# **GROWLER** [BrewDog]

- Gravity 12.5 BLG
- ABV ----
- IBU 42
- SRM 8
- Style Classic American Pilsner

## **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

## **Mash information**

- Mash efficiency 83 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.1 liter(s)
- Total mash volume 17.5 liter(s)

#### **Steps**

• Temp 65 C, Time 90 min

## Mash step by step

- Heat up 13.1 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 90 min at 65C
- Sparge using 17.7 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4 kg (91.3%)	79 %	6
Grain	Weyerman Carahell	0.25 kg <i>(5.7%)</i>	77 %	26
Grain	Strzegom Karmel 150	0.13 kg <i>(3%)</i>	75 %	150

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	8 g	60 min	12 %
Boil	Citra	62 g	10 min	12 %
Dry Hop	Citra	30 g	3 day(s)	12 %