/Zeus	20 g	10 min	15.5 %
Dry Hop	Columbus/Tomahawk/Zeus	30 g	7 day(s)	15.5 %
Dry Hop	Galaxy	30 g	3 day(s)	15 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	12 g	Safale

#### **Extras**

Туре	Name	Amount	Use for	Time
Herb	kawa ziarnista skruszona	200 g	Secondary	2 day(s)

Flating	ckárka namarańczy	100 -	Dail	10
Flavor	i Skurka Dumaranczy	l 100 a	l Boil	l 10 min