

# American Stout na Klarstein'ie

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **46**
- SRM **42.3**
- Style **American Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **75 min**
- Evaporation rate **13 %/h**
- Boil size **26.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.4 liter(s)**
- Total mash volume **27.2 liter(s)**

## Steps

- Temp **65 C**, Time **40 min**
- Temp **72 C**, Time **30 min**

## Mash step by step

- Heat up **20.4 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **40 min** at **65C**
- Keep mash **30 min** at **72C**
- Sparge using **13.1 liter(s)** of **76C** water or to achieve **26.7 liter(s)** of wort

## Fermentables

| Type  | Name                                   | Amount        | Yield | EBC  |
|-------|--|---------------|-------|------|
| Grain | Strzegom Pale Ale Viking Malt          | 5 kg (73.5%)  | 79 %  | 5    |
| Grain | Strzegom Monachijski typ I Viking Malt | 1 kg (14.7%)  | 79 %  | 16   |
| Grain | Strzegom Barwiący                      | 0.3 kg (4.4%) | 68 %  | 1400 |
| Grain | Jęczmień prażony Viking Malt Strzegom  | 0.5 kg (7.4%) | 55 %  | 985  |

## Hops

| Use for             | Name   | Amount | Time     | Alpha acid |
|---------------------|--------|--------|----------|------------|
| Boil                | Magnum | 30 g   | 60 min   | 11.5 %     |
| Aroma (end of boil) | Citra  | 20 g   | 10 min   | 12.5 %     |
| Aroma (end of boil) | Citra  | 20 g   | 5 min    | 12.5 %     |
| Whirlpool           | Citra  | 10 g   | 0 min    | 12.5 %     |
| Dry Hop             | Citra  | 50 g   | 5 day(s) | 12.5 %     |

## Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

|             |     |     |        |        |
|-------------|-----|-----|--------|--------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |
|-------------|-----|-----|--------|--------|

## Notes

- Klarstein M.

Zacieranie 1800 W  
Gotowanie 1500 W  
*Jan 7, 2021, 1:51 PM*