

# hop hammer wariacja

- Gravity **19.8 BLG**
- ABV **8.7 %**
- IBU **97**
- SRM **7.2**
- Style **Imperial IPA**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.5 liter(s)**
- Boil time **90 min**
- Evaporation rate **5 %/h**
- Boil size **32.3 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **27.9 liter(s)**
- Total mash volume **37.2 liter(s)**

## Steps

- Temp **66 C**, Time **90 min**

## Mash step by step

- Heat up **27.9 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **90 min** at **66C**
- Sparge using **13.7 liter(s)** of **76C** water or to achieve **32.3 liter(s)** of wort

## Fermentables

| Type  | Name                   | Amount        | Yield  | EBC |
|-------|------------------------|---------------|--------|-----|
| Grain | Briess - Pilsen Malt   | 5 kg (48.5%)  | 80.5 % | 2   |
| Grain | Briess - Pale Ale Malt | 4 kg (38.8%)  | 80 %   | 6   |
| Sugar | cukier                 | 1 kg (9.7%)   | 100 %  | 1   |
| Grain | Weyermann Caramunich 3 | 0.3 kg (2.9%) | 76 %   | 150 |

## Hops

| Use for | Name     | Amount | Time     | Alpha acid |
|---------|----------|--------|----------|------------|
| Boil    | Magnum   | 100 g  | 90 min   | 13.5 %     |
| Boil    | Amarillo | 50 g   | 1 min    | 9.3 %      |
| Boil    | Simcoe   | 50 g   | 1 min    | 13.3 %     |
| Boil    | Cltra    | 50 g   | 1 min    | 13 %       |
| Dry Hop | Amarillo | 50 g   | 7 day(s) | 9.3 %      |
| Dry Hop | Simcoe   | 50 g   | 7 day(s) | 13.2 %     |

## Yeasts

| Name  | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| US-05 | Ale  | Dry  | 22 g   | ---        |

## Notes

- Przepis Jamil'a Zainsheff'a z książki Brewing classic styles.

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

W planie do uwarzenia jak tylko pojawią się amerykańce z 2016 roku.  
wariacja, odjechałem z chmielami.  
*Jan 4, 2017, 10:00 PM*