

# ban

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **18**
- SRM **4.1**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **5.5 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **6.7 liter(s)**

## Mash information

- Mash efficiency **90 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **3 liter(s)**
- Total mash volume **4 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **3 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **4.7 liter(s)** of **76C** water or to achieve **6.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	1 kg (100%)	80 %	7

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Puławski	5 g	60 min	6 %
Aroma (end of boil)	Puławski	5 g	10 min	6 %