# Apa

- Gravity 14 BLG
- ABV **5.8** %
- IBU **34**
- SRM 3.6
- Style American IPA

#### **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 24 liter(s)

### **Steps**

- Temp 68 C, Time 45 min
  Temp 72 C, Time 15 min
- Temp 78 C, Time 0 min

# Mash step by step

- Heat up 18 liter(s) of strike water to 76C
- Add grains
- Keep mash 45 min at 68C
- Keep mash 15 min at 72C
- Keep mash 0 min at 78C
- Sparge using 19.7 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
	Weyermann - Bohemian Pilsner Malt	5 kg <i>(83.3%)</i>	93 %	4
Grain	Cara-Pils/Dextrine	1 kg (16.7%)	95 %	4

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	15.5 %
Boil	Citra	9 g	20 min	14.5 %
Boil	Citra	9 g	5 min	14.5 %

#### **Yeasts**

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