# **Band of Brothers**

- Gravity 12.4 BLG
- ABV 5 %
- IBU **30**
- SRM 10.5
- Style American Amber Ale

### **Batch size**

- Expected quantity of finished beer 18 liter(s)
- Trub loss 5 %
- Size with trub loss 18.9 liter(s)
- · Boil time 60 min
- Evaporation rate 6 %/h
- Boil size 23.6 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 17.3 liter(s)
- Total mash volume 22.3 liter(s)

# **Steps**

- Temp 64 C, Time 35 min
  Temp 72 C, Time 45 min
- Temp 76 C, Time 10 min

# Mash step by step

- Heat up 17.3 liter(s) of strike water to 70.3C
- Add grains
- Keep mash 35 min at 64C
- Keep mash 45 min at 72C
- Keep mash 10 min at 76C
- Sparge using 11.3 liter(s) of 76C water or to achieve 23.6 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) UK	3.8 kg <i>(76.8%)</i>	78 %	6
Grain	Caramel/Crystal Malt - 10L	0.2 kg <i>(4%)</i>	75 %	20
Grain	Barley, Flaked	0.15 kg <i>(3%)</i>	70 %	4
Grain	Caramunich Malt	0.8 kg <i>(16.2%)</i>	%	110.3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	20 g	60 min	5.1 %
Boil	Mosaic	20 g	20 min	10 %
Boil	Fuggles	20 g	10 min	4.5 %
Boil	Fuggles	10 g	5 min	4.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale